



EKSELANS BY ITS

# GENERAL CATALOG

ENTER THE EK WORLD  
EXCLUSIVELY FOR PROFESSIONALS

2025  
v.2



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## ABOUT US



**Ekselans by ITS (EK)** is the brand of ITS Partner, a Spanish industrial company that integrates four specialized firms focused on R&D activities, software engineering, electronic design, and the manufacturing of professional solutions for the telecommunications sector.



**SEDE CENTRAL**  
Sant Cugat del Vallès, Barcelona



**SEDE MADRID**  
Madrid



**DELEGACIÓN CANARIAS**  
Las Palmas G.C.



**CENTRO LOGÍSTICO**  
Sabadell, Barcelona



**OFICINAS I+D**  
-Madrid  
-Zaragoza  
-San Sebastián  
-Las Palmas G.C.



**LÍNEAS DE MONTAJE Y PRODUCCIÓN**  
-Barcelona  
- Las Palmas G.C.

Since 2024, **ITS Partner** has been part of **CAE Groupe**, a leading French group in cabling and connectivity solutions, operating in diverse markets such as smart buildings (both commercial and residential), industrial, maritime and offshore, nuclear and infrastructure, military, healthcare, and entertainment.

Recently, the Spanish company **OPENETICS**, has also joined the group, specializing in the manufacturing of structured cabling solutions, fiber optics, rack cabinets, and PDUs, meeting the most demanding international quality standards. To learn more about **OPENETICS** product range, you can check their catalog at [www.openetics.com](http://www.openetics.com).



COMPLEMENTING EXPERTISE,  
MULTIPLYING IMPACT



**OPENETICS**

## WHY CHOOSE US?

- |                                                                                                                                                                               |                                                                                                                                                                           |                                                                                                                                                      |                                                                                                                                                                                      |                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>01</b><br><br>European technology company with <b>a significant R&amp;D investment</b>    | <b>02</b><br><br>Face-to-face and online training programs ( <b>EK Webinar Academy</b> ) | <b>03</b><br><br>Best-in-class <b>technical support</b>             | <b>04</b><br><br>Commercial approach exclusively <b>to professionals</b>                          | <b>05</b><br><br>Continuous business growth opportunities with <b>new technological solutions</b>    |
| <b>06</b><br><br>Wide range of solution and real alternative <b>to others market players</b> | <b>07</b><br><br>Excellent <b>quality/price</b> relationship and great retail margins    | <b>08</b><br><br>Continuous and qualified <b>commercial support</b> | <b>09</b><br><br><b>Recognized reliability</b> throughout hundreds of <b>implemented projects</b> | <b>10</b><br><br>Full process support during <b>new projects deployment</b> . "Zero problems" policy |

## THE EK RANGE

- |                                                                                                                                               |                                                                                                                                              |                                                                                                                                                                              |                                                                                                                                                          |                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>01</b><br><br>SMATV                                       | <b>02</b><br><br>Fiber and LAN                              | <b>03</b><br><br>Receivers, modulators and remote control extenders                         | <b>04</b><br><br>CM headend / transmodulators, encoders and streamers | <b>05</b><br><br>Hospitality and social health/ iptv servers/ chromecasting/ OTT and operators |
| <b>06</b><br><br>CATV/HFC optical transmission-reception   | <b>07</b><br><br>DTT+SAT transmission over fiber optics   | <b>08</b><br><br>GPON - solutions for hospitality, residential, industry and smart cities | <b>09</b><br><br>Signal Meter                                       | <b>10</b><br><br>EKOAX I Ethernet over Coaxial                                               |
| <b>11</b><br><br>Wifi, switches, 4g routers and lan cables | <b>12</b><br><br>HOTSPOT captive portal and network audit | <b>13</b><br><br>Sensors, IoT                                                             | <b>14</b><br><br>Video door entry and access control systems        |                                                                                                                                                                                   |

## BUSINESS AREAS

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| <b>01</b><br><br><b>SMATV distribution, fiber and data</b> in residential and building sector     | <b>02</b><br><br><b>Video Door Entry and Access Control</b>       | <b>03</b><br><br><b>Data network and television integration. Professional IPTV and OTT servers</b> | <b>04</b><br><br><b>High-speed communication networks in tertiary sector</b>             | <b>05</b><br><br><b>High-speed communication networks for Industry 4.0</b> |
| <b>06</b><br><br><b>Global telecommunication solutions and multiservice in hospitality sector</b> | <b>07</b><br><br><b>Advanced network systems for Smart Cities</b> | <b>08</b><br><br><b>Entertainment and remote assistance solutions in Healthcare sector</b>         | <b>09</b><br><br><b>Professional sensing for industrial and residential environments</b> |                                                                                                                                                                 |

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Ek states that the products of this price list are those that appear in the technical data sheets of the same. Ek declines responsibility that could be derived from possible errors or omissions.

Ek reserves the right to make technical updates or change product specifications without prior notice, with the aim of improving the characteristics or reliability of the products.

The technical sheets, manuals, images and product declarations of conformity are available at **[www.ek.plus](http://www.ek.plus)**

**E** DISCONTINUED

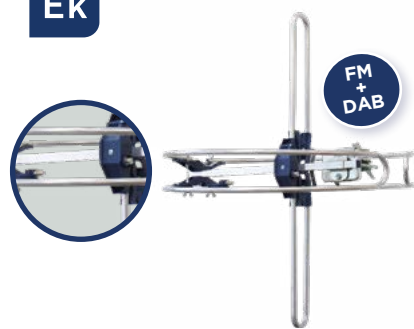
**N** NEW



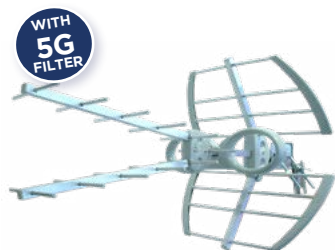
# 01

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SMATV



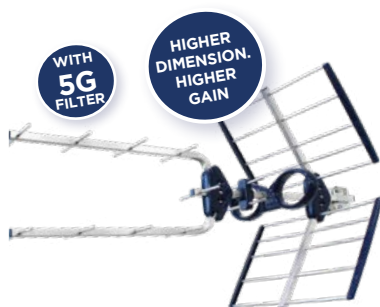
FDAB BLUE



EK 70 L2



EK BLUE

Ekblue<sup>MAX</sup>

| Code | Reference | Description | Packaging unit quantity |
|------|-----------|-------------|-------------------------|
|------|-----------|-------------|-------------------------|

## OUTDOOR ANTENNAS

## FM/DAB RADIO ANTENNAS

|        |        |                                                                                        |        |
|--------|--------|----------------------------------------------------------------------------------------|--------|
| 011001 | FM 1   | FM antenna (87,5 - 108 MHz) omnidirectional with F connector. G: 1dB                   | 6/24   |
| 011002 | FM IN  | FM antenna (87,5 - 108 MHz) omnidirectional with F connector. G: 1dB. Single packaging | 1/6/24 |
| 012001 | DAB 1  | DAB antenna (195 - 223 MHz) omnidirectional with F connector G: 1dB                    | 6/30   |
| 012002 | DAB IN | DAB antenna (195 - 223 MHz) omnidirectional with F connector G: 1dB. Single packaging  | 1/6/24 |

## BLUE FM/DAB PREFIX + Easy U

|        |           |                                                                                          |      |
|--------|-----------|------------------------------------------------------------------------------------------|------|
| 012003 | FDAB BLUE | FM/DAB antenna (87,5 - 108 MHz/195 - 223 MHz) with two independent F-connectors. G: 1dB. | 6/24 |
|--------|-----------|------------------------------------------------------------------------------------------|------|

## UHF ANTENNAS - easyU - 5G

|        |            |                                                                                                              |       |
|--------|------------|--------------------------------------------------------------------------------------------------------------|-------|
| 013012 | EK MINI L2 | UHF antenna LTE2 (470 - 694 MHz) with F connector. G: 12dB. High rejection 5G filter. Length 455 mm          | 6/144 |
| 013015 | EK 70 L2   | UHF antenna LTE2 (470 - 694 MHz) with F connector. G: 14,5dB. High rejection 5G filter. Length 745 mm        | 6/144 |
| 013031 | DAP 22     | Active / passive dipole compatible with EK MINI / EK 70. 22dB gain in active mode. Power supply 12 to 24Vdc. | 3     |

## UHF ANTENNAS - PRE-FIX + easyU - 5G

|        |             |                                                                                                         |       |
|--------|-------------|---------------------------------------------------------------------------------------------------------|-------|
| 013023 | EK BLUE     | UHF antenna LTE2 (470-694 MHz) with F connector. G: 17 dB. High rejection 5G filter. Length 740 mm      | 6/120 |
| 013027 | EK BLUE IN  | UHF antenna LTE2 (470-694 MHz) with F connector. G: 17 dB. High rejection 5G filter. Individual packing | 1/72  |
| 013033 | EK BLUE MAX | UHF antenna LTE2 (470 - 694MHz) with F-connector G: 18.5dB. High rejection 5G filter. Length 980 mm     | 6/96  |
| 013108 | DA BLUE     | Active dipole + 20 dB for EK Blue. Power supply 12 to 24Vdc                                             | 3     |

## Ekblue

**PRE-FIX:** NEW PATENTED MOUNTING FOR A MUCH EASIER, COMFORTABLE AND SAFER INSTALLATION

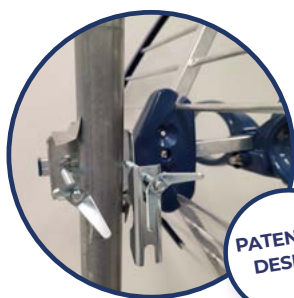
**EK BLUE:** toolless assembling in 5 clicks. Hyperbolic reflectors for an exceptional gain

**PRE-FIX:** holds the antenna on the pole mast by it's own weight

**easyU** quick wing nut slide-on for an easy fixing



Watch how easy is to assemble the Ek Blue



Watch how Pre-fix will help you



Watch how fast is easyU

## UHF ANTENNAS - PRE-FIX + easyU - 5G

|        |                        |                                                                                                                                                                                 |       |
|--------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 013034 | EK BLUE AP<br><b>N</b> | UHF active / passive antenna LTE2(470 - 694MHz) with F Connector. G: Active: 38dB / Passive: 16dB. High rejection 5G filter. 12-24Vdc power supply. Power adapter not included. | 6/120 |
| 013028 | EK BLUE ACTIVE         | UHF active antenna LTE2 (470-694 MHz) with F connector. G: 38 dB. High rejection 5G filter. 12 - 24 Vdc power supply (not included)                                             | 6/120 |
| 013029 | EK BLUE ACTIVE IN      | UHF active antenna LTE2 (470-694 MHz) with F connector. G: 38 dB. High rejection 5G filter. 12 - 24 Vdc power supply (not included). Individual packing                         | 1/72  |
| 013030 | KITEKBLUEACTIVE        | UHF active antenna LTE2 (470-694 MHz) with F connector. G: 38 dB. High rejection 5G filter. 12 - 24 Vdc power supply. FA QCF 242 power supply included. Individual packing      | 1/72  |



EK BLUE ACTIVE IN



ODS 60 / ODS 82

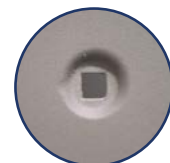


OD60R\* / OD 80R / OD 80AL

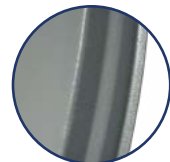
\*Single clamp



ODS 60 / ODS 82 AZ/EL mount



Square hole and carriage bolt



Triple bend reinforced edge



OD 100 AZ/EL mount

# Ekblue

active ▶

To all existing mechanical advantages of the EK Blue model, a revolutionary amplifier integrated into the antenna dipole is now added. Its low noise figure and its very high output level allows simultaneous reception of weak signals with very powerful ones without intermodulation, assuring an optimal signal quality. Its wide working range makes it 100% operational even with possible reception level variations. For any received signal in passive mode between 37dBuV and 85dBuV, EK Blue active will add a real gain of 20dB without any degradation of the received quality (MER). It includes an high rejection 5G filter.

## SATELLITE DISHES

## STEEL SERIE

|        |            |                                                                                                                    |        |
|--------|------------|--------------------------------------------------------------------------------------------------------------------|--------|
| 021045 | ODS 60-1   | Satellite offset dish 60 cm. G: 36,67dB (12,5 GHz). RAL 7035 Color. Individual packaging                           | 1/20   |
| 021046 | ODS 60-2   | Satellite offset dish 60 cm. G: 36,67dB (12,5 GHz). RAL 7035 Color. Box of 2pcs                                    | 2/40   |
| 021042 | ODS 60-10  | Satellite offset dish 60 cm. G: 36,67dB (12,5 GHz). RAL 7035 Color. Box of 10pcs                                   | 10/100 |
| 021006 | OD 60R-6   | Satellite offset dish 60 cm with reinforced AZ/EL mount. G: 36,67dB (12,5 GHz). RAL 7035 Color. Box of 6 pcs.      | 6      |
| 021038 | OD 60R-100 | Satellite offset dish 60 cm with reinforced AZ/EL mount. G: 36,67dB (12,5 GHz). RAL 7035 Color. Pallet of 100 pcs. | 100    |
| 021007 | OD 80R-6   | Satellite offset dish 80 cm with reinforced AZ/EL mount. G: 38,52dB (12,5 GHz). RAL 7035 Color. Box of 6 pcs.      | 6      |
| 021039 | OD 80R-100 | Satellite offset dish 80 cm with reinforced AZ/EL mount. G: 38,52dB (12,5 GHz). RAL 7035 Color. Pallet of 100 pcs. | 100    |
| 021047 | ODS 82-1   | Satellite offset dish 82 cm G: 38,52dB (12,5 GHz). RAL 7035 Color. Individual packaging                            | 1/15   |
| 021048 | ODS 82-2   | Satellite offset dish 82 cm G: 38,52dB (12,5 GHz). RAL 7035 Color. Box of 2 pcs                                    | 2/30   |
| 021026 | ODS 82-10  | Satellite offset dish 82 cm G: 38,52dB (12,5 GHz). RAL 7035 Color. Box of 10 pcs                                   | 10/100 |
| 021049 | ODS 100-1  | Satellite offset dish 100 cm G: 40,32dB (12,5 GHz). RAL 7035 Color. Individual packaging                           | 1/10   |
| 021050 | ODS 100-2  | Satellite offset dish 100 cm G: 40,32dB (12,5 GHz). RAL 7035 Color. Box of 2 pcs                                   | 2/20   |
| 021051 | ODS 100-3  | Satellite offset dish 100 cm G: 40,32dB (12,5 GHz). RAL 7035 Color. Box of 3 pcs                                   | 3/30   |
| 021008 | OD 100-3   | Satellite offset dish 100 cm G: 40,32dB (12,5 GHz). Reinforced AZ/EL mount. RAL 7035 Color. Box of 3 pcs           | 3      |
| 021037 | OD 100-25  | Satellite offset dish 100 cm G: 40,32dB (12,5 GHz). Reinforced AZ/EL mount. RAL 7035 Color. Pallet of 25 pcs       | 25     |
| 021010 | MFC 2      | Multifeed for 2 LNBs                                                                                               | 10     |

\* Unit price

## ALUMINIUM SERIE

|        |            |                                                                                                               |   |
|--------|------------|---------------------------------------------------------------------------------------------------------------|---|
| 021031 | OD 80 AL 6 | Satellite offset dish 80 cm with reinforced AZ/EL mount. G: 38,52dB (12,5 GHz). RAL 7035 Color. Box of 6 pcs. | 6 |
|--------|------------|---------------------------------------------------------------------------------------------------------------|---|

## SATELLITE DISH + LNB KIT

|        |               |                                                                                                           |       |
|--------|---------------|-----------------------------------------------------------------------------------------------------------|-------|
| 021055 | KIT ODS 60-1  | Satellite offset dish 60 cm. G: 36,67dB (12,5 GHz). RAL 7035 Color. LNB 11 included. Individual packaging | 1/20  |
| 021056 | KIT ODS 60-10 | Satellite offset dish 60 cm. G: 36,67dB (12,5 GHz). RAL 7035 Color. LNB 11 included. Box of 10 pcs        | 10/40 |

\* Precio por unidad



M 250



GT



SP 32 / SP 32G / SP 40F



SP 40



LNB 11P



LNB 21P



LNB 21 MG

## MECHANICAL ACCESSORIES

## MASTS

|        |          |                                        |   |
|--------|----------|----------------------------------------|---|
| 025026 | M 120-35 | Stackable mast 1,2 m long, 35 x 1,5 mm | 6 |
| 025027 | M 120-40 | Stackable mast 1,2 m long, 40 x 2 mm   | 4 |
| 025015 | M 250    | Stackable mast 2,5 m 35 x 1,5 mm       | 6 |

## CLAMPS AND FLANGES

|        |       |                                                       |    |
|--------|-------|-------------------------------------------------------|----|
| 025016 | GT    | L-shape bracket for studs. M8 flange                  | 20 |
| 025017 | GTP   | 350mm support bracket with plate for studs. M8 flange | 25 |
| 025004 | MR 8  | Reinforced single clamp. Maximum diameter 68mm        | 50 |
| 025025 | ACH   | Chimney support bracket                               | 15 |
| 025029 | K ACH | Chimney protection kit for ACH support bracket        | 15 |

## TOWERS

|        |        |                                              |      |
|--------|--------|----------------------------------------------|------|
| 025018 | BFT    | Tower Fixed base 180mm                       | 1/4  |
| 025019 | GR     | Straight threaded hook (single unit)         | 1/24 |
| 025020 | TIT 25 | Intermediate tower section 2.5m 180mm        | 1    |
| 025021 | TFT 25 | Final tower section 2.5m 180mm               | 1    |
| 025030 | TFT 12 | Final tower section 1.2m 180mm               | 1    |
| 025024 | KVT    | Kit 25 m steel cable + cable ties + coupling | 1    |

## SUPPORTS

|        |        |                                                                                                       |    |
|--------|--------|-------------------------------------------------------------------------------------------------------|----|
| 025010 | SP 32  | Wall-mount support, zinc-plated steel. Diameter 32 mm. For OD 60/ODS 60                               | 10 |
| 025012 | SP 32G | Hot galvanized wall support. Diameter 32mm. For OD 60/ODS 60                                          | 10 |
| 025001 | SP 35  | Wall-mount support, zinc-plated steel, reinforced base. Diameter 35 mm. For OD 60/ODS 60/OD 80/ODS 82 | 20 |
| 025011 | SP 40F | Wall-mount support, zinc-plated steel. Diameter 40 mm. For OD 80/ODS 82                               | 10 |
| 025002 | SP 40  | Rotating wall-mount support, sendzimir tube. Diameter 40 mm. For OD 60/ODS 60/ OD 80/ODS 82           | 6  |
| 025004 | MR 8   | Mast / balcony mount bracket for SP 32 / SP 32G / SP 35 / SP 40F / SP 40                              | 50 |
| 025003 | SP 50  | Wall-mount support, hot-galvanised steel. Diameter 50 mm. For OD 100/ODS 100                          | 4  |
| 025007 | SS 60  | Hot galvanized ground support. 60 mm diameter                                                         | 1  |
| 025013 | BFS    | Fixed base for SS 60                                                                                  | 1  |

## LNB'S

## PLL SERIES WITH LTE/4G FILTER

|        |           |                                                                                                                                                               |       |
|--------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 022028 | LNB 11P   | Single LNB. Input frequencies 10,7 - 11,7 GHz (L.O.: 9,75 GHz) / 11,7 - 12,75 GHz (L.O.: 10,6 GHz)                                                            | 1/100 |
| 022029 | LNB 21P   | Twin LNB. Input frequencies 10,7 - 11,7 GHz (L.O.: 9,75 GHz) / 11,7 - 12,75 GHz (L.O.: 10,6 GHz)                                                              | 1/50  |
| 022030 | LNB 40P   | Quad LNB. Input frequencies 10,7 - 11,7 GHz (L.O.: 9,75 GHz) / 11,7 - 12,75 GHz (L.O.: 10,6 GHz)                                                              | 1/50  |
| 022026 | LNB 21 MG | Multidegree MONOBLOCK LNB (adjustable). 1 output. Input frequencies 10,7 - 11,7GHz (L.O.: 9.75GHz) / 11.7 -12.75GHz (L.O.: 10.6GHz). Integrated DiSEqC switch | 10/30 |

## DRO SERIES WITH LTE 4G FILTER AND DOUBLE SHIELD

DRO SERIE  
UNMATCHED  
QUALITY

|        |                    |                                                                                                                                                                       |        |
|--------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 022017 | DRO 10 G           | Single LNB, DRO Technology. Input frequencies 10,7 - 11,7 GHz (L.O.: 9,75 GHz) / 11,7 - 12,75 GHz (L.O.: 10,6 GHz)                                                    | 10/100 |
| 022018 | DRO 20 G           | Twin LNB, DRO Technology. Input frequencies 10,7 - 11,7 GHz (L.O.: 9,75 GHz) / 11,7 - 12,75 GHz (L.O.: 10,6 GHz)                                                      | 10/60  |
| 022014 | DRO 40 G           | Quad LNB, DRO Technology. Input frequencies 10,7 - 11,7 GHz (L.O.: 9,75 GHz) / 11,7 - 12,75 GHz (L.O.: 10,6 GHz)                                                      | 10/60  |
| 022019 | DRO 80 G           | Octo LNB, DRO Technology. Input frequencies 10,7 - 11,7 GHz (L.O.: 9,75 GHz) / 11,7 - 12,75 GHz (L.O.: 10,6 GHz)                                                      | 10/40  |
| 022009 | DRO 21<br><b>E</b> | LNB MONOBLOCK 6° universal 1 output. DRO technology. Input frequencies 10,7 - 11,7 GHz (L.O.: 9,75 GHz) / 11,7 - 12,75 GHz (L.O.: 10,6 GHz). Integrated DiSEqC switch | 1/50   |



DRO 40G / DRO 44G



DRO 80G



LNB WB



LNB 40P · LNB 44P

## SERIE SATCR - DCCS

|        |                          |                                                                         |      |
|--------|--------------------------|-------------------------------------------------------------------------|------|
| 022025 | LNB DCSS<br><b>N</b>     | LNB DCSS 16 user bands                                                  | 1/50 |
| 022022 | LNB DCSS-L               | LNB DCSS 16 user bands + 1 Legacy output (universal)                    | 1/50 |
| 022032 | LNB DCSS LTV<br><b>N</b> | DCSS LNB for 16 users + one Legacy output (universal) and TER mix input | 1/50 |

## COLLECTIVE AND MULTI-SWITCHING SYSTEMS

|        |             |                                                                                                                                                                      |       |
|--------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 022031 | LNB 44P     | Quattro LNB for SMATV / multiswitches. PLL technology. 4 outputs HL-VL-HH-VH. Input frequencies 10,7 - 11,7 GHz (L.O.: 9,75 GHz) / 11,7 - 12,75 GHz (L.O.: 10,6 GHz) | 1/50  |
| 022015 | DRO 44 G    | Quattro LNB for SMATV / multiswitches. 4 outputs HL-VL-HH-VH. DRO technology. Input frequencies 10,7 - 11,7 GHz (L.O.: 9,75 GHz) / 11,7 - 12,75 GHz (L.O.: 10,6 GHz) | 10/60 |
| 022024 | LNB WB      | LNB Wideband. Input freq: 10,70-12,75 GHz. 2 outputs Horizontal - Vertical. Output freq: 290-2340 MHz. L.O. 10,41 GHz                                                | 1/50  |
| 022027 | LNB WB 1040 | LNB Wideband. Input freq: 10,70-12,75 GHz. 2 outputs Horizontal - Vertical. Output freq: 300-2350 MHz. L.O. 10,40 GHz                                                | 1/50  |



CD 21



PMM

## DiSEqC SWITCHES

|        |       |                                                                                              |        |
|--------|-------|----------------------------------------------------------------------------------------------|--------|
| 023001 | CD 21 | DiSEqC Switch for 2 LNBs. Frequency 950-2400 MHz. Insertion loss: <2dB                       | 10/120 |
| 024001 | PMM   | Waterproof case for CD 21/MI 2 TS L2/RI 2                                                    | 10/120 |
| 023004 | CD 41 | DiSEqC Switch for 4 LNBs with waterproof case. Frequency 950-2400 MHz. Insertion loss: <3 dB | 10/60  |



FE 690

## FILTROS LTE - 5G

|        |         |                                                                                                                                         |          |
|--------|---------|-----------------------------------------------------------------------------------------------------------------------------------------|----------|
| 031031 | FI 694  | Lte2 band rejection filter for indoor installation. Passband frequencies: 5-694 MHz. Rejection:> 60dB LTE 2. Allows Channel 48 passage  | 1/10/100 |
| 031030 | FE 694E | Lte2 band rejection filter for outdoor installation. Passband frequencies: 5-694 MHz. Rejection:> 60dB LTE 2. Allows Channel 48 passage | 10/60    |



FI 694





MQC TS

**QuiCoax® F**  
CONNECTOR



MQCF TS



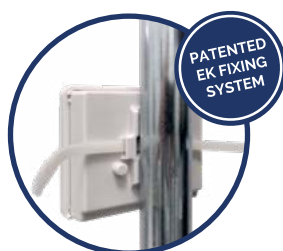
MI 2 TS L2 / RI 2



AM 361 EASY MAGNEK



AM 402 EASY MAGNEK



PATENTED  
EK FIXING  
SYSTEM



Magnetic mount compatible with any mast support on the market



Working status LED



Access AM 361 EASY MAGNEK demo video

## MIXERS/OUTDOOR SPLITTERS

|        |            |                                                                                                                                                                                                 |        |
|--------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 131005 | MQC TS     | Mixer/ demixer QuiCoax. 2 inputs TER-SAT. Insertion loss: 1dB (TER) / 1,5dB (SAT). DC pass in SAT input.                                                                                        | 10/120 |
| 131006 | MQCF TS    | Mixer/ demixer QuiCoax/F. 2 inputs TER-SAT. Insertion loss: 1dB (TER) / 1,5dB (SAT). DC pass in SAT input.                                                                                      | 10/120 |
| 131004 | MI 2 TS L2 | Mixer/ demixer 2 inputs: TER / SAT. Insertion loss: 1dB (TER) / 1,5dB (SAT). DC pass in SAT input.                                                                                              | 10/120 |
| 141006 | RI 2       | 2 outputs A class splitter. Passband: 5-2400 MHz. Insertion loss: 3,8dB (862 MHz) / 4,9dB (2400 MHz). All ports DC pass. All connectors in one side. Compatible with PMM (outdoor installation) | 10/120 |
| 024001 | PMM        | Waterproof case for CD 21/MI 2 TS L2/RI 2                                                                                                                                                       | 10/120 |
| 131002 | MI 3 ICT   | Mix / demix TER / SAT for ICT installations. 3 inputs: TER + 2 x SAT (950-2400 MHz). 2 outputs: TER + SAT 1 / TER + SAT 2. Insertion losses: 4dB (TER) / 2dB (SAT). Class A                     | 10/100 |

## MAST AMPLIFIERS AND POWER SUPPLIES

## EASY MAGNEK DTT 5G 24 VDC

|        |                    |                                                                                                                                                                                                        |       |
|--------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 051030 | AM 361 EASY MAGNEK | Mast amplifier 1 input: UHF (470-694MHz). G: 36dB. Output level (DIN 45004B): 114dBμV. Working voltage: 24Vdc. With DC current passage in UHF input. With 5G High rejection filter                     | 10/40 |
| 051017 | AM 322 EASY MAGNEK | Mast amplifier 2 input: UHF (470-694MHz). G: 2x 32dB. Output level (DIN 45004B): 114dBμV. Working voltage: 24Vdc. With DC current passage in UHF2 input. With 5G High rejection filter                 | 10/40 |
| 051018 | AM 402 EASY MAGNEK | Mast amplifier 2 input: VHF (47-230 MHz) UHF (470-694MHz). G: 28 dB (VHF) 38 dB (UHF). Output level (DIN 45004B): 114dBμV. Working voltage: 24Vdc. Test output (-20 dB). With 5G High rejection filter | 10/40 |

## easy mAgnek

- ✓ Patented and exclusive Ek magnetic clamping system
- ✓ Great ease of installation thanks to the built-in magnetic fixing system
- ✓ Easy, comfortable and safer to work at height
- ✓ One-handed mounting
- ✓ Compatible with any support or pole on the market
- ✓ With optimized ABS plastic enclosure with self-supporting lid and cable lock.
- ✓ Tilting amplifier for easy wiring
- ✓ High rejection 5G filter
- ✓ High output level avoiding intermodulation problems when using strong and weak signals
- ✓ Working status LED (except AM 361 EASY MAGNEK)
- ✓ Low noise factor



## EASY MAGNEK KIT

|        |                           |                                                                                                                                                                                                                                                                                                   |       |
|--------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 051038 | KIT AM 311                | Mast amplifier 1 input: UHF (470-694MHz). G: 35dB. Output level (DIN 45004B): 110dBuV. Working voltage: 24Vdc. With DC current passage in UHF input. With 5G High rejection filter. FA 24S power supply included                                                                                  | 10/40 |
| 051032 | KIT AM 361<br>easy mAgnek | Mast amplifier 1 input: UHF (470-694MHz). G: 36dB. Output level (DIN 45004B): 114dBuV. Working voltage: 24Vdc. With DC current passage in UHF input. With 5G High rejection filter. Includes QuiCoax/F multi-use 24Vdc power supply, reference FA QCF 242                                         | 10/40 |
| 051037 | KIT AM 313<br>easy mAgnek | Mast amplifier 3 input: VHF(47-230MHz) / UHF (470-694MHz) / SAT (950-2200 MHz). G: 20dB (VHF) / 30dB (UHF) / -2dB (SAT). Output level (DIN 45004B): 112dBuV. Working voltage: 12-24Vdc. With DC current passage in SAT input. With 5G High rejection filter. FA QC 12 power supply 12Vdc included | 10/40 |

## DTT 5G 24 Vdc

|        |           |                                                                                                                                                                                                                   |       |
|--------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 051024 | AM 311 L2 | Mast amplifier 1 input: UHF (470-694 MHz). G: 35dB / Output level (DIN 45004B): 110dBuV. Working voltage: 24 Vdc. With DC current passage in UHF input. With 5G High rejection filter                             | 10/60 |
| 051026 | AM 381 L2 | Mast amplifier 1 input: UHF (470-694 MHz). G: 40dB / Output level (DIN 45004B): 114dBuV. Working voltage: 24 Vdc. Second output (TEST) -20dB. With DC current passage in UHF input. With 5G High rejection filter | 10/60 |

## 24Vdc POWER SUPPLIES

|        |         |                                                                                                  |       |
|--------|---------|--------------------------------------------------------------------------------------------------|-------|
| 052003 | FA 24-S | Switched power supply. Output voltage: 24Vdc. Maximum current: 150mA. 2 outputs with F connector | 10/60 |
|--------|---------|--------------------------------------------------------------------------------------------------|-------|

## 24 Vdc QuiCoax POWER SUPPLIES

|        |             |                                                                                                                                      |         |
|--------|-------------|--------------------------------------------------------------------------------------------------------------------------------------|---------|
| 053003 | FA QC 24    | Switched power supply. Output voltage: 24Vdc. Maximum current: 150mA. 1 output                                                       | 10/60   |
| 053007 | FA QC 242SC | Switched power supply with electrical cable terminal (without power cable). Output voltage: 24Vdc. Maximum current: 150mA. 2 outputs | 10/60   |
| 163004 | AQC F       | Male QUICOAX adapter to F female                                                                                                     | 25/1000 |
| 059001 | AMCD        | DIN rail fixing accessory (for QuiCoax and amplifiers)                                                                               | 1/1000  |



KIT AM 361



AM 311 L2 / AM 381 L2



FA 24S



FA QC 24



FA QC 242SC



Example of DIN rail mounting

## NEW MULTI-PURPOSE POWER SUPPLIES

- ✓ High performance switched power supply
- ✓ Ultra compact size
- ✓ The only power supply in the market that fits in 80x80mm connection boxes
- ✓ Wall mount or DIN rail mounting without additional accessories
- ✓ **Multi-purpose system:** option for state-of-the-art **QuiCoax connection** or **F connectors** (adapters included in the packaging)



## NEW MULTI-PURPOSE POWER SUPPLIER QUICOAX F / DIN-RAIL MOUNTING

|        |              |                                                                                                                                      |       |
|--------|--------------|--------------------------------------------------------------------------------------------------------------------------------------|-------|
| 053008 | FA QCF 242   | Switched power supply. Output voltage: 24Vdc. Maximum current: 150mA. 2 outputs                                                      | 10/60 |
| 053009 | FA QCF 242SC | Switched power supply with electrical cable terminal (without power cable). Output voltage: 24Vdc. Maximum current: 150mA. 2 outputs | 10/60 |



AM 313 EASY MAGNEK



FA 12 MINI



FA QC 12



MCA 402 L2



CA 422 L2



CA 383 L2

## EASY MAGNEK DTT 5G + SAT SINGLE CABLE

|        |                    |                                                                                                                                                                                                                                                                                        |       |
|--------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 051019 | AM 313 EASY MAGNEK | Mast amplifier 3 input: VHF (47-230 MHz) / UHF (470-694MHz) / SAT (950 - 2200 MHz). G: 20 dB (VHF) / 30dB (UHF) / -2 dB (SAT). Output level (DIN 45004B): 112dBµV. Working voltage: 12-24Vdc. With DC current passage in SAT input. With 5G High rejection filter                      | 10/40 |
| 051020 | AM 283 EASY MAGNEK | Mast amplifier 3 input: VHF/UHF (47-230 / 470-694 MHz) / UHF (470-694MHz) / SAT (950 - 2200 MHz). G: 20/26 dB (VHF-UHF) / 26dB (UHF) / -2 dB (SAT). Output level (DIN 45004B): 112dBµV. Working voltage: 12-24Vdc. With DC current passage in SAT input. With 5G High rejection filter | 10/40 |

## DTT + SAT SINGLE CABLE POWER SUPPLY

|        |            |                                                                                                                                     |        |
|--------|------------|-------------------------------------------------------------------------------------------------------------------------------------|--------|
| 052005 | FA 12 MINI | Switching power supply. Output voltage: 12Vdc. Maximum current: 250mA. LNB power supply (13-18Vdc/22kHz). 1 output with F connector | 10/60  |
| 166001 | RFF        | Quick F to 2 F connector splitter for FA 12 MINI                                                                                    | 50/400 |

## 12 VDC QUICOAX POWER SUPPLY FOR DTT + SAT SINGLE CABLE

|        |            |                                                                                                                                                                        |         |
|--------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 053001 | FA QC 12   | Switched power supply. Output voltage: 12Vdc. Maximum current: 300mA. LNB power supply (13-18Vdc/22KHz). 1 output                                                      | 10/60   |
| 053006 | FA QC 12SC | Switched power supply with electrical cable terminal (without power cable). Output voltage: 12Vdc. Maximum current: 300mA. LNB power supply (13-18Vdc/22KHz). 1 output | 10/60   |
| 163004 | AQC F      | Male QUICOAX adapter to F female                                                                                                                                       | 25/1000 |
| 059001 | AMCD       | DIN rail fixing accessory (for QuiCoax and amplifiers)                                                                                                                 | 1/1000  |

## WIDE-BAND MICRO AMPLIFIERS 5G

|        |            |                                                                                                                                                                                                                                                              |       |
|--------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 061008 | MCA 402 L2 | Micro amplifier 2 inputs: VHF (47-230MHz) / UHF (470-694MHz) with SAW filter. G: 32dB (VHF) / 40dB (UHF) / Output level (DIN 45004B): 117dBµV (VHF) / 114dBµV (UHF). With switchable 12Vdc power supply in UHF input. A class. With 5G High rejection filter | 10/60 |
|--------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|

## WIDE-BAND COMPACT AMPLIFIERS 5G

## DTT 5G

|        |           |                                                                                                                                                                                                                                                                                               |      |
|--------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 062007 | CA 422 L2 | Broadband amplifier 2 inputs: VHF (47-230 MHz) / UHF (470-694 MHz). G: 30dB (VHF) / 42dB (UHF). Output level (DIN 45004B): 117dBµV. Switchable 12Vdc power supply in UHF input. TEST: -30dB. A Class. With 5G High rejection filter                                                           | 6/24 |
| 062006 | CA 383 L2 | Broadband amplifier 3 inputs: VHF (47-230 MHz) / UHF (470-694 MHz) / UHF (470-694 MHz). Independent amplification VHF-UHF. G: 30dB (VHF) / 2x38dB (UHF). Output level (DIN 45004B): 117dBµV. Switchable 12 Vdc power supply in UHF input. TEST: -30dB. A Class. With 5G High rejection filter | 6/24 |

### DTT 5G + SAT SINGLE CABLE

|        |               |                                                                                                                                                                                                                                                                                                                                           |        |
|--------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 062008 | CA 402 L2 SAT | Broadband amplifier 3 inputs: VHF (47-230 MHz) / UHF (470-694 MHz) / SAT (950-2200 MHz). G: 30dB (VHF) / 40dB (UHF) / 34-40dB (SAT). Output level (DIN 45004B): 116dBuV (VHF) / 116dBuV (UHF) / 119dBuV (SAT). Switchable 12Vdc power supply in UHF input and 13Vdc LNB power supply in SAT input. A Class. With 5G High rejection filter | 6/24   |
| 059001 | AMCD          | DIN rail fixing accessory (for QuiCoax and amplifiers)                                                                                                                                                                                                                                                                                    | 1/1000 |



CA 403



CA 374



CA 482 L2



CA 453 L2



CA 455 L2 SAT



2.1mm Jack connector for redundant power supply



MAD 382 L2

### HIGH-POWER WIDE-BAND AMPLIFIERS 5G

#### DTT 5G

|        |                              |                                                                                                                                                                                                                                                                                                                  |      |
|--------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 062009 | CA 403                       | Broadband amplifier 3 inputs: FM / BIII-DAB / UHF (470-694MHz). G: 24dB (FM) / 33dB (BIII-DAB) / 45dB (UHF). Output level (DIN 45004B): 120dBuV. With switchable 12/24Vdc power supply on UHF input. TEST: -30dB. A class. With 5G High rejection filter                                                         | 10   |
| 062010 | CA 374                       | Broadband amplifier 4 inputs: FM / BIII-DAB / UHF1/UHF2 (470-694MHz). G: 24dB (FM) / 33dB (BIII-DAB) / 41dB (2xUHF). Output level (DIN 45004B): 120dBuV. With switchable 12/24Vdc power supply on UHF inputs. TEST: -30dB. A class. With 5G High rejection filter                                                | 10   |
| 063004 | CA 482 L2<br>N<br>MARCH 2025 | Broadband amplifier with 2 Inputs: VHF (47-233MHz) / UHF (470-694MHz). Gain: 30dB (FM) / 35dB (BIII-DAB) / 48dB (UHF). Output Level (DIN 45004B): 122dBuV. 12/24Vdc switchable power supply on UHF input. TEST: -30dB. Class A. High rejection 5G filter. Optional redundant power supply.                       | 6    |
| 063006 | CA 453 L2<br>N<br>MARCH 2025 | Broadband amplifier. 3 Inputs: VHF (47-232MHz) / UHF 1 (470-694MHz) / UHF 2 (470-694MHz). Gain: 30dB (FM) / 35dB (BIII-DAB) / 44dB (2xUHF). Output Level (DIN 45004B): 124dBuV. 12/24Vdc switchable power supply on UHF inputs. TEST: -30dB. Class A. High rejection 5G filter. Optional redundant power supply. | 6    |
| 071010 | FA 2600P                     | External power supply for redundancy in CA 482 L2, CA 453 L2, and CA 455 L2 SAT.                                                                                                                                                                                                                                 | 1/50 |

#### DTT 5G + SAT UP TO 30 WALL SOCKETS

|        |                                  |                                                                                                                                                                                                                                                                                                                                                                               |    |
|--------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 062011 | CA 374 SAT                       | Broadband amplifier 5 inputs: FM / BIII-DAB / UHF1 / UHF2 (470-694MHz) / SAT. G: 24dB (FM) / 33dB (BIII-DAB) / 40dB (2 x UHF) / 40dB (SAT). Output level (DIN 45004B): 120dBuV. With switchable 12/24Vdc power supply on UHF inputs and 13Vdc LNB power supply on SAT input. TEST: -30dB. A class. With 5G High rejection filter                                              | 10 |
| 063008 | CA 455 L2 SAT<br>N<br>APRIL 2025 | Broadband amplifier with 5 Inputs: FM / BIII-DAB / UHF 1 (470-694MHz) / UHF 2 (470-694MHz) / SAT. Gain: 30dB (FM) / 35dB (BIII-DAB) / 44dB (2xUHF) / 40dB (SAT). Output Level (DIN 45004B): 122dBuV. 12/24Vdc switchable power supply on UHF inputs and 13Vdc LNB power supply on SAT input. TEST: -30dB. Class A. High rejection 5G filter. Optional redundant power supply. | 6  |

### SAT AMPLIFIERS WITH TER MIX

|        |            |                                                                                                                                                                                                  |       |
|--------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 170006 | MAD 382 L2 | Micro amplifier 2 inputs: TER (47-694 MHz) / SAT (950-2200 MHz). G: -1dB (TER) / 31dB (950 MHz) / 38dB (2150 MHz). Output level (DIN 45004B/ IMD-35dB): 120dBuV. 13Vdc LNB power supply. A Class | 10/60 |
|--------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|



NOVUS MAST



FA 12S 500



NOVUS



NOVUS PRO



2.1mm Jack connector for redundant power supply (NOVUS PRO & NOVUS PRO ICT)



NOVUS PRO ICT



Discover all the details of the Novus Series

## DIGITAL PROGRAMMABLE AMPLIFIER NOVUS SERIE

### MAST SERIES

|        |                          |                                                                                                                                                                                                                                                                                                                                                                          |      |
|--------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 071022 | NOVUS MAST<br>N<br>Abril | Amplifier with 32 ultra-selective UHF filters. 1 UHF input (G>40dB) / 1 UHF input with internal preamplifier (G>50dB) / 1 FM-DAB-BIII input (G>12dB). Preamplifier power supply (12V). Output level: 94dBμV <sup>(1)</sup> (DIN 45004B). TEST output usable as a second output. Automatic programming and individual filter adjustment via Visual Mode (Patent pending). | 1/12 |
| 052007 | FA 12S 500<br>N<br>Abril | Switched power supply. Output voltage: 12Vdc. Maximum current: 500mA. 2 outputs with F connector                                                                                                                                                                                                                                                                         | 1/10 |

(1) 86dBμV for 10 MUX

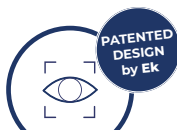
### INDOOR SERIES

|        |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |
|--------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 071023 | NOVUS<br>N<br>Marzo | Amplifier with 32 ultra-selective UHF filters. 1 UHF input (G>55dB) / 1 UHF input with internal preamplifier (G>65dB) / 1 FM-DAB-BIII input (G>12dB). Preamplifier power supply (12V). Output level: 113dBμV <sup>(2)</sup> (DIN 45004B). Automatic programming and individual filter adjustment via Visual Mode (Patent pending). Installation fault detection through Test Mode.                                                                                                                                    | 1/15 |
| 071020 | NOVUS PRO<br>N      | Amplifier with 32 ultra-selective UHF filters. 1 UHF input (G > 65dB), 1 UHF input with internal preamplifier (G > 75dB), 1 configurable UHF input for DAB (G > 65dB), 1 FM input (G > 28dB). Preamp power supply: 12V/24V. Output level: 124 dBμV <sup>(3)</sup> (DIN 45004B). Automatic programming and individual filter adjustment using Visual Mode (Patent pending). Fault detection in the installation via Test Mode. Redundant power supply (optional).                                                      | 1/10 |
| 071021 | NOVUS PRO ICT<br>N  | Amplifier with 32 ultra-selective UHF filters. 1 UHF input (G > 60dB), 1 UHF input with internal preamplifier (G > 70dB), 1 UHF input configurable for DAB (G > 60dB), 1 FM input (G > 28dB), 1 SAT input (G > 35dB). Preamp power supply: 12V/24V. Output level: TER 120dBμV <sup>(4)</sup> (DIN 45004B) / SAT 119dBμV (IMD -35dB). Automatic programming and individual filter adjustment using Visual Mode (Patent pending). Fault detection in the installation via Test Mode. Redundant power supply (optional). | 1/10 |
| 071010 | FA 2600P            | External power supply for redundancy in NOVUS PRO and NOVUS PRO ICT                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1/50 |

(2) 105dBμV for 10 MUX / (3) 116dBμV for 10 MUX / (4) 112dBμV for 10 MUX

## NOVUS SERIE

The new generation of programmable amplifiers with **advanced** and **patented modes** that redefine the standard.



VISUAL Mode



Spectrum Mode



TEST Mode



STATUS Model



High-quality OLED screen



Intuitive configuration via multi-directional joystick



Manual and automatic programming



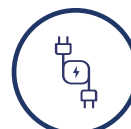
Independent output level configuration for each MUX



Channel conversion



New hardware with top-quality and highly reliable components



Input for redundant power supply

Extended warranty (\*)  
(\*) Register at [www.ek.plus](http://www.ek.plus)



- ✓ High shielding quicoax zamak housing
- ✓ Low power consumption. External power supply only for Inb
- ✓ Power supply can be installed at any multiswitch of the cascade
- ✓ DC PASS on SAT trunk input/output
- ✓ Selectable DC PASS ON/OFF on terrestrial line for pre-amplifiers
- ✓ Very easy to install, few seconds needed
- ✓ Fast QuiCoax connection, no connectors needed
- ✓ **Latest generation QuiCoax system for the easiest connection**



Multiswitch QuiCoax



F type connection conversion with AQC-F adapter

#### QuiCoax MULTISWITCHES 4 POLARITIES + TER STANDALONE

|        |                        |                                                                                                                                                                                  |       |
|--------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 090013 | MS QC 512*             | Multiswitch stand-alone/end-cascade. 5 inputs (4 SAT + 1 TER). 12 users outputs. Tap loss: SAT <3dB / TER 17dB. With return path. EKOAX compatible.                              | 1/24  |
| 090029 | MS QC 516E*            | Multiswitch stand-alone/end-cascade. 5 inputs (4 SAT + 1 TER). 16 users outputs. Tap loss: SAT <6dB / TER 21dB. With return path. EKOAX compatible.                              | 1/15  |
| 090016 | MS QC 520*<br><b>E</b> | Multiswitch universal standalone/end-cascade. 5 inputs (4 SAT + 1 TER). 20 users outputs. Tap loss: SAT <3dB / TER 20dB. With return path on passive TER mode. EKOAX compatible. | 1/10  |
| 090030 | MS QC 520E*            | Multiswitch stand-alone/end-cascade. 5 inputs (4 SAT + 1 TER). 20 users outputs. Tap loss: SAT <6dB / TER 23dB. With return path. EKOAX compatible.                              | 1/15  |
| 090017 | MS QC 524*             | Multiswitch stand-alone/end-cascade. 5 inputs (4 SAT + 1 TER). 24 users outputs. Tap loss: SAT <6dB / TER 21dB. With return path. EKOAX compatible.                              | 1/10  |
| 090018 | MS QC 528*             | Multiswitch stand-alone/end-cascade. 5 inputs (4 SAT + 1 TER). 28 users outputs. Tap loss: SAT <6dB / TER 22dB. With return path. EKOAX compatible.                              | 1/10  |
| 071006 | FA 1210                | Power supply 12 Vdc / 1000 mA                                                                                                                                                    | 1/100 |
| 071010 | FA 2600P               | Power supply 12Vdc / 2600mA                                                                                                                                                      | 1/50  |

\* Power supply not included

#### QuiCoax MULTISWITCHES 4 POLARITIES + TER CASCADABLE

|        |            |                                                                                                                                                                                                                                                 |      |
|--------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 090011 | MS QC 585* | Multiswitch stand-alone/cascade. 5 inputs (4 SAT + 1 TER). 8 users output. 5 trunk line outputs. Insertion loss <3dB. Tap loss: SAT <3dB / TER (Passive) 21dB. With return path. Compatible with standalone multiswitch. Compatible with EKOAX. | 1/24 |
|--------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|

\* Power supply not included



MS QC 58



MS QC 520E



MS QC 585





MS QC 515D



MS QC 916



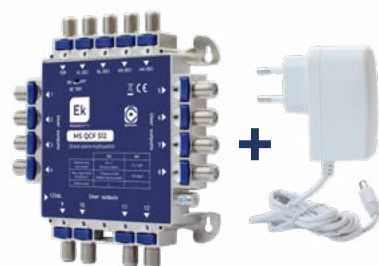
MS QC 989



AMP QC 55



CQC 75A



MS QCF 512 + FA 1210

### QuiCoax MULTISWITCHES 4 POLARITIES + TER DCSS CASCADABLE

|        |             |                                                                                                                                                                                                       |      |
|--------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 090014 | MS QC 515D* | Multiswitch stand-alone/cascade. 5 inputs. 4 SAT (2 X Wideband or 1 x Quattro LNB) + 1 TER. 1x16 dCSS user-bands. 5 trunk line outputs. Insertion loss <3dB. With return path. Compatible with EKOAX. | 1/24 |
|--------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|

\* Power supply not included

### QuiCoax MULTISWITCHES 8 POLARITIES +TER STANDALONE

|        |            |                                                                                                                                                                                                                       |       |
|--------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 090031 | MS QC 98*  | Multiswitch stand-alone/end-cascade. 9 inputs (8 SAT + 1 TER). 8 users outputs. Tap loss: SAT <3dB / TER (Passive) <16dB. Output level: SAT (DIN 45004B -35dBc) 100dBμV. With passive return path. EKOAX compatible.  | 1/15  |
| 090032 | MS QC 916* | Multiswitch stand-alone/end-cascade. 9 inputs (9 SAT + 1 TER). 16 users outputs. Tap loss: SAT <3dB / TER (Passive) <21dB. Output level: SAT (DIN 45004B -35dBc) 100dBμV. With passive return path. EKOAX compatible. | 1/15  |
| 071006 | FA 1210    | Power supply 12 Vdc / 1000 mA                                                                                                                                                                                         | 1/100 |
| 071010 | FA 2600P   | Power supply 12Vdc / 2600mA                                                                                                                                                                                           | 1/50  |

\* Power supply not included

### QuiCoax MULTISWITCHES 8 POLARITIES +TER CASCADABLE

|        |            |                                                                                                                                                                                                                                                            |      |
|--------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 090033 | MS QC 989* | Multiswitch stand-alone/cascade. 9 inputs (8 SAT + 1 TER). 8 users output. 9 trunk line outputs. Insertion loss <3dB. Tap loss: SAT <3dB / TER (Passive) <23dB. Output level: SAT (DIN 45004B -35dBc) 100dBμV. With passive return path. EKOAX compatible. | 1/15 |
|--------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|

\* Power supply not included

### QuiCoax CASCADABLE AMPLIFIERS

|        |            |                                                                                                         |      |
|--------|------------|---------------------------------------------------------------------------------------------------------|------|
| 090034 | AMP QC 55* | Multiswitch cascable amplifier, 5 inputs/outputs. Input TV 20dB / 104dBμV. Inputs 4xSAT 23dB / 110dBμV. | 1/10 |
| 090035 | AMP QC 99* | Multiswitch cascable amplifier, 9 inputs/outputs. Input TV 20dB / 104dBμV. Inputs 8xSAT 23dB / 110dBμV. | 1/10 |

\* Power supply not included

### ACCESSORIES

|        |         |                                                   |         |
|--------|---------|---------------------------------------------------|---------|
| 163008 | CQC 75A | 75 Ohm isolated terminal load for QUICOAX devices | 25/1000 |
| 163004 | AQC F   | Male QUICOAX adapter to F female                  | 25/1000 |

### STANDALONE MULTI-PURPOSE QuiCoax F MULTISWITCHES. 4 POLARITIES + TER

|        |             |                                                                                                                                                     |      |
|--------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 090036 | MS QCF 58*  | Multiswitch stand-alone/end-cascade. 5 inputs (4 SAT + 1 TER). 8 users outputs. Tap loss: SAT <3dB / TER 15dB. With return path. EKOAX compatible.  | 1/10 |
| 090037 | MS QCF 512* | Multiswitch stand-alone/end-cascade. 5 inputs (4 SAT + 1 TER). 12 users outputs. Tap loss: SAT <3dB / TER 17dB. With return path. EKOAX compatible. | 1/10 |
| 090038 | MS QCF 516* | Multiswitch stand-alone/end-cascade. 5 inputs (4 SAT + 1 TER). 16 users outputs. Tap loss: SAT <6dB / TER 21dB. With return path. EKOAX compatible. | 1/10 |
| 090039 | MS QCF 520* | Multiswitch stand-alone/end-cascade. 5 inputs (4 SAT + 1 TER). 20 users outputs. Tap loss: SAT <6dB / TER 23dB. With return path. EKOAX compatible. | 1/10 |
| 090040 | MS QCF 524* | Multiswitch stand-alone/end-cascade. 5 inputs (4 SAT + 1 TER). 24 users outputs. Tap loss: SAT <6dB / TER 21dB. With return path. EKOAX compatible. | 1/10 |
| 090041 | MS QCF 528* | Multiswitch stand-alone/end-cascade. 5 inputs (4 SAT + 1 TER). 28 users outputs. Tap loss: SAT <6dB / TER 22dB. With return path. EKOAX compatible. | 1/10 |

\* FA 1210 power supply included

**CASCADE MULTI-PURPOSE QUICOAX F MULTISWITCHES. 4 POLARITIES + TER**

|        |              |                                                                                                                                                                                                                                                 |      |
|--------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 090042 | MS QCF 585*  | Multiswitch stand-alone/cascade. 5 inputs (4 SAT + 1 TER). 8 users output. 5 trunk line outputs. Insertion loss <3dB. Tap loss: SAT <3dB / TER (Passive) 21dB. With return path. Compatible with standalone multiswitch. Compatible with EKOAX. | 1/12 |
| 090043 | MS QCF 515D* | Multiswitch stand-alone/cascade. 5 inputs. 4 SAT (2 X Wideband or 1 x Quattro LNB) + 1 TER. 1x16 dCSS user-bands. 5 trunk line outputs. Insertion loss <3dB. With return path. Compatible with EKOAX.                                           | 1/12 |

\* Power supply **not** included

**KIT CASCADE MULTI-PURPOSE QuiCoax F MULTISWITCHES. 4 POLARITIES + TER**

|        |                 |                                                                               |      |
|--------|-----------------|-------------------------------------------------------------------------------|------|
| 090049 | KIT MS QCF 515D | Kit with LNB Wide Band 1040, Multiswitch MS QCF 515D and FA 1210 power supply | 1/12 |
|--------|-----------------|-------------------------------------------------------------------------------|------|

**Multi-purpose star MULTISWITCHES QuiCoax F 8 polarities + TER**

|        |             |                                                                                                                                                                                                                       |      |
|--------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 090045 | MS QCF 98*  | Multiswitch stand-alone/end-cascade. 9 inputs (8 SAT + 1 TER). 8 users outputs. Tap loss: SAT <3dB / TER (Passive) <16dB. Output level: SAT (DIN 45004B -35dBc) 100dBμV. With passive return path. EKOAX compatible.  | 1/10 |
| 090046 | MS QCF 916* | Multiswitch stand-alone/end-cascade. 9 inputs (9 SAT + 1 TER). 16 users outputs. Tap loss: SAT <3dB / TER (Passive) <21dB. Output level: SAT (DIN 45004B -35dBc) 100dBμV. With passive return path. EKOAX compatible. | 1/10 |

\* FA 1210 power supply included

**Cascade multi-purpose QuiCoax F multiswitches. 8 polarities + TER**

|        |             |                                                                                                                                                                                                                                                            |      |
|--------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 090044 | MS QCF 989* | Multiswitch stand-alone/cascade. 9 inputs (8 SAT + 1 TER). 8 users output. 9 trunk line outputs. Insertion loss <3dB. Tap loss: SAT <3dB / TER (Passive) <23dB. Output level: SAT (DIN 45004B -35dBc) 100dBμV. With passive return path. EKOAX compatible. | 1/10 |
|--------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|

\* Power supply **not** included

**MULTI-PURPOSE CASCADE AMPLIFIERS QUICOAX F**

|        |             |                                                                                                           |      |
|--------|-------------|-----------------------------------------------------------------------------------------------------------|------|
| 090047 | AMP QCF 55* | Multiswitch cascadable amplifier, 5 inputs/outputs. Input TV 20dB / 104dBμV. Inputs 4xSAT 23dB / 110dBμV. | 1/10 |
| 090048 | AMP QCF 99* | Multiswitch cascadable amplifier, 9 inputs/outputs. Input TV 20dB / 104dBμV. Inputs 8xSAT 23dB / 110dBμV. | 1/10 |

\* Power supply **not** included

**Multi splitters for multiswitch installations. Multi-purpose QuiCoax F. 4/8 polarities+TER**

|        |        |                                                                                                                                                              |      |
|--------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 090050 | MR 525 | Multi Splitter 5 inputs and 2 x 5 outputs Passband: 5-2400MHz. Insertion loss: 3.8dB (862MHz) / 4.9dB (2400MHz). With DC current pass-through. Class A +10dB | 1/10 |
| 090051 | MR 929 | Multi Splitter 9 inputs and 2 x 9 outputs Passband: 5-2400MHz. Insertion loss: 3.8dB (862MHz) / 4.9dB (2400MHz). With DC current pass-through. Class A +10dB | 1/10 |

**Multi taps for multiswitch installations. Multi-purpose QuiCoax F. 4/8 polarities+TER**

|        |           |                                                                                                                                                                                                  |   |
|--------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 090052 | MD 555-24 | Multi Tap 5 inputs, 5 taps and 5 trunk outputs. Passband: 5-2400MHz. Tap attenuation: 24dB. Insertion loss: 0.8dB (862MHz) / 2dB (2400MHz). With DC current passage in trunk line. Class A +10dB | 1 |
| 090053 | MD 555-20 | Multi Tap 5 inputs, 5 taps and 5 trunk outputs. Passband: 5-2400MHz. Tap attenuation: 20dB. Insertion loss: 1dB (862MHz) / 2,2dB (2400MHz). With DC current passage in trunk line. Class A +10dB | 1 |



MS QCF 585



MS QCF 515D



MS QCF 989



AMP QCF 55



MR525

MULTI  
SPLITTER



MULTI  
TAP

MD 555-16



MD 999-12



MI 3 ICT



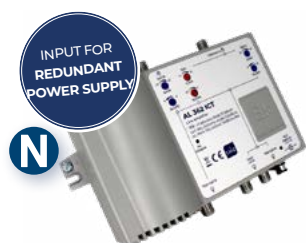
AC 118 R



ALS 24



AL 401 TS



AL 362 ICT

|        |           |                                                                                                                                                                                                    |   |
|--------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 090054 | MD 555-16 | Multi Tap 5 inputs, 5 taps and 5 trunk outputs. Passband: 5-2400MHz. Tap attenuation: 16dB. Insertion loss: 1,5dB (862MHz) / 2,4dB (2400MHz). With DC current passage in trunk line. Class A +10dB | 1 |
| 090055 | MD 555-12 | Multi Tap 5 inputs, 5 taps and 5 trunk outputs. Passband: 5-2400MHz. Tap attenuation: 12dB. Insertion loss: 2,2dB (862MHz) / 3,5dB (2400MHz). With DC current passage in trunk line. Class A +10dB | 1 |
| 090056 | MD 999-24 | Multi Tap 9 inputs, 9 taps and 9 trunk outputs. Passband: 5-2400MHz. Tap attenuation: 24dB. Insertion loss: 0,8dB (862MHz) / 2dB (2400MHz). With DC current passage in trunk line. Class A +10dB   | 1 |
| 090057 | MD 999-20 | Multi Tap 9 inputs, 9 taps and 9 trunk outputs. Passband: 5-2400MHz. Tap attenuation: 20dB. Insertion loss: 1dB (862MHz) / 2,2dB (2400MHz). With DC current passage in trunk line. Class A +10dB   | 1 |
| 090058 | MD 999-16 | Multi Tap 9 inputs, 9 taps and 9 trunk outputs. Passband: 5-2400MHz. Tap attenuation: 16dB. Insertion loss: 1,5dB (862MHz) / 2,4dB (2400MHz). With DC current passage in trunk line. Class A +10dB | 1 |
| 090059 | MD 999-12 | Multi Tap 9 inputs, 9 taps and 9 trunk outputs. Passband: 5-2400MHz. Tap attenuation: 12dB. Insertion loss: 2,2dB (862MHz) / 3,5dB (2400MHz). With DC current passage in trunk line. Class A +10dB | 1 |

## OUTDOOR MIXER

|        |          |                                                                                                                                                                                        |        |
|--------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 131002 | MI 3 ICT | Mix / demix TER / SAT for ICT installations. 3 inputs: TER (5-862 MHz) / 2 x SAT (950-2300 MHz). 2 outputs: TER + SAT1 / TER + SAT 2. Insertion losses: 4dB (TER) / 2dB (SAT). Class A | 10/100 |
|--------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|

## LINE AMPLIFIERS

## DVB-T / CATV / EKOAX

|        |             |                                                                                                                                                                                                                                  |       |
|--------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 061007 | MCAL 381 LR | Micro-broadband / line amplifier 1 input (88 - 1000MHz) and passive return path 5-65MHz. G: 26dB (88MHz) / 32dB (1000MHz). Output level: (DIN 45004B): 117dB $\mu$ V (VHF) / 114dB $\mu$ V (UHF). A Class. Compatible with EKOAX | 10/60 |
| 102006 | AC 118 R    | Line amplifier with passive return path 5-65MHz. Direct frequency: 87-1000MHz. G: 38dB. Output level: (DIN 45004B) 118dB $\mu$ V. TEST: -20DB. Compatible with EKOAX                                                             | 6/24  |

## SAT

|        |        |                                                                                                                                              |        |
|--------|--------|----------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 101001 | ALS 24 | SAT line amplifier. Frequency: 950-2400 MHz. G: 18 dB (950 MHz) / 25dB (2300 MHz). Output level (DIN 45004B -35dBc): 110 dB $\mu$ V. A class | 10/120 |
|--------|--------|----------------------------------------------------------------------------------------------------------------------------------------------|--------|

## DVB-T + SAT

|        |           |                                                                                                                                                                                                                                                                 |      |
|--------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 102002 | AL 351 TS | Line amplifier TER + SAT. 1 input (47-790/950-2150 MHz). G: 35 dB (TER) / 35 dB (SAT). 1 output. Output level (DIN 45004B): 117 dB $\mu$ V (TER) / 120 dB $\mu$ V (SAT). TEST:-30dB. A Class                                                                    | 6/24 |
| 102022 | AL 401 TS | Line amplifier TER + SAT. 1 input: TER + SAT (47-694 / 950-2150 MHz). G: 40 dB (TER) / 40 dB (SAT). Adjustable tilt on each band. Output level (DIN 45004B): 122 dB $\mu$ V (TER) / 120 dB $\mu$ V (SAT). Test -30dB. Optional redundant power supply. Class A. | 6    |

## DVB-T + SAT / DOUBLE LINE

|        |            |                                                                                                                                                                                                                                                                                      |      |
|--------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 102021 | AL 362 ICT | Dual-line amplifier TER + SAT. 2 inputs: TER + SAT (47-694/950-2150MHz). G: 36dB (TER) / 40dB (SAT). Adjustable tilt on each band. 2 TER + SAT outputs. Output level (DIN 45004B): 118dB $\mu$ V (TER) / 121dB $\mu$ V (SAT). TEST: -30dB. Optional redundant power supply. Class A. | 6    |
| 071010 | FA 2600P   | External power supply for redundancy in AL 401 TS and AL 362 ICT                                                                                                                                                                                                                     | 1/50 |

## INDOOR AMPLIFIERS

## DTT 5G

|        |           |                                                                                                              |       |
|--------|-----------|--------------------------------------------------------------------------------------------------------------|-------|
| 111006 | AA 20 L2  | Indoor amplifier 1 input (47-694 MHz). 2 output. G: 20dB. Output level (DIN 45004B): 2 x 104 dBuV            | 10/60 |
| 111007 | AA 412 L2 | Indoor amplifier . 1 input (47-694MHz). 4 outputs. G: 4 x 12dB. Output level (DIN 45004B): 4 x 100dB $\mu$ V | 10/60 |

## DTT + SAT

|        |        |                                                                                                                                                                       |       |
|--------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 111005 | AAS 20 | Indoor amplifier TER+SAT. 1 input (47-2200MHz). 1 output. G: 11-22dB (Fix-tilt). Output level (DIN 45004B): 110dB $\mu$ V. It allows remote power and DC pass for LNB | 10/60 |
|--------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|

## MICRO INDOOR AMPLIFIERS

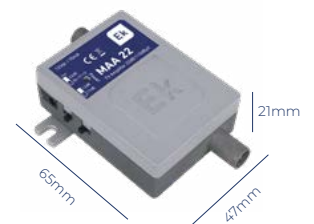
|        |        |                                                                                                                                                                         |       |
|--------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 111009 | MAA 22 | Micro indoor amplifier with return path. 1 input (5-65/88-1000 MHz) / 1 output. G: 12-17-22dB. Output level (DIN 45004B): 110 dBuV. Wall mounted. Compatible with EKOAX | 10/60 |
|--------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|



AA 20 L2



AA 412 L2



MAA 22

## NEW MICRO INDOOR AMPLIFIERS



- ✓ Micro indoor amplifiers
- ✓ Ultra compact size
- ✓ Fits on 80x80 mm junction boxes
- ✓ Wall mount or DIN rail mounting without additional accessories
- ✓ High output level that prevents intermodulation issues when amplifying strong and weak signals.
- ✓ **Multi-purpose system:** option for state-of-the-art **QuiCoax connection** or **F connectors** (adapters included in the packaging)



AA QCF 182



AA QCF 182 SC

## QuiCoax-F MICRO INDOOR AMPLIFIERS

|        |               |                                                                                                                                                               |       |
|--------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 111016 | AA QCF 211    | Micro indoor amplifier. 1 input (47-694 MHz) / 1 output. G: 21dB. Output level (DIN 45004B): 114 dBuV.                                                        | 10/60 |
| 111017 | AA QCF 182    | Micro indoor amplifier. 1 input (47-694 MHz) / 2 output. G: 18dB. Output level (DIN 45004B): 2x110 dBuV.                                                      | 10/60 |
| 111018 | AA QCF 182 SC | Micro indoor amplifier with electrical cable terminal (without power cable). 1 input (47-694 MHz) / 2 output. G: 18dB. Output level (DIN 45004B): 2x110 dBuV. | 10/60 |



Example of DIN rail mounting

**RQC 2M****RQC 3****RQCF 2****RQCF 6****PAU EXT**

Enables the conversion of the distributed RQC 2, 4, 6, and 8 into user PAUs (Spanish regulation)

**DQC 112****QuiCoax SPLITTERS**

|        |         |                                                                                                                                             |        |
|--------|---------|---------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 141009 | RQC 2M  | 2 outputs A class Mini splitter. Passband: 5-2400 MHz. Insertion loss: 3,8dB (862 MHz) / 4,9dB (2400 MHz). All ports DC pass. Class A+10 dB | 20/120 |
| 141010 | RQC 2   | 2 outputs A class splitter. Passband: 5-2400 MHz. Insertion loss: 3,8dB (862 MHz) / 4,9dB (2400 MHz). All ports DC pass. Class A+10 dB      | 20/120 |
| 141011 | RQC 3   | 3 outputs A class splitter. Passband: 5-2400 MHz. Insertion loss: 7dB (862 MHz) / 9,5dB (2400 MHz). All ports DC pass. Class A+10 dB        | 20/120 |
| 141016 | RQC 4   | 4 outputs A class splitter. Passband: 5-2400 MHz. Insertion loss: 8,1dB (862 MHz) / 10dB (2400 MHz). All ports DC pass. Class A+10 dB       | 20/120 |
| 141017 | RQC 6   | 6 outputs A class splitter. Passband: 5-2400 MHz. Insertion loss: 10dB (862 MHz) / 12dB (2400 MHz). All ports DC pass. Class A+10 dB        | 10/60  |
| 141018 | RQC 8   | 8 outputs A class splitter. Passband: 5-2400 MHz. Insertion loss: 12dB (862 MHz) / 14dB (2400 MHz). All ports DC pass. Class A+10 dB        | 10/60  |
| 163005 | PAU EXT | Connector with terminal load 75 Ohm. It allows the conversion of RQC 2, 4, 6 and 8 splitters in PAU (Spanish ICT regulation)                | 25     |

**QuiCoax-F SPLITTERS**

|        |         |                                                                                                                                        |        |
|--------|---------|----------------------------------------------------------------------------------------------------------------------------------------|--------|
| 141025 | RQCF 2  | 2 outputs A class splitter. Passband: 5-2400 MHz. Insertion loss: 3,8dB (862 MHz) / 4,9dB (2400 MHz). All ports DC pass. Class A+10 dB | 20/120 |
| 141026 | RQCF 3  | 3 outputs A class splitter. Passband: 5-2400 MHz. Insertion loss: 7dB (862 MHz) / 9,5dB (2400 MHz). All ports DC pass. Class A+10 dB   | 20/120 |
| 141027 | RQCF 4  | 4 outputs A class splitter. Passband: 5-2400 MHz. Insertion loss: 8,1dB (862 MHz) / 10dB (2400 MHz). All ports DC pass. Class A+10 dB  | 20/120 |
| 141028 | RQCF 6  | 6 outputs A class splitter. Passband: 5-2400 MHz. Insertion loss: 10dB (862 MHz) / 12dB (2400 MHz). All ports DC pass. Class A+10 dB   | 20/120 |
| 141029 | RQCF 8  | 8 outputs A class splitter. Passband: 5-2400 MHz. Insertion loss: 12dB (862 MHz) / 14dB (2400 MHz). All ports DC pass. Class A+10 dB   | 10/60  |
| 163005 | PAU EXT | Connector with terminal load 75 Ohm. It allows the conversion of RQC 2, 4, 6 and 8 splitters in PAU (Spanish ICT regulation)           | 10/60  |

**QuiCoax TAPS**

|        |         |                                                                                                                                                              |        |
|--------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 142026 | DQC 112 | 1 output A class Mini tap. Passband: 5-2400 MHz. Tap loss: 12dB. Insertion loss: 1,9dB (862 MHz) / 3,2dB (2400 MHz). DC pass in trunk line. Class A + 10 dB  | 20/120 |
| 142027 | DQC 116 | 1 output A class Mini tap. Passband: 5-2400 MHz. Tap loss: 16dB. Insertion loss: 1,5dB (862 MHz) / 2,4 dB (2400 MHz). DC pass in trunk line. Class A + 10 dB | 20/120 |
| 142028 | DQC 120 | 1 output A class Mini tap. Passband: 5-2400 MHz. Tap loss: 20dB. Insertion loss: 1 dB (862 MHz) / 2,2 dB (2400 MHz). DC pass in trunk line. Class A + 10 dB  | 20/120 |
| 142029 | DQC 124 | 1 output A class Mini tap. Passband: 5-2400 MHz. Tap loss: 24dB. Insertion loss: 0,8 dB (862 MHz) / 2 dB (2400 MHz). DC pass in trunk line. Class A + 10 dB  | 20/120 |
| 141012 | DQC 212 | 2 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 12dB. Insertion loss: 2,2dB (862 MHz) / 3,5dB (2400 MHz). DC pass in trunk line. Class A + 10 dB      | 20/120 |

|        |         |                                                                                                                                                         |        |
|--------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 141013 | DQC 216 | 2 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 16dB. Insertion loss: 1,6dB (862 MHz) / 2,6dB (2400 MHz). DC pass in trunk line. Class A + 10 dB | 20/120 |
| 141014 | DQC 220 | 2 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 20dB. Insertion loss: 1,1dB (862 MHz) / 2,6dB (2400 MHz). DC pass in trunk line. Class A + 10 dB | 20/120 |
| 141015 | DQC 224 | 2 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 24dB. Insertion loss: 1dB (862 MHz) / 2,3dB (2400 MHz). DC pass in trunk line. Class A + 10 dB   | 20/120 |
| 142016 | DQC 412 | 4 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 12dB. Insertion loss: 3,2dB (862 MHz) / 4,5dB (2400 MHz). DC pass in trunk line. Class A + 10 dB | 20/120 |
| 142017 | DQC 416 | 4 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 16dB. Insertion loss: 1,8dB (862 MHz) / 3,5dB (2400 MHz). DC pass in trunk line. Class A + 10 dB | 20/120 |
| 142018 | DQC 420 | 4 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 20dB. Insertion loss: 1,5dB (862 MHz) / 2,1dB (2400 MHz). DC pass in trunk line. Class A + 10 dB | 20/120 |
| 142019 | DQC 424 | 4 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 24dB. Insertion loss: 1,3dB (862 MHz) / 2dB (2400 MHz). DC pass in trunk line. Class A + 10 dB   | 20/120 |
| 142020 | DQC 616 | 6 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 16dB. Insertion loss: 4dB (862 MHz) / 4,4dB (2400 MHz). DC pass in trunk line. Class A + 10 dB   | 10/60  |
| 142021 | DQC 620 | 6 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 20dB. Insertion loss: 2,7dB (862 MHz) / 3,9dB (2400 MHz). DC pass in trunk line. Class A + 10 dB | 10/60  |
| 142022 | DQC 624 | 6 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 24dB. Insertion loss: 1,8dB (862 MHz) / 2,8dB (2400 MHz). DC pass in trunk line. Class A + 10 dB | 10/60  |
| 142023 | DQC 816 | 8 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 16dB. Insertion loss: 4dB (862 MHz) / 4,4dB (2400 MHz). DC pass in trunk line. Class A + 10 dB   | 10/60  |
| 142024 | DQC 820 | 8 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 20dB. Insertion loss: 2,7dB (862 MHz) / 3,9dB (2400 MHz). DC pass in trunk line. Class A + 10 dB | 10/60  |
| 142025 | DQC 824 | 8 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 24dB. Insertion loss: 1,8dB (862 MHz) / 2,8dB (2400 MHz). DC pass in trunk line. Class A + 10 dB | 10/60  |



DQC 212



DQC 412



DQC 616



DQC 816



### QuiCoax-F TAPS

|        |          |                                                                                                                                                              |        |
|--------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 142030 | DQCF 112 | 1 output A class Mini tap. Passband: 5-2400 MHz. Tap loss: 12dB. Insertion loss: 1,9dB (862 MHz) / 3,2dB (2400 MHz). DC pass in trunk line. Class A + 10 dB  | 20/120 |
| 142031 | DQCF 116 | 1 output A class Mini tap. Passband: 5-2400 MHz. Tap loss: 16dB. Insertion loss: 1,5dB (862 MHz) / 2,4 dB (2400 MHz). DC pass in trunk line. Class A + 10 dB | 20/120 |
| 142032 | DQCF 120 | 1 output A class Mini tap. Passband: 5-2400 MHz. Tap loss: 20dB. Insertion loss: 1 dB (862 MHz) / 2,2 dB (2400 MHz). DC pass in trunk line. Class A + 10 dB  | 20/120 |
| 142033 | DQCF 124 | 1 output A class Mini tap. Passband: 5-2400 MHz. Tap loss: 24dB. Insertion loss: 0,8 dB (862 MHz) / 2 dB (2400 MHz). DC pass in trunk line. Class A + 10 dB  | 20/120 |
| 142034 | DQCF 212 | 2 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 12dB. Insertion loss: 2,2dB (862 MHz) / 3,5dB (2400 MHz). DC pass in trunk line. Class A + 10 dB      | 20/120 |



DQCF 116



DQCF 212



DQCF 220



DQCF 416



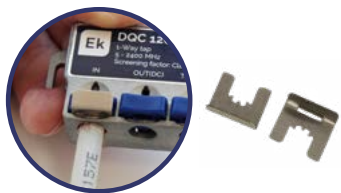
DQCF 616



PCA 4QC



PC QC



BL QC



RQC 6 on DIN rail with AMCD

|        |          |                                                                                                                                                         |        |
|--------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 142035 | DQCF 216 | 2 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 16dB. Insertion loss: 1,6dB (862 MHz) / 2,6dB (2400 MHz). DC pass in trunk line. Class A + 10 dB | 20/120 |
| 142036 | DQCF 220 | 2 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 20dB. Insertion loss: 1,1dB (862 MHz) / 2,6dB (2400 MHz). DC pass in trunk line. Class A + 10 dB | 20/120 |
| 142037 | DQCF 224 | 2 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 24dB. Insertion loss: 1dB (862 MHz) / 2,3dB (2400 MHz). DC pass in trunk line. Class A + 10 dB   | 20/120 |
| 142038 | DQCF 412 | 4 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 12dB. Insertion loss: 3,2dB (862 MHz) / 4,5dB (2400 MHz). DC pass in trunk line. Class A + 10 dB | 20/120 |
| 142039 | DQCF 416 | 4 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 16dB. Insertion loss: 1,8dB (862 MHz) / 3,5dB (2400 MHz). DC pass in trunk line. Class A + 10 dB | 20/120 |
| 142040 | DQCF 420 | 4 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 20dB. Insertion loss: 1,5dB (862 MHz) / 2,1dB (2400 MHz). DC pass in trunk line. Class A + 10 dB | 20/120 |
| 142041 | DQCF 424 | 4 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 24dB. Insertion loss: 1,3dB (862 MHz) / 2dB (2400 MHz). DC pass in trunk line. Class A + 10 dB   | 20/120 |
| 142042 | DQCF 616 | 6 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 16dB. Insertion loss: 4dB (862 MHz) / 4,4dB (2400 MHz). DC pass in trunk line. Class A + 10 dB   | 10/60  |
| 142043 | DQCF 620 | 6 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 20dB. Insertion loss: 2,7dB (862 MHz) / 3,9dB (2400 MHz). DC pass in trunk line. Class A + 10 dB | 10/60  |
| 142044 | DQCF 624 | 6 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 24dB. Insertion loss: 1,8dB (862 MHz) / 2,8dB (2400 MHz). DC pass in trunk line. Class A + 10 dB | 10/60  |
| 142045 | DQCF 816 | 8 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 16dB. Insertion loss: 4dB (862 MHz) / 4,4dB (2400 MHz). DC pass in trunk line. Class A + 10 dB   | 10/60  |
| 142046 | DQCF 820 | 8 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 20dB. Insertion loss: 2,7dB (862 MHz) / 3,9dB (2400 MHz). DC pass in trunk line. Class A + 10 dB | 10/60  |
| 142047 | DQCF 824 | 8 outputs A class tap. Passband: 5-2400 MHz. Tap loss: 24dB. Insertion loss: 1,8dB (862 MHz) / 2,8dB (2400 MHz). DC pass in trunk line. Class A + 10 dB | 10/60  |

### QuiCoax MIX-DEMIX TV-SAT

|        |        |                                                                                                                         |        |
|--------|--------|-------------------------------------------------------------------------------------------------------------------------|--------|
| 131005 | MQC TS | QUICOAX / Mixer/ demixer 2 inputs TER-SAT. Insertion loss: 1dB (TER) / 1,5dB (SAT). DC pass in SAT input. A +10dB Class | 10/120 |
|--------|--------|-------------------------------------------------------------------------------------------------------------------------|--------|

### QuiCoax-F MIX-DEMIX TV-SAT

|        |         |                                                                                                                           |        |
|--------|---------|---------------------------------------------------------------------------------------------------------------------------|--------|
| 131006 | MQCF TS | QUICOAX / F Mixer/ demixer 2 inputs TER-SAT. Insertion loss: 1dB (TER) / 1,5dB (SAT). DC pass in SAT input. A +10dB Class | 10/120 |
|--------|---------|---------------------------------------------------------------------------------------------------------------------------|--------|

### QuiCoax ACCESSORIES

|        |         |                                                        |          |
|--------|---------|--------------------------------------------------------|----------|
| 163003 | CQC 75  | 75 Ohm load for QUICOAX devices                        | 25/1000  |
| 163008 | CQC 75A | 75 Ohm isolated load for QUICOAX devices               | 25/1000  |
| 163004 | AQC F   | Male QUICOAX adapter to F female                       | 25/1000  |
| 167004 | PC QC   | Cable stripping tool for QUICOAX, 2 steps              | 1/50     |
| 167007 | PCA 4QC | Cable stripping tool compatible with QUICOAX           | 1        |
| 163006 | BL QC   | Blocker/stopper for high traction requirements         | 100/1000 |
| 059001 | AMCD    | DIN rail fixing accessory (for QuiCoax and amplifiers) | 1/1000   |



### QuiCoax WALL-SOCKETS

|        |                     |                                                                                                                                                                                                                                                     |        |
|--------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 145103 | TF QC1G<br><b>E</b> | Wall-socket, terminal derivation with brackets, DATA-TV. Frequency: DATA (5-65 MHz) / FM (88-108MHz) / TV (120-1000 MHz). Tap loss: <1dB (DATA) / <1.5dB (TV). Cable connection by QuiCoax insertion. A Class                                       | 10/100 |
| 145102 | TF QC2W<br><b>E</b> | Wall-socket, terminal derivation without brackets. TV-RD / SAT with 2 IEC connectors. Frequency: TV 5-694MHz / SAT with DC pass SAT. Tap loss: <1dB (TV-RD) / <1.5dB (SAT). QuiCoax connection. A Class                                             | 10/100 |
| 145101 | TF QC3<br><b>E</b>  | Wall-socket, terminal derivation with brackets and 2xIEC + 1xF connectors. TV/ RD/SAT. Frequency: TV 5-65 / 120-790MHz / RD 88-108MHz / SAT 950-2400MHz with DC pass SAT. Tap loss: <1dB (TV) / <4dB RD / <1.5dB (SAT). QuiCoax connection. A Class | 10/100 |
| 145105 | APL<br><b>E</b>     | Drywall installation accessory                                                                                                                                                                                                                      | 10/100 |

### QuiCoax CONNECTOR

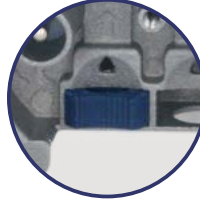
|        |      |                                      |        |
|--------|------|--------------------------------------|--------|
| 146001 | CFQC | QUICOAX F-connector. BL QC included. | 25/500 |
|--------|------|--------------------------------------|--------|

## THE FASTER AND RELIABLE CONNECTION

Push, insert ... and  
you're done



WALL-SOCKETS  
TFQC



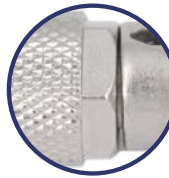
QuiCoax  
button  
detail with  
inspection  
window



CFQC  
CONNECTOR



CFQC knurled  
head for better  
grip



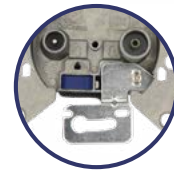
Integrated  
nut for tool  
tightening



TF QC2W



APL



CFQC



Application  
of the BL QC  
blocker in  
the QuiCoax  
connector

### SPLITTERS

#### 1000 MHz

|        |       |                                                                                                               |        |
|--------|-------|---------------------------------------------------------------------------------------------------------------|--------|
| 141007 | RT 12 | 2 outputs A Class splitter. Frequency range: 5-1000 MHz. Insertion loss: 3,8dB (1000 MHz). All ports DC pass. | 10/120 |
|--------|-------|---------------------------------------------------------------------------------------------------------------|--------|

#### 5-2400 MHz

|        |       |                                                                                                                                                                                                        |        |
|--------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 141006 | RI 2  | 2 outputs A class splitter. Frequency range: 5-2400 MHz. Insertion loss: 3,8dB (862 MHz) / 4,9dB (2400 MHz). All ports DC pass. All connectors in one side. Compatible with PMM (outdoor installation) | 10/120 |
| 141001 | RF 12 | 2 outputs A class splitter. Frequency range: 5-2400 MHz. Insertion loss: 3,8dB (862 MHz) / 4,9dB (2400 MHz). All ports DC pass.                                                                        | 10/120 |
| 141002 | RF 13 | 3 outputs A class splitter. Frequency range: 5-2400 MHz. Insertion loss: 7dB (862 MHz) / 9,5dB (2400 MHz). All ports DC pass.                                                                          | 10/120 |
| 141003 | RF 14 | 4 outputs A class splitter. Frequency range: 5-2400 MHz. Insertion loss: 8,1dB (862 MHz) / 10dB (2400 MHz). All ports DC pass.                                                                         | 10/120 |
| 141004 | RF 16 | 6 outputs A class splitter. Frequency range: 5-2400 MHz. Insertion loss: 11dB (862 MHz) / 14,5dB (2400 MHz). All ports DC pass.                                                                        | 5/60   |
| 141005 | RF 18 | 8 outputs A class splitter. Frequency range: 5-2400 MHz. Insertion loss: 12dB (862 MHz) / 15,5dB (2400 MHz). All ports DC pass.                                                                        | 5/60   |



RI 2



RF 12 / RT 12



RF 13



RF 16





DF 212



DF 412



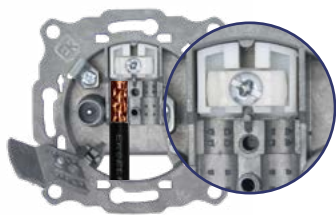
DF 816



PAU 4



PAU 8



TF D



TF DW

## CLASS A TAPS

|        |        |                                                                                                                                                        |        |
|--------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 142001 | DF 212 | 2 outputs A class tap. Frequency range: 5-2400 MHz. Tap loss: 12dB. Insertion loss: 2,2dB (862 MHz) / 3,5dB (2400 MHz). DC pass in trunk line. Class A | 10/120 |
| 142002 | DF 216 | 2 outputs A class tap. Frequency range: 5-2400 MHz. Tap loss: 16dB. Insertion loss: 1,6dB (862 MHz) / 2,6dB (2400 MHz). DC pass in trunk line. Class A | 10/120 |
| 142003 | DF 220 | 2 outputs A class tap. Frequency range: 5-2400 MHz. Tap loss: 20dB. Insertion loss: 1,1dB (862 MHz) / 2,6dB (2400 MHz). DC pass in trunk line. Class A | 10/120 |
| 142004 | DF 224 | 2 outputs A class tap. Frequency range: 5-2400 MHz. Tap loss: 24dB. Insertion loss: 1dB (862 MHz) / 2,3dB (2400 MHz). DC pass in trunk line. Class A   | 10/120 |
| 142005 | DF 412 | 4 outputs A class tap. Frequency range: 5-2400 MHz. Tap loss: 12dB. Insertion loss: 3,2dB (862 MHz) / 4,5dB (2400 MHz). DC pass in trunk line. Class A | 10/120 |
| 142006 | DF 416 | 4 outputs A class tap. Frequency range: 5-2400 MHz. Tap loss: 16dB. Insertion loss: 1,8dB (862 MHz) / 3,5dB (2400 MHz). DC pass in trunk line. Class A | 10/120 |
| 142007 | DF 420 | 4 outputs A class tap. Frequency range: 5-2400 MHz. Tap loss: 20dB. Insertion loss: 1,5dB (862 MHz) / 2,1dB (2400 MHz). DC pass in trunk line. Class A | 10/120 |
| 142008 | DF 424 | 4 outputs A class tap. Frequency range: 5-2400 MHz. Tap loss: 24dB. Insertion loss: 1,3dB (862 MHz) / 2dB (2400 MHz). DC pass in trunk line. Class A   | 10/120 |
| 142009 | DF 816 | 8 outputs A class tap. Frequency range: 5-2400 MHz. Tap loss: 16dB. Insertion loss: 3,8dB (862 MHz) / 4,9dB (2400 MHz). DC pass in trunk line. Class A | 5/60   |
| 142010 | DF 820 | 8 outputs A class tap. Frequency range: 5-2400 MHz. Tap loss: 20dB. Insertion loss: 1,9dB (862 MHz) / 3,2dB (2400 MHz). DC pass in trunk line. Class A | 5/60   |
| 142011 | DF 824 | 8 outputs A class tap. Frequency range: 5-2400 MHz. Tap loss: 24dB. Insertion loss: 1,4dB (862 MHz) / 2,1dB (2400 MHz). DC pass in trunk line. Class A | 5/60   |

## PAUs CLASS A

|        |       |                                                                                                                               |        |
|--------|-------|-------------------------------------------------------------------------------------------------------------------------------|--------|
| 143001 | PAU 4 | PAU-splitter 4-way. Frequency range: 5-2400 MHz. Insertions loss: 8,1dB (862 MHz) / 10dB (2400 MHz). With DC pass. A Class    | 10/120 |
| 143003 | PAU 6 | PAU-splitter 6-way. Frequency range: 5-2400 MHz. Insertions loss: 10,5dB (862 MHz) / 14,5dB (2400 MHz). With DC pass. A Class | 5/60   |
| 143002 | PAU 8 | PAU-splitter 8-way. Frequency range: 5-2400 MHz. Insertion loss: 12,5dB (862 MHz) / 16,5dB (2400 MHz). With DC pass. A Class. | 5/60   |

## WALL-SOCKETS

## FINAL OF DERIVATION WITH TV-SAT FILTER

|        |       |                                                                                                                                                                                                              |        |
|--------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 145001 | TF D  | Wall-socket for end of derivation with brackets. TV-RD / SAT with 2 IEC connectors. Frequency: TV-RD / SAT with SAT current pass. Tap loss: <1dB (TV-RD) / <1,5dB (SAT). Cable fixing by screw on plastic    | 10/100 |
| 145002 | TF DW | Wall-socket for end of derivation without brackets. TV-RD / SAT with 2 IEC connectors. Frequency: TV-RD / SAT with SAT current pass. Tap loss: <1dB (TV-RD) / <1,5dB (SAT). Cable fixing by screw on plastic | 10/100 |

## FINAL OF DERIVATION 1GHz

|        |                   |                                                                                                                                                                                                                             |        |
|--------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 145021 | TF 1G<br><b>N</b> | Wall socket for end of derivation with clamps, DATA-TV. Frequency: DATA (5-65 MHz) / FM (88-108 MHz) / TV (120-1000 MHz). Tap attenuation: <1dB (DATA) / <1.5dB (TV). Cable conductor fixation by quick insertion. Class A. | 10/100 |
|--------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|

## FINAL OF DERIVATION WITH TV-SAT FILTER AND QUICK INSERTION

|        |                        |                                                                                                                                                                                                                               |        |
|--------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 145006 | TF DI                  | Wall-socket for end of derivation with brackets. TV-RD / SAT with 2 IEC connectors. Frequency: TV-RD / SAT with SAT current pass. Tap loss: <1dB (TV-RD) / <1.5dB (SAT). Cable fixing by quick insertion                      | 10/100 |
| 145007 | TF DIW                 | Wall-socket for end of derivation without brackets. TV-RD / SAT with 2 IEC connectors. Frequency: TV-RD with SAT current pass. Tap loss: <1dB (TV-RD) / <1.5dB (SAT). Cable fixing by quick insertion                         | 10/100 |
| 145009 | TF DIW-100<br><b>N</b> | Wall socket for end of derivation without clamps, TV-RD / SAT with 2 IEC connectors. Frequency: TV-RD / SAT with SAT current pass. Tap attenuation: <1dB (TV-RD) / <1.5dB (SAT). Cable conductor fixation by quick insertion. | 100    |

## CASCADABLE LOW LOSSES WITH TV-SAT FILTER

|        |       |                                                                                                                                                                                                                                                             |        |
|--------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 145008 | TCI-5 | Intermediate wall-socket base with claws, TV-RD / SAT with 2 IEC connectors. Frequency: TV-RD (5-862 MHz) / SAT (950-2400 MHz) with SAT current pass. Branch attenuation: <5dB (TV-RD) / <6dB (SAT). Passage losses <5,5dB. Cable fixing by quick insertion | 10/100 |
|--------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|

## UNIVERSAL CASCADABLES TV-SAT / TV-SAT

|        |        |                                                                                                                                                                                                                                                                       |        |
|--------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 145003 | TU F4  | Wall-socket for cascade termination with brackets, with 2 universal IEC connectors TV-RD-SAT. Frequency: 5-2400 MHz. Tap loss: <3dB (TV-RD) / <4dB (SAT). Cable fixing by screw on plastic                                                                            | 10/100 |
| 145004 | TU C10 | Wall-socket intermediate for cascade installation with brackets, with 2 universal IEC connectors TV-RD-SAT. Frequency: 5-2400 MHz. Derivation attenuation: 10dB (TV-RD) / 12dB (SAT). Insertion loss: <2,9dB (TV-RD) / <3,2dB (SAT). Cable fixing by screw on plastic | 10/100 |
| 145005 | TU C15 | Wall-socket intermediate for cascade installation with brackets, with 2 universal IEC connectors TV-RD-SAT. Frequency: 5-2400 MHz. Derivation attenuation: 13dB (TV-RD) / 15dB (SAT). Insertion loss: <2,9dB (TV-RD) / <3,2dB (SAT). Cable fixing by screw on plastic | 10/100 |

## OUTLETS ACCESSORIES

|        |       |                                                        |        |
|--------|-------|--------------------------------------------------------|--------|
| 144003 | MTB   | Frame for TV socket with 2 connectors. White color     | 20/200 |
| 144004 | SSB   | Supplement for surface TV socket mounting. White color | 10/100 |
| 144008 | MTB 3 | Frame for TV socket with 3 connectors. White color     | 20/200 |

## EK ROLLER COAXIAL CABLES

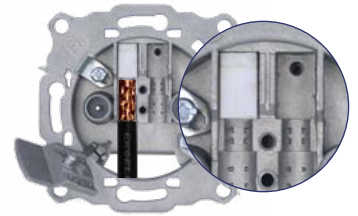
## EK ROLLER

|        |            |                                                                                                              |   |
|--------|------------|--------------------------------------------------------------------------------------------------------------|---|
| 151062 | EK ROLLER+ | Cable unroller / roller device for coaxial cable compatible with Ek roller. With weight stabilizer accessory | 1 |
|--------|------------|--------------------------------------------------------------------------------------------------------------|---|

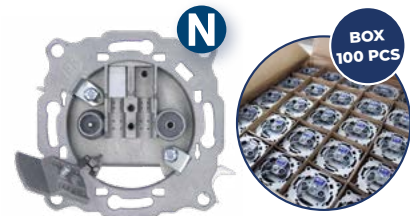
# Ek ROLLER +

**Ek Roller** is a new concept of cable dispenser patented by EK that presents unique advantages in the market. Its low weight and size allows it to be stored in the toolbox and it makes it very easy to use in any situation and environment. Thanks to its robust steel structure, supports both light reels of less than 1kg and reels of more than 30kg

- ✓ The quick fixing system to the reel allows an easy and toolless swap in just two seconds
- ✓ Once fixed, it is automatically integrated into the exclusive EK reel with handle, which makes it even easier to use and portable
- ✓ EK Roller allows not only the unwinding of cable by simply pulling it, but also makes it easy the tedious task of winding the excess cable at the end of the installation
- ✓ The EK reels compatible with EK Roller also consist of an innovative system that prevents the excess cable from becoming entangled and guarantees a fluid unwinding of the same
- ✓ It includes an accessory that adds weight to optimize the rotation of light or low-cable coils. It is optimized for the PFR and PCR range of PAUs, and can also be used with other compatible light reels for Ek Roller.



TF DI



TF DIW-100



SSB



MTB 3



Access the EK  
ROLLER demo  
video



EK ROLLER+



EK ROLLER + COIL UNWINDING

## Ek ROLLER



CLASS A CPR Eca

CCR 596-150

## Ek ROLLER



CLASS A CPR Dca

CCR 128D

## Ek ROLLER



CLASS A CPR Fca/PE

CCR 128 N

## Ek ROLLER



CLASS A CPR Eca

CCR 3S

## Ek ROLLER



CLASS A CPR Fca/PE

CCR 11T

## Ek ROLLER



CLASS A CPR Dca

CCR 96D

CLASS A CPR Dca

CCR 96D-250



EK ROLLER REEL HANDLE

## CCS CONDUCTOR - AL FOIL AND BRAID FOR SMATV EK ROLLER

|        |               |                                                                                                                                                                                                                            |                         |
|--------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 151048 | CCR 596-150   | Coaxial cable 5,0 mm diameter. 96 wires. Inner conductor CCS 0,8mm. Shielding 90dB/A class. Attenuation: 25,2dB (862 MHz) / 39,9dB (2150 MHz). PVC white jacket CPR Eca. <b>150 m cardboard reel</b> for EK ROLLER.        | 600<br>10.800<br>21.600 |
| 151070 | CCR 128D<br>N | Coaxial cable. 6,9 mm diameter. Inner conductor CCS. 128 wires. Shielding 90dB/ A class. Attenuation: 17,5dB (862 MHz) / 28,5dB (2150 MHz). Jacket LSZH white color. CRP Dca s2 d2 a2. <b>100 m carton spool</b> Ek ROLLER | 400<br>7200<br>14400    |
| 151052 | CCR 128 N     | Coaxial cable 6,8 mm diameter. 128 wires. Inner conductor CCS 1,13mm. Shielding 90dB/A class. Attenuation: 17,5dB (862 MHz) / 28,5dB (2150 MHz). PE black jacket. <b>100 m cardboard reel</b> for EK ROLLER.               | 400<br>7200<br>14400    |

## TRI-SHIELD / CCS CONDUCTOR - AL FOIL AND BRAID FOR CATV EK ROLLER

|        |         |                                                                                                                                                                                                                                  |                        |
|--------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 151053 | CCR 3S  | Trishield coaxial cable 6,9 mm diameter. 128 wires. Inner conductor CCS 1,13mm. Shielding 110dB/ A+ class. Attenuation: 17,5dB (862 MHz) / 28,5dB (2150 MHz). PVC white jacket. CPR Eca. <b>250 m wooden drum</b> for EK ROLLER. | 250<br>9.000<br>18.000 |
| 151054 | CCR 11T | Trishield Coaxial cable 10,16 mm diameter. 128 wires. Inner conductor 1,63 CCS. Shielding 110dB/A class. Attenuation: 11,9dB (862 MHz) / 19,8 dB (2150 MHz). PE black jacket. <b>300 m wooden drum</b> for EK ROLLER.            | 300<br>7200            |

## CU CONDUCTOR - CCA FOIL AND BRAID / CPR DCA FOR EK ROLLER

|        |                |                                                                                                                                                                                                                          |                         |
|--------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 151049 | CCR 596 CU-150 | Coaxial cable 5,0 mm diameter. 96 wires. Inner conductor CU 0,8 mm. 90 dB / class A shielding. Attenuation: 25,2 dB (862 MHz) / 39,9 dB (2150 MHz). PVC white jacket CPR Dca. <b>150 m cardboard reel</b> for EK ROLLER. | 600<br>10.800<br>21.600 |
|--------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|

## CU CONDUCTOR - CU FOIL AND CCA BRAID / CPR DCA FOR EK ROLLER

|        |               |                                                                                                                                                                                                                        |                        |
|--------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 151039 | CCR 96D       | Coaxial cable 6,8 mm diameter. 96 wires. Inner conductor Cu 1,02 mm. Shielding 85dB/A class. Attenuation: 17,9dB (862 MHz) / 29,6dB (2150 MHz). LSZH white jacket. CPR Dca. <b>100m cardboard reel</b> for EK ROLLER   | 400<br>7200<br>14400   |
| 151040 | CCR 96D-250   | Coaxial cable 6,8 mm diameter. 96 wires. Inner conductor Cu 1,02 mm. Shielding 85dB/A class. Attenuation: 17,9dB (862 MHz) / 29,6dB (2150 MHz). LSZH white jacket CPR Dca. <b>250m wooden drum</b> for EK ROLLER.      | 250<br>9.000<br>18.000 |
| 151041 | CCR 96N       | Coaxial cable 6,8 mm diameter. 96 wires. Inner conductor Cu 1,02 mm. Shielding 85dB/A class. Attenuation: 17,9dB (862 MHz) / 29,6dB (2150 MHz). PE black jacket. <b>100m cardboard reel</b> for EK ROLLER.             | 400<br>7200<br>14400   |
| 151057 | CCR 96N-250   | Coaxial cable 6,8 mm diameter. 96 wires. Inner conductor Cu 1,02 mm. Shielding 85dB/A class. Attenuation: 17,9dB (862 MHz) / 29,6dB (2150 MHz). PE black jacket. <b>250m wooden drum</b> for EK ROLLER.                | 250<br>9.000<br>18.000 |
| 151042 | CCR 96+D      | Coaxial cable 6,8 mm diameter. 96 wires. Inner conductor Cu 1,13mm. Shielding 85dB/A class. Attenuation: 17,4dB (862MHz) / 28,4dB (2150MHz). LSZH white jacket CPR Dca. <b>100m cardboard reel</b> for EK ROLLER.      | 400<br>7200<br>14400   |
| 151044 | CCR 96+D-250  | Coaxial cable 6,8 mm diameter. 96 wires. Inner conductor Cu 1,13mm. Shielding 85dB/A class. Attenuation: 17,4dB (862MHz) / 28,4dB (2150MHz). LSZH white jacket CPR Dca. <b>Wooden drum 250m</b> for EK ROLLER          | 250<br>9.000<br>18.000 |
| 151043 | CCR 96G+D     | Coaxial cable 6,8 mm diameter. 96 wires. Inner conductor Cu 1,13mm. Shielding 85dB/A class. Attenuation: 17,4dB (862MHz) / 28,4dB (2150MHz). LSZH grey color jacket CPR Dca. <b>100m cardboard reel</b> for EK ROLLER. | 400<br>7200<br>14400   |
| 151045 | CCR 96G+D-250 | Coaxial cable 6,8 mm diameter. 96 wires. Inner conductor Cu 1,13mm. Shielding 85dB/A class. Attenuation: 17,4dB (862MHz) / 28,4dB (2150MHz). LSZH grey color jacket CPR Dca. <b>Wooden drum 250m</b> for EK ROLLER.    | 250<br>9.000<br>18.000 |

|        |              |                                                                                                                                                                                                                    |                        |
|--------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 151046 | CCR 96N+     | Coaxial cable 6,8 mm diameter. 96 wires. Inner conductor Cu 1,13mm. Shielding 85dB/A class. Attenuation: 17,4dB (862MHz) / 28,4dB (2150MHz). PE black jacket. <b>100m cardboard reel</b> for EK ROLLER.            | 400<br>7200<br>14400   |
| 151058 | CCR 96N+ 250 | Coaxial cable 6,8 mm diameter. 96 wires. Inner conductor Cu 1,13mm. Shielding 85dB/A class. Attenuation: 17,4dB (862MHz) / 28,4dB (2150MHz). PE black jacket. <b>250m wooden drum</b> for EK ROLLER.               | 250<br>9.000<br>18.000 |
| 151055 | CCR 11 CU    | Coaxial cable 10,03mm diameter. 128 wires. Inner conductor CU 1,63mm. Screening 90dB / class A. Attenuation: 11,9dB (862MHz) / 19,8dB (2150MHz). Black PE jacket. <b>Wooden drum 300m</b> for EK ROLLER            | 300<br>7200            |
| 151056 | CCR 11 CU D  | Coaxial cable 10,03mm diameter. 128 wires. Inner conductor CU 1,63mm. Screening 90dB / class A. Attenuation: 11,9dB (862MHz) / 19,8dB (2150MHz). White LSZH jacket CPR Dca. <b>Wooden drum 300m</b> for EK ROLLER. | 300<br>7200            |

#### CCS CONDUCTOR - AL BONDED FOIL AND AL BRAID FOR SMATV

|        |                |                                                                                                                                                                                                                                   |                        |
|--------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 151051 | CCR 112P-D-250 | Coaxial cable 6,8 mm diameter. 112 wires. Inner conductor CCS 1,02 mm. Shielding 90dB/A class. Attenuation: 17,9dB (862 MHz) / 29,6dB (2150 MHz). Bonded Foil. LSZH white jacket CPR Dca . <b>250m wooden drum</b> for EK ROLLER. | 250<br>9.000<br>18.000 |
|--------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|

#### COAXIAL CABLE 25m

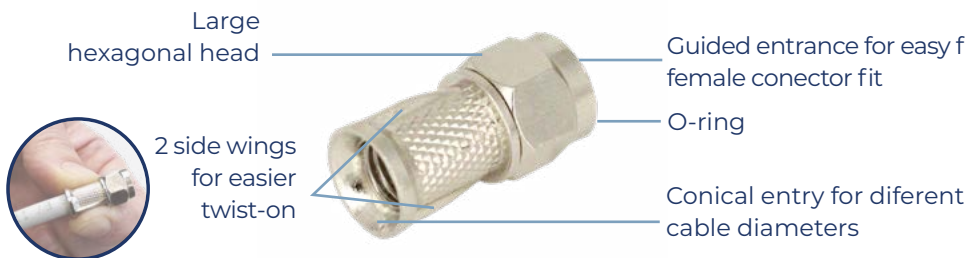
|        |           |                                                                                                                                                                                               |     |
|--------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 151036 | CC 128/25 | Coaxial cable 6,9 mm diameter. 128 wires. Inner conductor CCS 1,13 mm. Shielding 90dB/ A class. Attenuation: 17,5dB (862 MHz) / 28,5dB (2150 MHz). PVC white jacket CPR Eca. <b>25m coil.</b> | 400 |
|--------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|

#### CONNECTORS AND ACCESSORIES

##### TWIST-ON WITH WINGS F CONNECTORS

|        |            |                                                                                                 |          |
|--------|------------|-------------------------------------------------------------------------------------------------|----------|
| 162017 | CFR 5 EK   | Twist-on with wings F-connector male for 4,8-5,2 mm cable, with O-ring                          | 50/2000  |
| 162015 | CFR 6 EK   | Twist-on with wings F-connector male for 6,6-7,3 mm cable, with O-ring                          | 50/2000  |
| 162020 | CFR 6 EK-B | Twist-on with wings F-connector male for 6,6-7,3mm cable, with O-ring. Plastic bottle packaging | 100/2000 |

#### Advantages of new patented CFR 5 EK and CFR 6 EK connectors



#### Ek ROLLER



**CLASS A** CPR Dca

**CCR 96G+D**

**CLASS A** CPR Dca

**CCR 96G+D 250**

#### Ek ROLLER



**CLASS A** CPR Fca/PE

**CCR 96N+**

**CLASS A** CPR Fca/PE

**CCR 96N+ 250**

#### Ek ROLLER



**CLASS A** CPR Dca

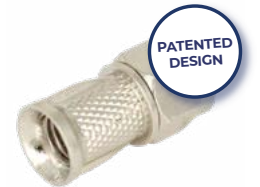
**CCR 11 CU**

**CLASS A** CPR Dca

**CCR 11 CUD**



**CFR 5 EK**



**CFR 6 EK**



**CFR 6 EK-B**





EKEY



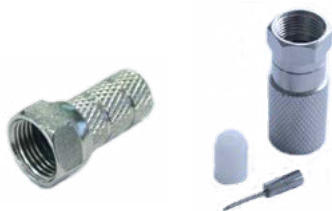
Ek DRIVER



FUNDA EK DRIVER



Access the Ekey  
and EK DRIVER  
demo video



CFR 5

CFR 11



CCP 6

CCP 11



C95M EK



C95H EK

## ACCESSORIES FOR TWIST-ON F-CONNECTORS WITH WINGS

|        |           |                                                                                |      |
|--------|-----------|--------------------------------------------------------------------------------|------|
| 167005 | EKEY      | Special key for CFR EK connectors. Standalone use or compatible with EK DRIVER | 1/25 |
| 167006 | EK DRIVER | Automatic screwdriver with bits and accessories. Contains EKEY                 | 1/32 |

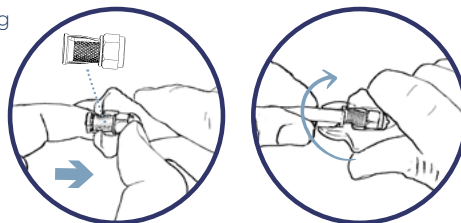
**EKey** is an exclusive EK tool, designed to make it even easier to assemble the patented CFR6EK and CFR5EK F-type connectors. EKey consists of an ergonomically designed handle that adapt to the installer's hand and allow a very easy assembly. But the most revolutionary feature of EKey is its compatibility with electric drills and screwdrivers. Among them the EKdriver, achieving a connector assembly practically instantaneous and without any effort. EKey allows a much greater threading force to be applied than in a conventional twist-on connector and makes it possible to assemble even on larger diameter cables such as trishield type (CC3S).

As an additional feature and perfect complement to help the installer, **EKey** is equipped with an 11mm fixed wrench for F connectors. Unlike metal wrenches that can damage equipment if excessive torque is applied, EKey is made of high-strength nylon and its elasticity gives it simple and effective torque control.

**Ek driver** is an electric screwdriver specially designed for use together with the **EKey** tool for F-type connectors assembly references CFR6EK and CFR5EK. Its ergonomic design and size are similar to a conventional screwdriver which makes it ideal for every installer to carry in their toolbox. It is compatible with standard hexagonal 6mm bits and it is supplied in a complete case with charger, bits set and an **EKey** key.

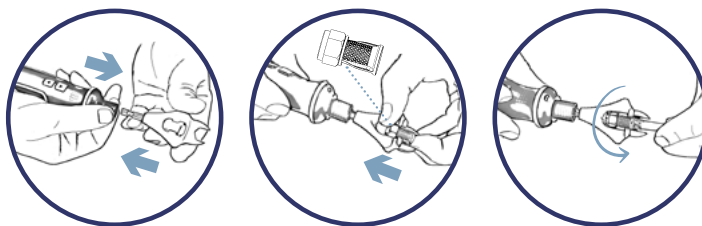
## Assembling CFR 5 EK / CFR 6 EK connectors with Ekey

Ekey for hand assembling



Ekey with EK DRIVER\*

\*Electric drills can be used at low speed



## TWIST-ON F CONNECTORS

|        |        |                                                                |        |
|--------|--------|----------------------------------------------------------------|--------|
| 161006 | CFR 11 | F male twist-on connector with O-ring for 11 mm cable (CCR 11) | 50/400 |
|--------|--------|----------------------------------------------------------------|--------|

## COMPRESSION F TYPE

|        |        |                                                                                                |          |
|--------|--------|------------------------------------------------------------------------------------------------|----------|
| 168001 | CCP 6  | Compression F male connector for 7 mm cable. Compatible with CCR 96, CCR 128 and CCR 3S cables | 250/1000 |
| 168002 | CCP 11 | Compression F male connector for 11 mm cable. Compatible with CCR 11 cable                     | 50/400   |

## IEC TYPE CLASS A++

|        |          |                                                                                                                                                                                                                                  |         |
|--------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 162018 | C95M EK  | 90° IEC 9,5 mm male connector for 6,6-6,9 mm cable (CCR 128 / CCR 3S). Quick pressure connection. First 90° metal connector on the market made from a single block of zamak. Patented design by EK ensures A++ class shielding   | 25/1000 |
| 162019 | C95H EK  | 90° IEC 9,5 mm female connector for 6,6-6,9 mm cable (CCR 128 / CCR 3S). Quick pressure connection. First 90° metal connector on the market made from a single block of zamak. Patented design by EK ensures A++ class shielding | 25/1000 |
| 162012 | C 95 M49 | 90° IEC 9,5 mm male connector for 4,7-5,1 mm cable (CCR 596). Quick pressure connection. First 90° metal connector on the market made from a single block of zamak. Patented design by EK ensures A++ class shielding            | 25/1000 |



|        |          |                                                                                                                                                                                                                         |         |
|--------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 162013 | C 95 H49 | 90° IEC 9,5 mm female connector for 4,7-5,1 mm cable (CCR 596). Quick pressure connection. First 90° metal connector on the market made from a single block of zamak. Patented design by EK ensures A++ class shielding | 25/1000 |
|--------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|

## IEC TYPE BASIC

|        |         |                                                                                                       |        |
|--------|---------|-------------------------------------------------------------------------------------------------------|--------|
| 162008 | C 95P-M | 90° IEC 9,5 mm male connector for 6,6-7,0 mm cable (CCR 112 / CCR 96 / CCR 35). Connection by screw   | 25/250 |
| 162009 | C 95P-H | 90° IEC 9,5 mm female connector for 6,6-7,0 mm cable (CCR 112 / CCR 96 / CCR 35). Connection by screw | 25/250 |

## QUICK-F ANGLE TYPE

|        |           |                                                                                                             |        |
|--------|-----------|-------------------------------------------------------------------------------------------------------------|--------|
| 161002 | CF 90     | A class 90° F male connector for 6,9 - 7,3 mm cable (CCR 128 / CCR 35). Quick pressure connection           | 36/432 |
| 161009 | CF 90 - 6 | A class 90° F male connector for 6,6 - 6,9 mm cable (CCR 112 / CCR 96 / CCR 128). Quick pressure connection | 36/432 |

## F TYPE LOADS

|        |           |                                    |        |
|--------|-----------|------------------------------------|--------|
| 163001 | CF 2150   | F male 75 ohms terminator          | 25/200 |
| 163002 | CF 2150 A | F male 75 ohms isolated terminator | 25/200 |

## ADAPTERS

|        |        |                                        |        |
|--------|--------|----------------------------------------|--------|
| 165001 | AFF    | F female - F female adapter            | 25/250 |
| 165006 | FFQ    | F female - F male quick adapter        | 25/250 |
| 165002 | AFI    | F female - IEC male adapter            | 25/200 |
| 165012 | AFI H  | F female - IEC female adapter          | 25/200 |
| 165005 | AFI 90 | F female - IEC male adapter. 90° angle | 25/200 |
| 165007 | IEC MM | IEC male - IEC male adapter            | 25/250 |
| 165008 | IEC HH | IEC female - IEC female adapter        | 25/250 |
| 166001 | RFF    | Quick F to 2 F connector splitter      | 10/400 |

## ATTENUATOR

|        |     |                                                                                                |      |
|--------|-----|------------------------------------------------------------------------------------------------|------|
| 164002 | ATS | Variable attenuator with F-connector. Frequency: 45-2300MHz. Attenuation: 0-20dB. With DC pass | 1/30 |
|--------|-----|------------------------------------------------------------------------------------------------|------|

## IEC CABLES

|        |                                                                                         |                                                              |       |
|--------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------|-------|
| 169001 | PTV  | IEC male to IEC female extension cable. Class A. 1.5 meters. | 1/200 |
|--------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------|-------|

## TOOLS

|        |         |                                                              |      |
|--------|---------|--------------------------------------------------------------|------|
| 167001 | PCA     | Cable stripping tool for coaxial cables                      | 1/25 |
| 167007 | PCA 4QC | Cable stripping tool compatible with QUICOAX                 | 1    |
| 167004 | PC QC   | Cable stripping tool for QUICOAX, 2 steps                    | 1/50 |
| 167002 | MCP 511 | Compression tool for compression connectors CCP 6 and CCP 11 | 1/10 |
| 167003 | HT 3    | Cutting and assembling tool for compression connectors       | 1/25 |
| 210005 | LCF     | Tool for F connector                                         | 1/50 |

IEC CLASS A++ CONNECTORS  
EXCEEDING YOUR EXPECTATIONS

EK introduces the first 90° metal connector on the market made of a single zamak block. This range of right-angled IEC 9.5mm connectors are manufactured in a single piece without openings and with continuous shielding. This patented design by EK gives them the highest shielding on the market (Class A++).



C 95 M49 - C 95 H49



C 95P-M

C 95P-H



CF 2150

CF 2150 A



AFF

AFI



AFI 90

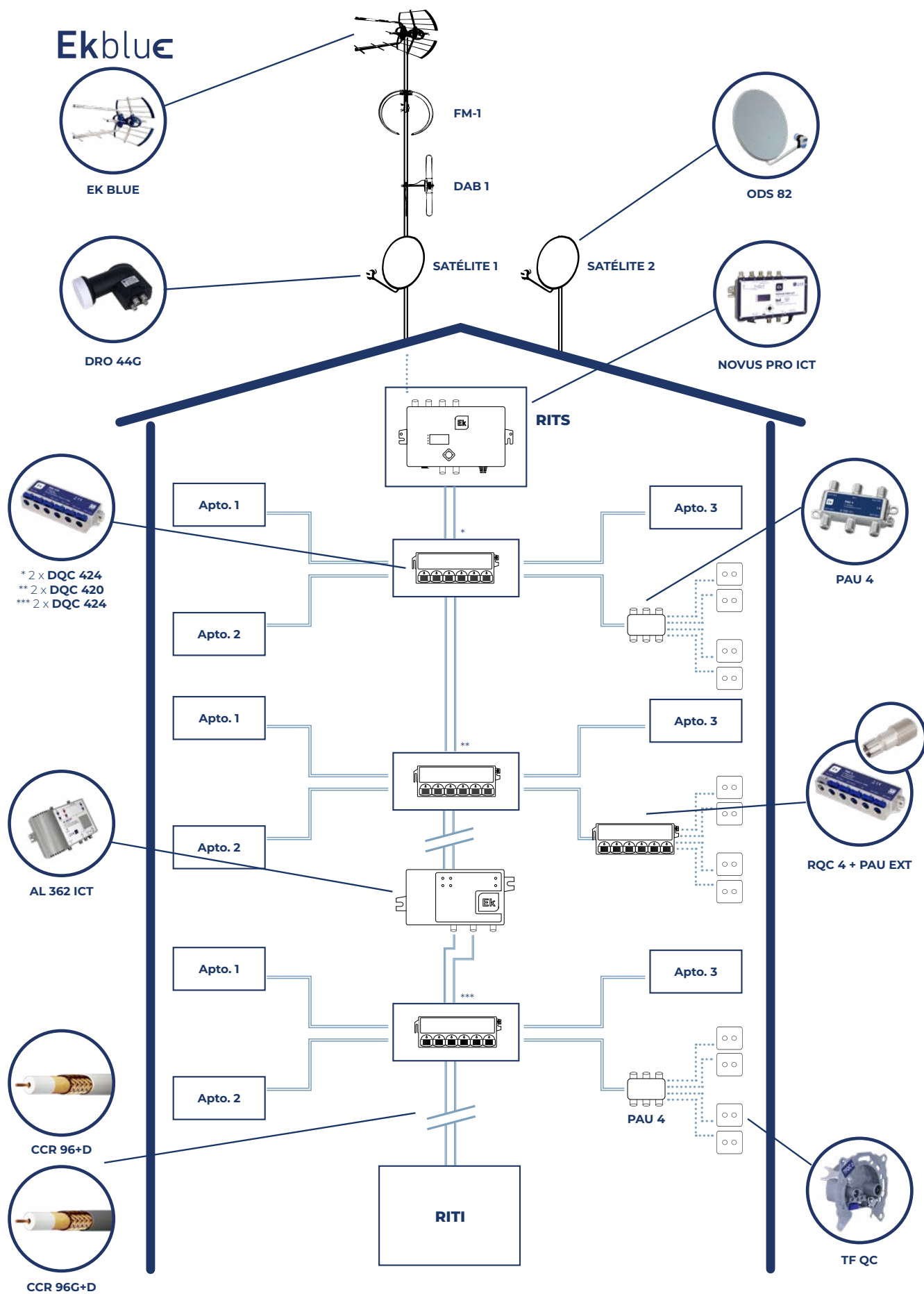
RFF



PTV



## EXAMPLE OF SMATV INSTALLATION



A background image featuring a dense field of fiber optic cables. In the lower right, a clear plastic fiber optic connector is visible, with its internal fibers and a green protective cap. The overall color palette is a mix of deep blues and light, hazy blues, with a white grid overlaying the image.

# 02

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FIBER OPTICS AND  
LAN / DATA  
DISTRIBUTION





RP FO



ARP



BF 48 C



Bandeja rack extraíble de gran robustez



R6 19 450



PP 24 S



KJ C6 HQ



KJ C6A



KJ C6A-TL



KJ C6A-FTL



SC KJ M



FF KJ

## TRANSMITTERS, EDFAs, RECEIVERS, AND OPTICAL SPLITTERS

See complete range in FAMILY 06 CATV / HFC TRANSMISSION - OPTICAL RECEPTION / ICT2 **page 53**

## CABINETS AND ACCESSORIES

### MULTI OPERATOR FIBER CABINET

|        |       |                                                                                                    |      |
|--------|-------|----------------------------------------------------------------------------------------------------|------|
| 396012 | RP FO | 2-zone cabinet for 48 SC/APC adapters. 2 trays for up to 48 fusions. 2 doors with independent keys | 1/4  |
| 396016 | ARP   | 16 SC/APC adapters plate for RP FO                                                                 | 1/50 |

### WALL RACK AND CABINETS - RITI \*

|        |             |                                                       |   |
|--------|-------------|-------------------------------------------------------|---|
| 361001 | B 2U        | Wall frame 19" 2U - 300 mm depth                      | 1 |
| 396005 | RB 4 19 300 | Rack cabinet de 19" 4U 300mm depth, 180 x 540 x 362mm | 1 |
| 396021 | RB 6 19 300 | Rack cabinet de 19" 6U 300mm depth, 211 x 540 x 362mm | 1 |
| 396013 | R6UD        | Rack cabinet 19" 6U unassembled. 600 x 400 x 370 mm   | 1 |
| 396014 | R9UD        | Rack cabinet 19" 9U unassembled. 600 x 400 x 500 mm   | 1 |
| 397004 | PPC 19      | Lead-through for 19" rack 1U                          | 1 |
| 397002 | PC 2 19     | Blind panel 2U rack 19"                               | 1 |

\* Please refer to the full range of RACKS and Accessories in the **OPENETICS** catalog

### FIBER TRAYS AND ACCESSORIES\*

|        |           |                                                                                                                     |         |
|--------|-----------|---------------------------------------------------------------------------------------------------------------------|---------|
| 361012 | BF 24 C   | Bandeja extraíble 24 puertos con 24 adaptadores SC/APC Simplex con tapón antipolvo. Adaptadores montados. 1U        | 1/5     |
| 361013 | BF 48 C   | Bandeja extraíble 48 puertos con 24 adaptadores SC/APC Duplex con tapón antipolvo. Adaptadores montados. 1U         | 1/5     |
| 361018 | BF 24 E   | Bandeja extraíble 24 puertos con 24 adaptadores montados SC/APC simplex . Identificador fibras. Tapón antipolvo. 1U | 1/5     |
| 361019 | BF 48 E   | Bandeja extraíble 48 puertos con 24 adaptadores SC/APC duplex . Identificador fibras. Tapón antipolvo. 1U           | 1/5     |
| 363001 | A SCAPC S | Adaptador SC/APC simplex con aletas de fijación                                                                     | 25/2000 |
| 363004 | A SCAPC D | Adaptador SC/APC duplex con aletas de fijación Para recambio BF 48 C                                                | 20/1000 |
| 363010 | T AD      | Bolsa 48 unidades con tornillos para adaptadores SC/APC                                                             | 1       |
| 363011 | TP AD S   | Tapón para frontal bandeja telescópica conector SC                                                                  | 100     |
| 366001 | PFF 45    | Protectores termoretráctiles de 45mm para fusiones. Bolsa 50 unidades                                               | 1       |

\* Please refer to the full range in the **OPENETICS** catalog

### PATCH PANELS AND KEYSTONE JACKS\*

|        |            |                                                                                          |         |
|--------|------------|------------------------------------------------------------------------------------------|---------|
| 392005 | PP 24 6 C  | 24 ports Cat6 assembled patch panel for 19" rack. 1U                                     | 1/10    |
| 392001 | PP 24 S    | 24 ports empty patch panel for 19" rack. 1U                                              | 1/10    |
| 393022 | KJ C6 HQ   | Keystone jack / CAT6 UTP female connector without tool, wing nut type.                   | 1/100   |
| 393005 | KJ C6A     | Cat6A UTP keystone jack / female connector                                               | 1/100   |
| 393007 | KJ C6A-TL  | Tool-less Cat6A UTP keystone jack female connector                                       | 1/100   |
| 393006 | KJ C6A-FTL | Tool-less Cat6A FTP keystone jack female connector                                       | 1/50    |
| 393016 | SC KJ M    | SC/APC fiber adapter with antidust cap protection and adapter for patch panel assembling | 50/1000 |
| 393011 | FF KJ      | Double F connector adapter for patch panel                                               | 25      |

\* Please refer to the full range in the **OPENETICS** catalog

## DISTRIBUTION BOX

|        |          |                                                                                                            |      |
|--------|----------|------------------------------------------------------------------------------------------------------------|------|
| 361031 | RS 4     | Fiber distribution box 4 connectorized or fused fibers. SC/APC adapters not included                       | 1/10 |
| 361032 | RS 8-12  | Fiber distribution box 8 connectorized /12 fused fibers. SC/APC adapters not included                      | 1/10 |
| 361041 | RS 24-12 | Fiber distribution box 4 connectorized or fused fibers. SC/APC adapters not included                       | 1/20 |
| 361042 | ARS 12   | Fiber distribution box 8 connectorized /12 fused fibers. SC/APC adapters not included                      | 1/20 |
| 396023 | RP FO P  | Armario plástico dos zonas para 48 adaptadores SC/APC. 4 bandejas para un máximo de 48 fusiones. 2 puertas | 1/6  |

## KITS PIGTAIL / PATCH CORD COMPATIBLES EK ROLLER

## EK ROLLER

|        |            |                                                                                                              |   |
|--------|------------|--------------------------------------------------------------------------------------------------------------|---|
| 151062 | EK ROLLER+ | Cable unroller / roller device for coaxial cable compatible with Ek roller. With weight stabilizer accessory | 1 |
|--------|------------|--------------------------------------------------------------------------------------------------------------|---|

# Ek ROLLER +

**Ek Roller** is a new concept of cable dispenser patented by EK that presents unique advantages in the market. Its low weight and size allows it to be stored in the toolbox and it makes it very easy to use in any situation and environment. Allows the rotation of fiber optic distribution kit boxes, facilitating their unwinding. Thanks to its robust steel structure, supports both light reels of less than 1kg and reels of more than 30kg

- ✓ The quick fixing system to the fiber optic distribution kit boxes allows an easy and toolless swap in just two seconds
- ✓ EK Roller allows not only the unwinding of cable by simply pulling it, but also makes it easy the tedious task of winding the excess cable at the end of the installation
- ✓ The EK reels compatible with EK Roller also consist of an innovative system that prevents the excess cable from becoming entangled and guarantees a fluid unwinding of the same
- ✓ It includes an accessory that adds weight to optimize the rotation of light or low-cable coils. It is optimized for the PFR and PCR range of PAUS, and can also be used with other compatible light reels for Ek Roller.

## PIGTAIL KITS EK ROLLER - CPR DCA

|        |           |                                                                                                                    |      |
|--------|-----------|--------------------------------------------------------------------------------------------------------------------|------|
| 361111 | PFR 10DT  | Optical fiber rosette box with 2 SC/APC anti-dust adapters and 2 fibers pigtail 10m with traction system. CPR Dca  | 1/16 |
| 361112 | PFR 15DT  | Optical fiber rosette box with 2 SC/APC anti-dust adapters and 2 fibers pigtail 15m with traction system. CPR Dca  | 1/16 |
| 361113 | PFR 20DT  | Optical fiber rosette box with 2 SC/APC anti-dust adapters and 2 fibers pigtail 20m with traction system. CPR Dca  | 1/16 |
| 361114 | PFR 25DT  | Optical fiber rosette box with 2 SC/APC anti-dust adapters and 2 fibers pigtail 25m with traction system. CPR Dca  | 1/16 |
| 361115 | PFR 30DT  | Optical fiber rosette box with 2 SC/APC anti-dust adapters and 2 fibers pigtail 30m with traction system. CPR Dca  | 1/16 |
| 361116 | PFR 50DT  | Optical fiber rosette box with 2 SC/APC anti-dust adapters and 2 fibers pigtail 50m with traction system. CPR Dca  | 1/16 |
| 361117 | PFR 70DT  | Optical fiber rosette box with 2 SC/APC anti-dust adapters and 2 fibers pigtail 70m with traction system. CPR Dca  | 1/16 |
| 361129 | PFR 100DT | Optical fiber rosette box with 2 SC/APC anti-dust adapters and 2 fibers pigtail 100m with traction system. CPR Dca | 1/16 |



RS 8-12



RS 24-12



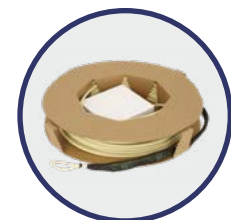
RP FO P



Access the EK ROLLER demo video



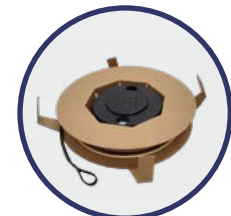
Ek ROLLER +



Cardboard reel with EK ROLLER+ system



Mounting System for Ek ROLLER+



Ek ROLLER+ with a special accessory for easy unwinding





PCR XX FEK



PC SA-200



RT 2 A PT



A SCAPC S



A SCAPC AD



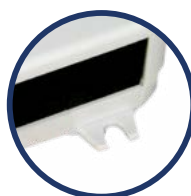
TP AD S



PFF 45



MP 18



External mounting ears for greater installation comfort

#### PATCHCORD KITS EK ROLLER - CPR DCA

|        |            |                                                                                                                                   |      |
|--------|------------|-----------------------------------------------------------------------------------------------------------------------------------|------|
| 361118 | PFR 20 DEK | Optical fiber rosette box with 2 SC/APC anti-dust adapters and 2 fibers connectorized patchcord 20m with traction system. CPR Dca | 1/16 |
| 361119 | PFR 25 DEK | Optical fiber rosette box with 2 SC/APC anti-dust adapters and 2 fibers connectorized patchcord 25m with traction system. CPR Dca | 1/16 |
| 361120 | PFR 30 DEK | Optical fiber rosette box with 2 SC/APC anti-dust adapters and 2 fibers connectorized patchcord 30m with traction system. CPR Dca | 1/16 |
| 361121 | PFR 50 DEK | Optical fiber rosette box with 2 SC/APC anti-dust adapters and 2 fibers connectorized patchcord 50m with traction system. CPR Dca | 1/16 |
| 361122 | PFR 70 DEK | Optical fiber rosette box with 2 SC/APC anti-dust adapters and 2 fibers connectorized patchcord 70m with traction system. CPR Dca | 1/16 |

#### PATCHCORD KITS WITH FLEXIBLE CONNECTORS EK ROLLER - CPR DCA

|        |            |                                                                                                       |      |
|--------|------------|-------------------------------------------------------------------------------------------------------|------|
| 361126 | PCR 12 FEK | 3mm patch cord with flexible SC/APC connectors. Length 12 m. With traction system at one end. CPR Dca | 1/16 |
| 361127 | PCR 18 FEK | 3mm patch cord with flexible SC/APC connectors. Length 18 m. With traction system at one end. CPR Dca | 1/16 |
| 361128 | PCR 24 FEK | 3mm patch cord with flexible SC/APC connectors. Length 24 m. With traction system at one end. CPR Dca | 1/16 |

#### 3 MM FIBER PATCHCORDS

|        |            |                                                                        |       |
|--------|------------|------------------------------------------------------------------------|-------|
| 362002 | PC SA 25   | 3mm patch cord fiber with SC/APC connectors. Length 25 cm              | 1/250 |
| 362001 | PC SA 100  | 3mm patch cord fiber with SC/APC connectors. Length 1 m                | 1/250 |
| 362005 | PC SA-200  | 3mm patch cord fiber with SC/APC connectors. Length 2m                 | 1/250 |
| 362003 | PC SA-P 25 | 3mm hybrid patch cord with SC/APC and SC / PC connectors. Length 25 cm | 1/250 |
| 362004 | PC SA-P200 | 3mm hybrid patch cord with SC/APC and SC / PC connectors. Length 2m    | 1/250 |

#### 900 um FIBER PIGTAILS

|        |        |                                                       |    |
|--------|--------|-------------------------------------------------------|----|
| 362021 | PT 150 | 900um pigtail SM fiber SC/APC connectors. Length 1.5m | 25 |
|--------|--------|-------------------------------------------------------|----|

#### FIBER ROSSETES, DATA, CABLES AND ACCESSORIES

##### TERMINAL BOX WITH PIGTAIL

|        |           |                                                                                     |      |
|--------|-----------|-------------------------------------------------------------------------------------|------|
| 361104 | RT 2 A PT | Roseta terminal fibra con dos adaptadores antipolvo SC/APC y 2 pigtails fusionables | 1/80 |
|--------|-----------|-------------------------------------------------------------------------------------|------|

##### ROSETAS VACÍAS Y ADAPTADORES DE FIBRA / BAT FIBRA

|        |            |                                                                                                         |         |
|--------|------------|---------------------------------------------------------------------------------------------------------|---------|
| 361101 | RT FO      | Empty optical fiber terminal rosette box. SC/APC adapters not included. Fits standard single back boxes | 1/25    |
| 363001 | A SCAPC S  | Simplex SC/APC adapter with mounting flange                                                             | 50/2000 |
| 363003 | A SCAPC AD | Simplex SC/APC adapter with anti dust cap                                                               | 25/2000 |
| 363011 | TP AD S    | Protective cap for front telescopic tray SC connector                                                   | 100     |
| 366001 | PFF 45     | 45mm heat shrinkable sleeves for fiber fusion. 50 pcs bag                                               | 1       |

##### TELEPHONY MULTIPLEXER

|        |       |                                                                                           |      |
|--------|-------|-------------------------------------------------------------------------------------------|------|
| 399001 | MP 18 | Cat6 passive telephony multiplexer. 1 input / 8 outputs. With extractable cable RJ11/RJ45 | 1/16 |
|--------|-------|-------------------------------------------------------------------------------------------|------|

## FIBER CONNECTOR

|        |       |                                                   |        |
|--------|-------|---------------------------------------------------|--------|
| 363021 | CM SA | Mechanical SC/APC connector for single mode fiber | 10/100 |
|--------|-------|---------------------------------------------------|--------|



R C6

## TERMINAL BOXES AND CONNECTORS

|        |            |                                                                        |         |
|--------|------------|------------------------------------------------------------------------|---------|
| 393021 | R C6       | Data terminal rosette box with dust cap. Keystone not included         | 1/16    |
| 393005 | KJ C6A     | Cat6A UTP keystone jack / female connector                             | 1/100   |
| 393007 | KJ C6A-TL  | Tool-less Cat6A UTP keystone jack female connector                     | 1/100   |
| 393022 | KJ C6 HQ   | Keystone jack / CAT6 UTP female connector without tool, wing nut type. | 1/100   |
| 393006 | KJ C6A-FTL | Tool-less Cat6A FTP keystone jack female connector                     | 1/50    |
| 393003 | RJ45 C6    | Cat6 UTP RJ45 male connector                                           | 10/1000 |
| 393008 | RJ 45U C6A | RJ45 Cat6A UTP fast male connector                                     | 10/1000 |
| 393009 | RJ 45F C6A | RJ45 Cat6A FTP fast male connector                                     | 10/1000 |
| 393004 | C RJ45     | White cap for male RJ45 connector                                      | 10/250  |
| 393010 | C RJ45 Y   | Yellow cap for male RJ45 connector                                     | 10/3000 |
| 393013 | C RJ45 R   | Red cap for male RJ45 connector                                        | 10/3000 |
| 393014 | C RJ45 B   | Blue cap for male RJ45 connector                                       | 10/3000 |
| 393015 | C RJ45 G   | Grey cap for male RJ45 connector                                       | 10/3000 |



KJ C6 HQ



KJ C6A-TL

KJ C6A-FTL



## FIBER TOOLS

|        |          |                                                   |      |
|--------|----------|---------------------------------------------------|------|
| 394001 | H KJ     | KJ C6/KJ C6A keystone jack insertion and cut tool | 1    |
| 394002 | H RJ45   | Crimping tool for RJ45 C6 connector               | 1    |
| 394003 | HCC RJ45 | Tool for fast male RJ45 connectors                | 1/20 |

RJ45 UC6A · RJ45 F6A



H RJ45

## FIBER CABLE - CPR DCA\*

|        |              |                                                                                        |   |
|--------|--------------|----------------------------------------------------------------------------------------|---|
| 360010 | CFO 12 900-D | 12 single-mode tight-buffered fibers cable 900um G657-A2 LSZH CPR Dca. Packed by meter | m |
| 360011 | CFO 24 900-D | 24 single-mode tight-buffered fibers cable 900um G657-A2 LSZH CPR Dca. Packed by meter | m |
| 360012 | CFO 48 900-D | 48 single-mode tight-buffered fibers cable 900um G657-A2 LSZH CPR Dca. Packed by meter | m |
| 360007 | CFC          | Fiber cutting service                                                                  | 1 |
| 360015 | CPF          | Big reel for fiber optical cable                                                       | 1 |
| 360020 | CPF 2        | Small reel for fiber optical cable                                                     | 1 |



HCC RJ45

\* Please refer to the full range in the OPENETICS catalog

## FIBER CABLE EK ROLLER- CPR DCA

|        |              |                                                                                                       |                         |
|--------|--------------|-------------------------------------------------------------------------------------------------------|-------------------------|
| 360025 | CFOR 2 900-D | 2 single-mode 900um fibers cable G657-A2 LSZH white CPR Dca. <b>500m reel</b>                         | 500<br>18.000<br>36.000 |
| 360026 | CFOR 2 900N  | 2 single-mode 900um fibers cable G657-A2 BLACK FR-LSZH-UV for outdoor installations. <b>500m reel</b> | 500<br>18.000<br>36.000 |



CFOR 2 900-D



Accede al video  
demostrativo del  
EK ROLLER



CLUR 6 CUD



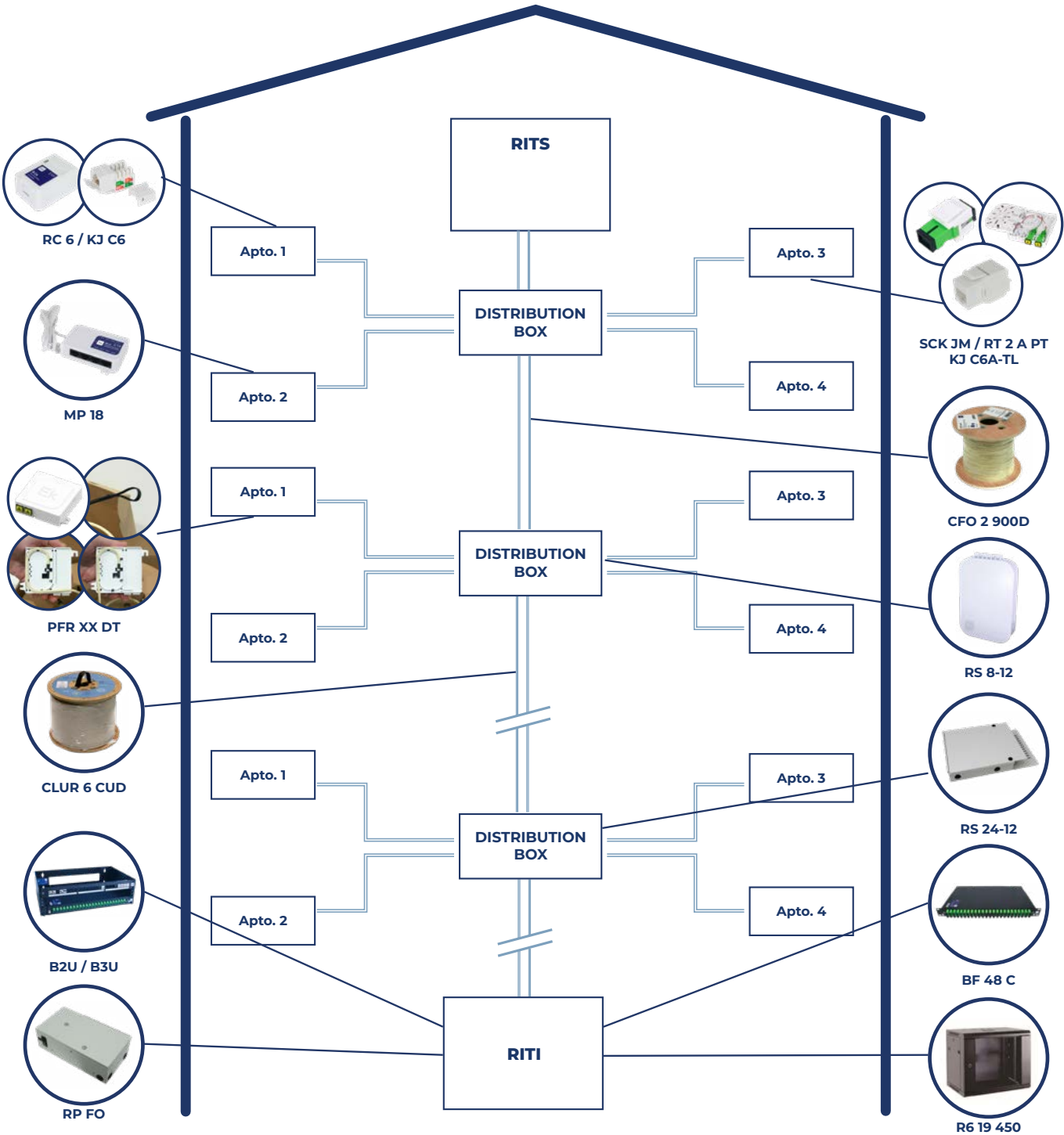
CLU 6 CUD

| LAN CABLE EK ROLLER - CPR DCA |                            |                                                                                     |                         |
|-------------------------------|----------------------------|-------------------------------------------------------------------------------------|-------------------------|
| 390018                        | CLUR 6 CUD<br><b>E</b>     | LAN cable Cat6 U / UTP CU white LSZH CPR Dca. <b>305m wooden drum</b> for EK ROLLER | 305<br>10.980<br>21.960 |
| 390026                        | CLUR 6 CUD/500<br><b>E</b> | LAN cable Cat6 U / UTP CU white LSZH CPR Dca. <b>500m wooden drum</b> for EK ROLLER | 500<br>18.000<br>36.000 |

| CABLE DE DATOS* CPR Dca PULL-BOX |                       |                                                            |                         |
|----------------------------------|-----------------------|------------------------------------------------------------|-------------------------|
| 390010                           | CLU 6 CUD<br><b>E</b> | LAN cable Cat6 U/UTP CU LSZH CPR Eca, <b>pull-box 305m</b> | 305<br>10.980<br>21.960 |

\*Ver otros cables de datos disponibles en la página 74

EXAMPLE OF FIBER OPTIC AND DATA INSTALLATION





# 03

RECEIVERS,  
MODULATORS  
AND REMOTE CONTROL  
IR EXTENDERS



EK DR-2



EK TC DROID



EN 2HD-IP



MD HD EASY LOOP



MD HD EASY TWIN



FA 505

## ANDROID BOX

|        |         |                                                                                                                                |      |
|--------|---------|--------------------------------------------------------------------------------------------------------------------------------|------|
| 180032 | EK DR-2 | Android 4K/HD Receiver, H264/H265, WiFi 2.4/5GHz, 2 USB 2.0 ports, 1 HDMI connector, 1 AV connector, Bluetooth remote control. | 1/20 |
|--------|---------|--------------------------------------------------------------------------------------------------------------------------------|------|

## DVB-T2 + ANDROID RECEIVER

|        |             |                                                                                              |      |
|--------|-------------|----------------------------------------------------------------------------------------------|------|
| 180021 | EK TC DROID | DVB-T/T2/C UHD H265 + ANDROID TV 4K digital receiver. WiFi 2,4 GHz. Universal remote control | 1/20 |
|--------|-------------|----------------------------------------------------------------------------------------------|------|

## ENCODER / STREAMER TWIN

|        |           |                                                                                                                                                        |      |
|--------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 284001 | EN 2HD-IP | 2 HDMI inputs encoder/streamer. IP multicast / HLS / RTMP output for local or public network (internet) of online content. Up to 25 simultaneous users | 1/18 |
| 180036 | EK PLAYER | STB for IP channels on TVs using EN 2HD IP solution                                                                                                    | 1    |

## HD DIGITAL MODULATORS

|        |                 |                                                                                                                                                                                                                                                                                                                                                |      |
|--------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 122008 | MD HD EASY      | HD digital encoder modulator HDMI to COFDM/QAM. 1 input HDMI up to 1080p. Output frequency: 170-230 MHz + 470-862 MHz. Output level (DIN 45004B): > 80 dBuV. RF mix input (5-862 MHz). USB for professional values programming                                                                                                                 | 1/15 |
| 122011 | MD HD EASY LOOP | HD digital encoder modulator HDMI to COFDM/QAM. 1 input HDMI + 1 HDMI LOOP up to 1080p. Output frequency: 170-230 MHz + 470-862 MHz. Output level (DIN 45004B): > 80 dBuV. RF mix input. USB for professional values programming                                                                                                               | 1/15 |
| 122014 | MD HD EASY RC   | Digital modulator to COFDM/QAM. 1 input + HDMI LOOP up to 1080p. Output frequencies: 170-230MHz + 470- 862MHz. Output level (DIN 45004B):> 80dBuV. RF mix input (5-862MHz). USB recorder / player. USB for programming professional parameters. IR transmitter 33-56 KHz (included). 80dB dynamic margin. 5Vdc selectable power supply for TRC | 1/15 |
| 122013 | MD HD EASY TWIN | HD digital encoder modulator HDMI to COFDM/QAM. 2 input HDMI up to 1080p. Output frequency: 170-230 MHz + 470-862 MHz. Output level (DIN 45004B): > 80 dBuV. RF mix input (5-862 MHz). USB for TS files record and play + USB for professional value programming                                                                               | 1/12 |
| 125002 | TRC             | Universal remote control IR receiver for MD HD EASY RC. 80db dynamic margin. Power supply not included.                                                                                                                                                                                                                                        | 1/12 |
| 124007 | FA 505          | Power supply 5Vdc / 500mA for TRC                                                                                                                                                                                                                                                                                                              | 1/12 |



### HD DIGITAL MODULATORS 4K COMPATIBLE

|        |              |                                                                                                                                                                                                                                                                                                                                              |        |
|--------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 122015 | MD HD L4K    | HD digital encoder modulator HDMI to COFDM/QAM/ISDB-T. 1 input HDMI + 1 HDMI LOOP 4K. Output frequency: 170-230 MHz + 470-862 MHz. Output level (DIN 45004B): > 80 dBuV. RF mix input (5-862MHz). USB for professional values programming                                                                                                    | 1/15   |
| 122016 | MD HD L4K RC | Digital modulator to COFDM/QAM/ISDB-T. 1 input + HDMI LOOP 4K. Output frequencies: 170-230MHz + 470- 862MHz. Output level (DIN 45004B):> 80dBuV. RF mix input (5-862MHz). USB recorder / player. USB for programming professional parameters. IR transmitter 33-56 KHz (included). 80dB dynamic margin. 5Vdc selectable power supply for TRC | 1/15   |
| 125002 | TRC          | Universal remote control IR receiver for MD HD L4K RC. 80db dynamic margin. Power supply not included.                                                                                                                                                                                                                                       | 1/12   |
| 124007 | FA 505       | Power supply 5Vdc / 500mA for TRC                                                                                                                                                                                                                                                                                                            | 1/12   |
| 059001 | AMCD         | DIN rail fixing accessory (for MD modulators)                                                                                                                                                                                                                                                                                                | 1/1000 |

### POWER SUPPLY

|        |       |                                                               |   |
|--------|-------|---------------------------------------------------------------|---|
| 122009 | FA MD | Replacement power supply for MD digital modulators. 5Vdc / 2A | 1 |
|--------|-------|---------------------------------------------------------------|---|

### ANALOG MODULATOR

|        |      |                                                                                                                                                 |       |
|--------|------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 121001 | MD A | Multistandard audio/video analog modulator. Output channels: E2-E4, E5-S20, C21-69. Output level (DIN 45004B): 90 dBuV. RF mix input (5-862MHz) | 10/60 |
|--------|------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------|

### CABLES AND ADAPTERS FOR MODULATORS

|        |         |                                          |        |
|--------|---------|------------------------------------------|--------|
| 123001 | CSR     | Cable SCART IN / 3 x RCA 1,5 m           | 25/100 |
| 125001 | CHD     | 1,5 m HDMI male - HDMI male V2.0 cable   | 6/120  |
| 165010 | HDM 90F | HDMI male - HDMI female 90° flat adaptor | 10     |

### REMOTE CONTROL EXTENDERS

|        |           |                                                                                                                                                                                      |      |
|--------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 124008 | IR-W2     | Remote control wireless universal repeater (30-60KHz) . Transmitter-receiver kit. Switchable control frequency.                                                                      | 1/10 |
| 124009 | IR-W2 EXT | Additional wireless transmitter                                                                                                                                                      | 1/10 |
| 124010 | IR-RC     | Coaxial cable remote control universal repeater. Transmitter 33/56 KHz 80dB dynamic range. Power supply for additional transmitters. Transmitter + receiver kit and 2 power supplies | 1/40 |
| 125002 | TRC       | Universal remote control IR receiver for MD HD EASY RC/IR-RC. Power supply not included.                                                                                             | 1/12 |
| 124007 | FA 505    | Power supply 5Vdc / 500mA for TRC                                                                                                                                                    | 1/12 |



MD HD L4K RC



TRC



MD A



CHD



HDM 90F



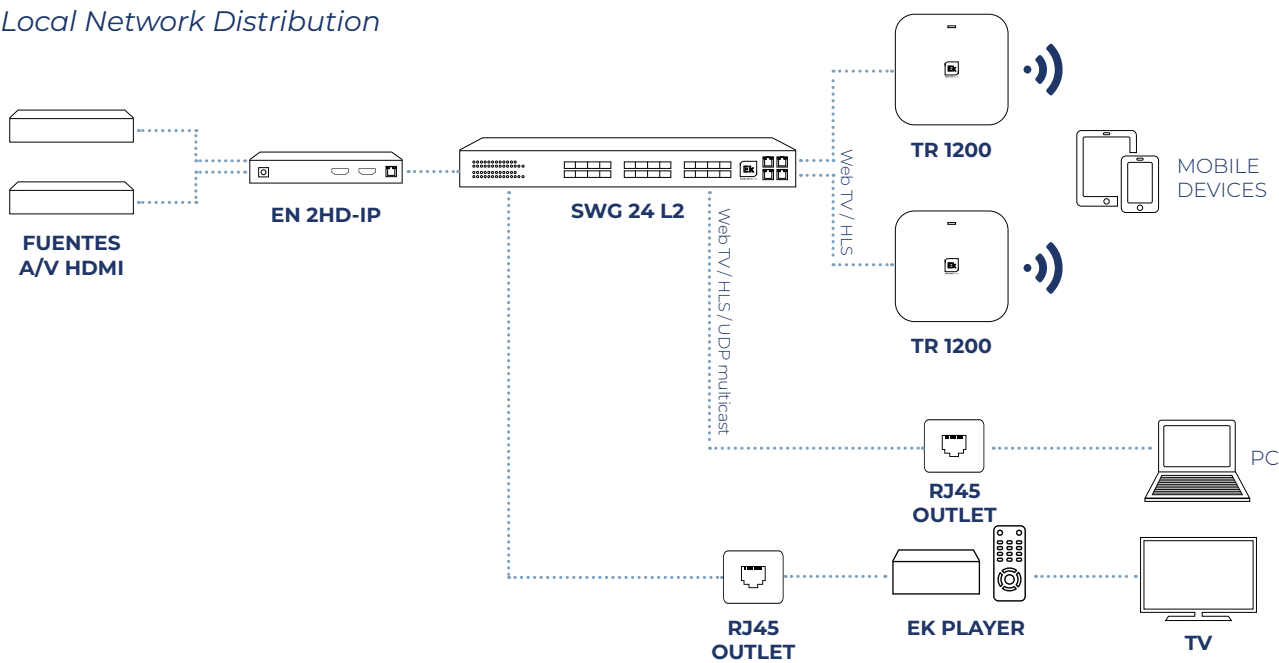
IR W2



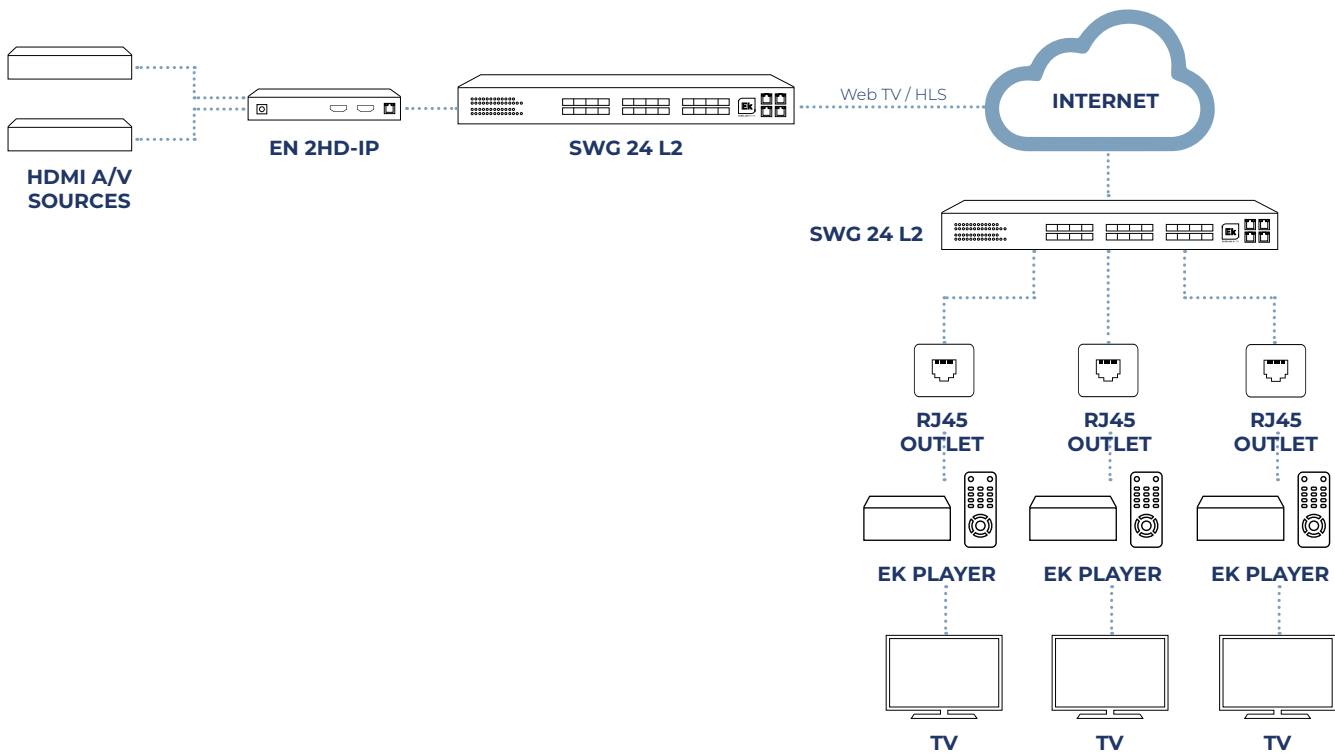
IR-RC

# INSTALLATION EXAMPLES IN 2HD-IP

## Local Network Distribution



## Installation for internet transmission. Transmission with EN 2HD-IP and reception with EK PLAYER



# 04

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MULTIFUNCTIONAL  
CM HEADEND /  
TRANSMODULATORS  
AND STREAMERS



CM COMPACT 8S4



CM COMPACT PLUS 8S4



CM COMPACT PLUS 8S8



KIT CM COMPACT AV 8



CM 8SH-TC

## COMPACT HEADENDS

## SATELLITE DVB-S MULTISTREAM TO DVB-T/C PROGRAMMABLE - HIGH POWER

|        |                       |                                                                                                                                                                                                                                                                                                                              |   |
|--------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 085006 | CM COMPACT 2S2        | Transmodulator 2 inputs (2 tuners) DVB S-S2 + loop. COFDM-QAM output. Output level: 95dBμV. MER> 35dB. Intelligent remultiplexing of services. 2 RF output channels (flexibles). 13 / 18V, 22KHz and DiSEqC. Programming via PC. Power supply included                                                                       | 1 |
| 085001 | CM COMPACT 8S4        | Transmodulator 4 inputs (8 tuners) DVB S-S2 multistream. BISS compatible. COFDM-QAM output. Output level: 95dBμV. MER> 35dB. Intelligent remultiplexing of services. 4 RF output channels (adjacent). 13 / 18V, 22KHz and DiSEqC. Programming via PC. Power supply included                                                  | 1 |
| 085002 | CM COMPACT 8S8        | Transmodulator 4 inputs (8 tuners) DVB S-S2 multistream. BISS compatible. COFDM-QAM output. Output level: 95dBμV. MER> 35dB. Intelligent remultiplexing of services. 8 RF output channels (4 + 4 adjacent). 13 / 18V, 22KHz and DiSEqC. Programming via PC. Power supply included                                            | 1 |
| 080010 | CH 3 COMPACT <b>E</b> | 3-unit wall chassis COMPACT series                                                                                                                                                                                                                                                                                           | 1 |
| 080011 | CH 2 COMPACT <b>N</b> | 2-unit wall chassis COMPACT series                                                                                                                                                                                                                                                                                           | 1 |
| 080012 | CHR COMPACT <b>N</b>  | 6-unit wall chassis COMPACT series                                                                                                                                                                                                                                                                                           | 1 |
| 085011 | CM COMPACT PLUS 2S2   | Transmodulator 2 inputs (2 tuners) DVB S-S2 + loop. COFDM-QAM output. Output level: 95dBμV. MER> 35dB. Intelligent remultiplexing of services. 2 RF output channels (flexibles). 13 / 18V, 22KHz and DiSEqC. Programming via PC. Modular power supply and amplifier with real 114dBμV per channel                            | 1 |
| 085007 | CM COMPACT PLUS 8S4   | Transmodulator 4 inputs (8 tuners) DVB S-S2 multistream. BISS compatible. COFDM-QAM output. Output level: 95dBμV. MER> 35dB. Intelligent remultiplexing of services. 4 RF output channels (adjacent). 13 / 18V, 22KHz and DiSEqC. Programming via PC. Modular power supply and amplifier with real 112dBμV per channel       | 1 |
| 085008 | CM COMPACT PLUS 8S8   | Transmodulator 4 inputs (8 tuners) DVB S-S2 multistream. BISS compatible. COFDM-QAM output. Output level: 95dBμV. MER> 35dB. Intelligent remultiplexing of services. 8 RF output channels (4 + 4 adjacent). 13 / 18V, 22KHz and DiSEqC. Programming via PC. Modular power supply and amplifier with real 108dBμV per channel | 1 |

## DVB-T/T2 to COFDM SD MPEG-2

|        |                     |                                                                                                                    |   |
|--------|---------------------|--------------------------------------------------------------------------------------------------------------------|---|
| 085005 | KIT CM COMPACT AV 8 | Headend kit for conversion of 8 DVB-T/DVB-T2 programs - H264/H.265 in to COFDM SD MPEG 2. 2 COFDM multiplex output | 1 |
|--------|---------------------|--------------------------------------------------------------------------------------------------------------------|---|

## MULTIFUNCTIONAL HEADENDS

## DVB-S/S2 + HDMI + USB TO DVB-T/C FLEXIBLE

|        |           |                                                                                                                                                                                                                                                                                                                                                           |   |
|--------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 082255 | CM 8SH-TC | Transmodulator with 4 inputs for 8 DVB-S/S2/S2X tuners. 13/18V, 22KHz, DiSEqC. Unicable (SATCR-DCSS). HDMI IN, USB player. Programable COFDM/QAM output in 4 flexible channels. Output level: 95 dBμV. MER >35dB. Smart services remultiplexing. Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply | 1 |
|--------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|

## DVB-S/S2 + HDMI + USB TO DVB-T/C FLEXIBLE + IP

|        |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                         |   |
|--------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 082257 | CM 8SH-TC/IP <b>64 STREAMS IP *</b> | Transmodulator with 4 inputs for 8 DVB-S/S2/S2X tuners. 13/18V, 22KHz, DiSEqC. Unicable (SATCR-DCSS). HDMI IN, USB player. Simultaneous IP output + 4 flexible COFDM/programmable QAM output channels. Output level: 95 dBμV. MER> 35dB. Smart services remultiplexing. Up to 64 SPTS/ MPTS output IP streams. Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply | 1 |
|--------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|

\* 64 streams for a maximum of 64 services. Up to 300Mbps maximum.

**ENTRADA SATÉLITE + CI - SALIDA DVB-T / DVB-C PROGRAMABLE**

|        |               |                                                                                                                                                                                                                                                                                                                                                                                 |   |
|--------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 082327 | CM 2S 2CI-2TC | Transmodulator with 2 inputs for 2 DVB S/S2 tuners + loop with dual Common Interface (2xCI). 13/18V, 22KHz, DiSEqC. COFDM/QAM output. Output level: 95dBuV. MER >35dB. Intelligent services remultiplexing. 2 RF output channels (flexibles). Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply                          | 1 |
| 082323 | CM 8S 2CI-4TC | Transmodulator with 4 inputs for 8 DVB tuners S/S2/S2X, with dual Common Interface (2xCI). 13/18V, 22KHz, DiSEqC, Unicable ((SATCR-DCSS). Multistream/BISS supported. COFDM-QAM output. Intelligent services remultiplexing. 4 RF output channels (adjacent). Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply          | 1 |
| 082325 | CM 8S 4CI-4TC | Transmodulator with 4 inputs for 8 DVB tuners S/S2/S2X, with quad Common Interface (4 x CI). 13/18V, 22KHz, DiSEqC, Unicable ((SATCR-DCSS). Multistream /BISS supported. COFDM-QAM output. Intelligent services remultiplexing. 4 RF output channels (adjacent). Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply       | 1 |
| 082324 | CM 8S 2CI-8TC | Transmodulator with 4 inputs for 8 DVB tuners S/S2/S2X, with dual Common Interface (2 x CI). 13/18V, 22KHz, DiSEqC, Unicable ((SATCR-DCSS). Multistream /BISS supported. COFDM-QAM output. Intelligent services remultiplexing. 8 RF output channels (4 + 4 adjacent). Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply | 1 |
| 082326 | CM 8S 4CI-8TC | Transmodulator with 4 inputs for 8 DVB tuners S/S2/S2X, with quad Common Interface (4 x CI). 13/18V, 22KHz, DiSEqC, Unicable ((SATCR-DCSS). Multistream/BISS supported. COFDM-QAM output. Intelligent services remultiplexing. 8 RF output channels (4 + 4 adjacent). Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply  | 1 |


**CM 2S 2CI-2TC**

**CM 8S 4CI-4TC**

**CM 8S 2CI-8TC**
**DVB-T/T2/C TO DVB-T/C FLEXIBLE**

|        |             |                                                                                                                                                                                                                                                                                                                                          |   |
|--------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 082258 | CM 4T-TC    | Transmodulator with 1 input for 4 DVB-T/T2/C + Loop independent tuners. Programmable COFDM / QAM output in 4 flexible channels. Output level: 95 dBuV. MER > 35dB. Smart services remultiplexing. Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply                               | 1 |
| 082259 | CM 4T-CI-TC | Transmodulator with 1 input for 4 DVB-T/T2/C + Loop independent tuners with 2x Common Interface (CI). Programmable COFDM / QAM output in 4 flexible channels. Output level: 95 dBuV. MER > 35dB. Smart services remultiplexing. Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply | 1 |


**CM 4T CI-TC**
**HDMI/AV TO DVB T/C PROGRAMMABLE\***

|        |                                                                                              |                                                                                                                                                                                                                                                        |   |
|--------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 082004 | CM 4HD-TC                                                                                    | Encoder 4 x HDMI / COFDM – QAM. Output level: 95dBuV. MER >35dB. Remultiplexing of 4 HDMI inputs in 2 adjacents RF output channel DVBT/ DVBC. Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply | 1 |
| 082022 | CM 4HD-T  | Encoder 4xHDMI/COFDM. Output level: 95dBuV. MER >35dB. Remultiplexing of 4 HDMI inputs in 2 adjacents RF output channel DVBT/ DVBC. Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply           | 1 |


**CM 4HD-T**





CM 4AV-TC



CM 8S-IP



CM 8S 2CI-IP



CM 8S 4CI-IP



CM 8TC-IP

## HDMI/AV TO DVB T FLEXIBLE\*

|        |           |                                                                                                                                                                                                                                                        |   |
|--------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 082025 | CM 2AV-T  | Encoder 2 x AV (CVBS) / COFDM. Output level: 95 dBuV. MER >35dB. Remultiplexing of 2 x AV inputs in one single output channel DVBT. Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply           | 1 |
| 082003 | CM 4AV-TC | Encoder 4 x AV (CVBS) / COFDM-QAM. Output level: 95 dBuV. MER >35dB. Remultiplexing of 4 x AV inputs in one single output channel DVBT/ DVBC. Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply | 1 |

## ENTRADA SATELITE + HDMI - SALIDA IP

|        |                                |                                                                                                                                                                                                                                                                                                                   |   |
|--------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 082294 | CM 8S-IP<br>64 STREAMS IP*     | Streamer with 4 inputs for 8 DVB-S/S2/S2X tuners. 13/18V, 22KHz, DiSEqC, Unicable (SATCR-DCSS). Multistream / BISS compatible. Up to 64 SPTS/ MPTS output IP streams. Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply                                    | 1 |
| 082262 | CM 8SH-IP<br>64 STREAMS IP*    | Streamer with 4 inputs for 8 DVB-S/S2/S2X tuners. 13/18V, 22KHz, DiSEqC, Unicable (SATCR-DCSS). HDMI IN, media file player via USB. Multistream / BISS compatible. Up to 64 SPTS/MPTS output IP streams. Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply | 1 |
| 082295 | CM 8S 2CI-IP<br>64 STREAMS IP* | Streamer with 4 inputs for 8 DVB tuners S/S2/S2X, with dual Common Interface (2 x CI). 13/18V, 22KHz, DiSEqC, Unicable ((SATCR-DCSS). Multistream /BISS supported. Up to 64 SPTS/MPTS output IP streams. Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply | 1 |
| 082322 | CM 8S 4CI-IP<br>64 STREAMS IP* | Streamer with 4 inputs for 8 DVB tuners S/S2/S2X, with quad Common Interface (4 x CI). 13/18V, 22KHz, DiSEqC, Unicable ((SATCR-DCSS). Multistream /BISS supported. Up to 64 SPTS/MPTS output IP streams. Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply | 1 |

\* 64 streams for a maximum of 64 services. Maximum 300Mbps.

## DVB-T/T2/C TO IP

|        |                               |                                                                                                                                                                                                                                                |   |
|--------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 082260 | CM 4T-IP<br>64 STREAMS IP*    | Streamer with 1 input for 4 DVB-T/T2/C + Loop independent tuners. Up to 64 SPTS/MPTS output IP streams. Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply                               | 1 |
| 082261 | CM 4T-CI-IP<br>64 STREAMS IP* | Streamer with 1 input for 4 DVB-T/T2/C + Loop independent tuners with 2x Common Interface (CI). Up to 64 SPTS/MPTS output IP streams. Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply | 1 |
| 082293 | CM 8TC-IP<br>64 STREAMS IP*   | Streamer with 2 inputs and 4 DVB-T/T2/C independent tuners for each input or 1 Loop input. Up to 64 SPTS/MPTS output IP streams. Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply      | 1 |

\* 64 streams para un máximo de 64 servicios. 300Mbps máximo

## HDMI/AV TO IP

|        |           |                                                                                                 |   |
|--------|-----------|-------------------------------------------------------------------------------------------------|---|
| 082007 | CM 4AV-IP | Streamer 4 x AV (CVBS) to IP. 1000 Mbps output. RTP/UDP. QoS. 1000 Mbps output. RTP / UDP. QoS. | 1 |
| 082008 | CM 4HD-IP | Streamer 4 x HDMI (up to 1080p) to IP. 1000 Mbps output. RTP / UDP. QoS.                        | 1 |

### IP TO DVB T/C PROGRAMMABLE

|        |                                                                                                  |                                                                                                                                                                                                                                                       |   |
|--------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 082018 | CM IP-TC<br>    | IP input 31 streams SPTS / MPTS. 1000Mbps. RTP / UDP. COFDM-QAM output. Output level: 95dBμV. MER >35dB. 4 RF output muxes (flexibles). Programming from PC connected to power supply. Integrated remote management from FA 524 KEY power supply      | 1 |
| 082019 | CM IP CI-TC<br> | IP input 31 streams SPTS / MPTS. 1000Mbps. RTP / UDP. 2x Common Interface CI. COFDM-QAM output. Output level: 95dBμV. MER >35dB. 4 RF output muxes (flexibles). Programación via PC. Telecontrol a través de RJ45 en la fuente de alimentación FA 524 | 1 |

\*32 services per stream. Maximum 512 services and 200Mbps IP.

### IP TO IP

|        |                                                                                                  |                                                                                                                                                                                                                                                                                                             |   |
|--------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 082037 | CM IP CI-IP<br> | IP input 31 streams SPTS / MPTS. 1000Mbps. RTP / UDP. 2 x Common Interface CI. Output IP 1000 Mbps. RTP-UDP. QoS. Up to 64 SPTS/MPTS output IP streams. Setup and management using CM Management PC software. Remote management via ethernet port in FA 524 Key. Local management via USB or ethernet port. | 1 |
|--------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|

\*32 services per stream. Maximum 512 services and 300Mbps

### 1 GHZ OPTICAL TRANSMITTER

|        |              |                                                                                                                       |   |
|--------|--------------|-----------------------------------------------------------------------------------------------------------------------|---|
| 274101 | CM TO 3-1310 | Modular optical transmitter IN 47-1000MHz / OUT 1310nm DFB laser. Optical power 3dBm. SC / APC. Built-in power supply | 1 |
| 274106 | CM TO 3-1550 | Modular optical transmitter IN 47-1000MHz / OUT 1550nm DFB laser. Optical power 3dBm. SC / APC. Built-in power supply | 1 |

### 2,6 GHZ OPTICAL TRANSMITTER

|        |                  |                                                                                                                                          |   |
|--------|------------------|------------------------------------------------------------------------------------------------------------------------------------------|---|
| 274100 | CM TO 3 FI-1310  | Optical transmitter IN 30-2600 MHz / OUT 1310 nm, DFB laser. Optical power 3 dBm. SC / APC. Built-in power supply. CM headend compatible | 1 |
| 274107 | CM TO 3 FI-1550  | Optical transmitter IN 30-2600 MHz / OUT 1550 nm, DFB laser. Optical power 3 dBm. SC / APC. Built-in power supply. CM headend compatible | 1 |
| 274102 | CM TO 10 FI-1550 | Optical transmitter IN 30-2600 MHz / OUT 1550 nm, DFB laser. Optical power 10 dBm. SC/APC. Built-in power supply. CM headend compatible  | 1 |

### EDFA

|        |             |                                                                                 |   |
|--------|-------------|---------------------------------------------------------------------------------|---|
| 274108 | CM EDFA 122 | Optical amplifier 1550nm DFB laser. Optical power 22dBm. Built-in power supply. | 1 |
|--------|-------------|---------------------------------------------------------------------------------|---|

### OPTICAL SPLITTER

|        |         |                                                           |   |
|--------|---------|-----------------------------------------------------------|---|
| 274103 | CM RF 2 | 2-way optical splitter compatible with CM headend modules | 1 |
| 274104 | CM RF 4 | 4-way optical splitter compatible with CM headend modules | 1 |
| 274105 | CM RF 8 | 8-way optical splitter compatible with CM headend modules | 1 |

### ACCESSORIES

|        |            |                                                                                                                          |   |
|--------|------------|--------------------------------------------------------------------------------------------------------------------------|---|
| 082009 | FA 524     | Modular power supply 5 Vdc - 20 A. Includes RJ45 remote management and USB programming                                   | 1 |
| 082045 | FA 524 KEY | Modular power supply 5 Vdc - 20 A. Includes RJ45 remote management and USB programming. CM KEY included                  |   |
| 082329 | CM AMP 114 | Amplifier for CM series G: 20dB. Output level (DIN 45004B) 114dBμV                                                       | 1 |
| 082010 | FA 55      | Power supply 5Vdc - 5A for CM headend FTA modules and multi-input modulators. Supports a CM module + LNB. Requires CM PR | 1 |
| 082014 | CM PR      | External device for programming CM headend. Requires FA 55                                                               | 1 |
| 082015 | CM KEY     | Key for remote access control to CM headend                                                                              | 1 |
| 080005 | CHM TR     | Wall-mount support, 6 units (5 modules + 1 power supply)                                                                 | 1 |
| 080008 | CH 3 TR    | Wall-mount support, 3 units (2 modules + 1 power supply)                                                                 | 1 |
| 080006 | CHR TR     | Support for 19" rack, 6 units (5 modules + 1 power supply)                                                               | 1 |



CM IP CI-TC



CM TO 3-1310



FA 524



CM AMP 114



CH3 TR

# TECHNOLOGICAL SOLUTIONS FOR HOSPITALITY AND HEALTHCARE SECTOR

EK offers a wide range of technological solutions for the hotel and healthcare sectors, enabling them to meet current connectivity and entertainment needs and demands.

Leveraging in-house developments, EK provides a **comprehensive range** of professional equipment that can create advanced multimedia environments in hotels, including Chromecasting, IPTV, and mobile device streaming. This can be achieved by either updating existing infrastructures without the need for construction work or implementing advanced FTTR (Fiber-To-The-Room) systems over fiber optics.



RF TRANSMODULATORS

IP STREAMERS

EK HOTEL IPTV SYSTEM

IPTV TRANSMISSION SYSTEMS  
OVER PUBLIC INTERNET

DIGITAL SIGNAGE

CHROMECASTING

VIDEO-ON-DEMAND (Vod)

FTTR-GPON

WIFI

EKOAX

ENTERTAINMENT AND  
INTERACTIVITY

Access the  
'Hospitality' section  
on our website.





# 05

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HOSPITALITY AND  
SOCIAL HEALTH/  
IPTV SERVERS/  
CHROMECASTING/ OTT  
AND OPERATORS



EK BRIDGE · EK LINK



FA 510



EK LINK R



EK STREAM PLUS · OTT BY EK



EK HOTEL TV / EK HOTEL TV PRO



EKHOTELTV



## TRANSCODING, TRANSRATING, OTT AND STREAMING

|        |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |
|--------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 280026 | EK BRIDGE             | Encapsulator / desencapsulator of content multicast in HTTP (up to 20 services SD/15 HD) for public internet transmission Point to Point.                                                                                                                                                                                                                                                                                                                                                                                                                         | 1 |
| 280027 | EK LINK               | Bidirectional IP converter / adapter between multicast and WebTV protocols (HLS / RTMP / MPEG-DASH) for TV services with audio transcoding capabilities (up to 20 SD services or 15 HD services). Power supply not included                                                                                                                                                                                                                                                                                                                                       | 1 |
| 280052 | EK LINK R             | Bidirectional IP converter / adapter between multicast and WebTV protocols (HLS/RTMP/MPEG-DASH) for TV services with audio transcoding capabilities (up to 20 SD services or 15 HD services). 19" rack format                                                                                                                                                                                                                                                                                                                                                     | 1 |
| 280044 | EK STREAM PLUS        | Transcoder MPEG-2 / H-264 / H265 for TV channels (up to 30 SD or 15 HD). IP input / output. Bidirectional conversion capability between multicast protocols and WebTV (HLS / RTMP / MPEG-DASH)                                                                                                                                                                                                                                                                                                                                                                    | 1 |
| 280032 | OTT BY EK*            | OTT server for a maximum of 64 services and 250 simultaneous users. It includes a video engine for different WebTV formats (HLS / RTMP / MPEG-DASH) and a configurable, multi-device web portal for accessing services through a browser. Restricted access option through tokens and interface for integration with payment gateways. Payout with optimized switching. DRM-compliant                                                                                                                                                                             | 1 |
| 280031 | EK STREAM PLUS + OTT* | OTT server for a maximum of 30 services and 125 simultaneous users with the ability to pre-transcode services (up to 16 SD services / 8 HD services). IP input and output. Bidirectional conversion capability between multicast and WebTV protocols (HLS / RTMP / MPEG-DASH). It includes a video engine for different WebTV formats (HLS, RTMP, MPEG DASH) and a configurable, multi-device web portal for accessing services through a browser, with the option of restricted access using tokens and with an interface for integration with payment gateways. | 1 |
| 180035 | STB PROF              | IPTV 4K receiver for OTT by EK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1 |
| 280049 | EK EPG                | Flexible Electronic Program Guide (EPG) generation service for OTT and DVB platforms. Management from the cloud via web interface                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1 |
| 311008 | EK SOP                | Servers remote support and commissioning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1 |

\*Consult annual license

## HOSPITALITY/ SOCIAL HEALTH/IPTV/ CHROMECASTING

|        |                 |                                                                                                                                                                                                                                                                                                                                                |   |
|--------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 280029 | EK STREAM BASIC | Transcoder MPEG-2 / H-264 / H265 for TV channels (up to 4 SD or 2 HD). IP input / output. Bidirectional conversion capability between multicast protocols and WebTV (HLS / RTMP / MPEG-DASH). CM module format. Power supply not included                                                                                                      | 1 |
| 280044 | EK STREAM PLUS  | Transcoder MPEG-2 / H-264 / H265 for TV channels (up to 30 SD or 15 HD). IP input / output. Bidirectional conversion capability between multicast protocols and WebTV (HLS / RTMP / MPEG-DASH)                                                                                                                                                 | 1 |
| 280047 | EK HOTEL TV     | IPTV multicast and WebTV server for hotels. Simplified configuration web portal. Channels list management and customizable information per user. STB PROF devices remote management. WebTV channel transmission (HLS / RTMP / MPEG-DASH) and IP multicast. 2 payout services. CM module format. Power supply not included                      | 1 |
| 280059 | EK HOTEL TV PRO | IPTV multicast and WebTV server for hotels. Simplified configuration web portal. Channels list management and customizable information per user. STB PROF devices remote management. WebTV channel transmission (HLS / RTMP / MPEG-DASH) over WiFi for up to 20 SD or 7 HD services and 70 users. 2 payout services. Power supply not included | 1 |
| 280082 | MVOD            | VOD option for EK HOTEL TV / EK HEALTH                                                                                                                                                                                                                                                                                                         | 1 |



|        |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |
|--------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 280083 | MPT              | Task planner option for EK HOTEL TV / EK HOTEL TV PRO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1 |
| 280048 | EK HOTEL TV PLUS | IPTV multicast and WebTV server for hotels. Simplified configuration web portal. Channels list management and customizable information per user. STB PROF devices remote management. WebTV channel transmission (HLS / RTMP / MPEG-DASH) over WiFi for up to 64 SD or 22HD services and 250 users. Payout 5 services. VOD                                                                                                                                                                                                                                                                                 | 1 |
| 280064 | EK HEALTH        | IPTV multicast and WebTV server for hospitals and care homes. Simplified configuration web portal. Channels list management and customizable information according to patient or resident requirements. Create notifications, alerts or alarms addressed to the staff in charge of the patient or resident care. Centralized control for switching receivers off/of and maximum volume limitation. Centralized channel selection and scheduling. WebTV channel transmission (HLS / RTMP / MPEG-DASH) and IP multicast. 2 payout services. CM module format. Power supply not included                     | 1 |
| 280065 | EK HEALTH PRO    | IPTV multicast and WebTV server for hospitals and care homes. Simplified configuration web portal. Channels list management and customizable information according to patient or resident requirements. Create notifications, alerts or alarms addressed to the staff in charge of the patient or resident care. Centralized control for switching receivers off/of and maximum volume limitation. Centralized channel selection and scheduling. WebTV channel transmission (HLS / RTMP / MPEG-DASH) over WiFi for up to 20 SD or 7HD services and 70 users. 2 payout services. Power supply not included | 1 |
| 280066 | EK HEALTH PLUS   | IPTV multicast and WebTV server for hospitals and care homes. Simplified configuration web portal. Channels list management and customizable information according to patient or resident requirements. Create notifications, alerts or alarms addressed to the staff in charge of the patient or resident care. Centralized control for switching receivers off/of and maximum volume limitation. Centralized channel selection and scheduling. WebTV channel transmission (HLS / RTMP / MPEG-DASH) over WiFi for up to 64 SD or 22HD services and 250 users. Payout 5 services. VOD                     | 1 |
| 180035 | STB PROF         | IPTV 4K receiver for EK HOTEL TV / EK HEALTH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1 |
| 180033 | MSTB             | Simple remote control for STB IP BASIC / STB PROF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1 |

New version  
with VoD and  
5 payout  
services



EK HOTEL TV PLUS



EkHEALTH



New version  
with 2 payout  
services

EK HEALTH / EK HEALTH PRO



RGM



EkCAST



EK CAST



CRP 4K

Example of welcome screen  
EK CAST

### HOSPITALITY / CHROMECASTING

|        |              |                                                                                             |   |
|--------|--------------|---------------------------------------------------------------------------------------------|---|
| 280070 | RGM          | Multi-port router (10 x 1Gb)                                                                | 1 |
| 280055 | EK CAST MINI | Chromecast management server for up to 40 devices (L CAST license included). Desktop format | 1 |
| 280053 | EK CAST      | Chromecast management RACK server for up to 250 users                                       | 1 |
| 280084 | EK CAST PLUS | Chromecast management RACK server for up to 500 users                                       | 1 |
| 280093 | CRP 4K       | Chromecast device with assembled protector (DPC)                                            | 1 |
| 280098 | MU CAST      | Universal remote control for TV and CAST device.                                            | 1 |
| 125004 | CHD CR       | 0.5 m male-female HDMI cable                                                                | 1 |
| 280056 | L CAST       | Licenses for Chromecast devices (based on the number of devices managed by the server)      | 1 |
| 280092 | L CAST TV    | Management system for hospitality TVs with integrated Chromecast                            | 1 |
| 280097 | L CAST LG    | Management system for LG TVs with built-in Chromecast.                                      | 1 |
| 280058 | IPMS         | Integration with PMS CHAR (EK HOTEL TV, EK CAST, Professional HotSpot)                      | 1 |
| 311008 | EK SOP       | Servers remote support and commissioning                                                    | 1 |



SWG 24 L2



EN 2HD-IP



CHR TR



CM IP-TC



UPS 1000

## MANAGED SWITCH

|        |           |                                                                            |   |
|--------|-----------|----------------------------------------------------------------------------|---|
| 334200 | SWG 24 L2 | Ethernet Layer2 Managed Switch . 24 ports x 1Gbps Ethernet + 4 x SFP 1Gbps | 1 |
|--------|-----------|----------------------------------------------------------------------------|---|

## TWIN ENCODER/STREAMER

|        |           |                                                                                                                                        |      |
|--------|-----------|----------------------------------------------------------------------------------------------------------------------------------------|------|
| 284001 | EN 2HD-IP | 2 HDMI inputs encoder/streamer. IP multicast / HLS / RTMP output for local network or online transmission. Up to 25 simultaneous users | 1/18 |
| 180036 | EK PLAYER | STB for IP channels on TVs using EN 2HD IP solution                                                                                    | 1    |

## IP TO DVB T/C PROGRAMMABLE HEADENDS

|        |                                |                                                                                                                                                                                                                                                 |   |
|--------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 082018 | CM IP-TC<br>31 STREAMS IP *    | IP input 15 services SPTS / MPTS. 100Mbps. RTP / UDP. Output level: 95dBμV. MER >35dB. 4 RF output muxes (adjacent). Programming by PC connected to power supply. Remote control on-board via power supply                                      | 1 |
| 082019 | CM IP CI-TC<br>31 STREAMS IP * | IP input + 2 x Common Interface. 15 services SPTS / MPTS. 100Mbps. RTP / UDP. 2 slots CI. 2Output level: 95dBμV. MER >35dB. 4 RF output muxes (adjacent). Programming by PC connected to power supply. Remote control on-board via power supply | 1 |
| 082009 | FA 524                         | Modular power supply 5 Vdc - 24 A with remote control                                                                                                                                                                                           | 1 |
| 080006 | CHR TR                         | Support for 19" rack, 6 units                                                                                                                                                                                                                   | 1 |

\* 32 services per stream. Maximum 512 services and 200 Mbps

## HDMI/AV TO IP HEADENDS

|        |           |                                                                          |   |
|--------|-----------|--------------------------------------------------------------------------|---|
| 082007 | CM 4AV-IP | Streamer 4 x AV (CVBS) to IP. 1000 Mbps output. RTP/UDP QoS.             | 1 |
| 082008 | CM 4HD-IP | Streamer 4 x HDMI (up to 1080p) to IP. 1000 Mbps output. RTP / UDP. QoS. | 1 |

## UPS

|        |          |                                                                                                          |   |
|--------|----------|----------------------------------------------------------------------------------------------------------|---|
| 312004 | UPS 1000 | 1KVA online UPS. 92% AC/AC efficiency. Power factor 0.9. Autonomy 9 minutes. Display and rack format 19" | 1 |
| 312005 | PB UPS   | External batteries                                                                                       | 1 |
| 312006 | SNMP UPS | SNMP control board                                                                                       | 1 |

## DO YOU KNOW OUR PROFESSIONAL IPTV SOLUTIONS?

### IPTV PROFESSIONAL SOLUTIONS

STREAMING  
IP MULTICAST AND WEB TV

OTT SYSTEMS

IPTV POINT-TO-POINT  
AND POINT-TO-MULTIPOINT

TRANSCODING  
AND TRANSRATING

### FIELD OF APPLICATION

HOTELS AND HOSPITALS

TELECOM OPERATORS

RESIDENTIAL BUILDINGS

DIGITAL SIGNAGE

INDUSTRY

The background features a blurred image of server racks in a data center. Overlaid on this is a white line-art diagram representing a network or system architecture. A central square node is connected by lines to various circular icons. These icons include: two interlocking gears (top left), a person silhouette (top left), a globe (top left), a circular arrow (top left), a cloud with an up/down arrow (bottom left), a smartphone with a Wi-Fi symbol (bottom left), a Wi-Fi symbol in a square (bottom center), a double-headed vertical arrow (top right), a padlock (top right), two server racks (top right), a single server rack (top right), a Wi-Fi symbol (bottom right), and a signal tower icon (bottom right).

# 06

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CATV / HFC  
TRANSMISSION -  
OPTICAL RECEPTION



AC 129 TR



JXP X



JMP -1 / STI-3.5 / TSI-1/9



FA 6AC



MCAL 381 LR



MAA 22



TO 3 1310

## LINE / TELEDISTRIBUTION AMPLIFIERS

### REMOTE-POWERED CATV

|        |           |                                                                                                                                                                                                                          |      |
|--------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 102007 | AC 129 TR | CATV bidirectional trunk amplifier remotely powered. G: 39dB (85-1006MHz) / -2,5/25dB selectable (5-65MHz). Output level: 129dBμV (DIN 45004B / 115dBμV 42 channels CENELEC). Working voltage VAC. Connectors PG11. IP64 | 1    |
| 102008 | JMP-1     | Direct pass for HFC nodes and amplifiers                                                                                                                                                                                 | 1    |
| 102009 | STI-3,5   | Signal splitter (-3,5/-3,5dB) for HFC nodes and amplifiers                                                                                                                                                               | 1    |
| 102010 | TSI-1/9   | Signal TAP (-1/-9dB) for HFC nodes and amplifiers                                                                                                                                                                        | 1    |
| 102011 | JXP 0     | Attenuator 0dB for HFC nodes and amplifiers                                                                                                                                                                              | 10   |
| 102012 | JXP 2     | Attenuator 2dB for HFC nodes and amplifiers                                                                                                                                                                              | 10   |
| 102013 | JXP 3     | Attenuator 3dB for HFC nodes and amplifiers                                                                                                                                                                              | 10   |
| 102014 | JXP 6     | Attenuator 6dB for HFC nodes and amplifiers                                                                                                                                                                              | 10   |
| 102015 | JXP 9     | Attenuator 9dB for HFC nodes and amplifiers                                                                                                                                                                              | 10   |
| 102016 | JXP 12    | Attenuator 12dB for HFC nodes and amplifiers                                                                                                                                                                             | 10   |
| 161012 | A 11-58   | PG11 to 5/8 adapter                                                                                                                                                                                                      | 1    |
| 161011 | C 58-11   | 5/8 connector for cable 10/11mm outdoor diameter                                                                                                                                                                         | 1/20 |
| 161013 | C 58-15   | 5/8 connector for cable 15/16mm outdoor diameter                                                                                                                                                                         | 1    |
| 161014 | A 58-F    | 5/8 adapter to F connector                                                                                                                                                                                               | 1    |

### REMOTE POWER SUPPLY

|        |        |                                                      |   |
|--------|--------|------------------------------------------------------|---|
| 102020 | FA 6AC | Power supply for AC telefeeding 129 TR. 60 Vac / 6A. | 1 |
|--------|--------|------------------------------------------------------|---|

### SELF-POWERED CATV

|        |            |                                                                                                                                                                                                       |       |
|--------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 061007 | MCAL 381LR | Micro-broadband / line amplifier 1 input (87 - 1000MHz) and passive return line (5-65MHz). Gain 26 dB (47 MHz) / 32 dB (790 MHz). Output level (DIN 45004B): 114dBμV. Class A. Compatible with Ekoax. | 10/60 |
| 102006 | AC 118 R   | Line amplifier with passive return path 5-65MHz. Direct frequency: 87-1000MHz. G: 38dB. Output level: (DIN 45004B) 118dBμV. TEST: -20DB. Compatible with EKOAX                                        | 6/24  |

## INDOOR AMPLIFIERS

### CATV

|        |        |                                                                                                                                                           |       |
|--------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 111009 | MAA 22 | Micro indoor amplifier with return path. 1 input (5-65/88-1000 MHz) / 1 output. G: 12-17-22dB. Output level (DIN 45004B): 110 dBμV. Compatible with EKOAX | 10/60 |
|--------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------|

## OPTICAL TRANSMITTERS, SPLITTERS AND RECEIVERS

### OPTICAL TRANSMITTERS BASIC SERIE

|        |               |                                                                                                          |   |
|--------|---------------|----------------------------------------------------------------------------------------------------------|---|
| 271017 | TO 3 1310     | Optical transmitter IN 47-1000 MHz / Out 1310 nm laser DFB. Optical power 3dBm. SC / APC                 | 1 |
| 271001 | TO 3 FI       | Optical transmitter IN 30-2600 MHz / Out 1310 nm laser DFB. Optical power 3dBm. Digital channels. SC/APC | 1 |
| 271022 | TO 10 FI 1550 | Optical transmitter IN 30-2600MHz / OUT 1550nm DFB laser. Optical power 10dBm. Digital channels. SC/APC  | 1 |



## OPTICAL TRANSMITTERS CM SERIE

|        |                |                                                                                                                                          |   |
|--------|----------------|------------------------------------------------------------------------------------------------------------------------------------------|---|
| 274101 | CMTO3-1310     | Optical transmitter IN 47-1000MHz / OUT 1310nm DFB laser. Optical power 3dBm. SC / APC. Built-in power supply.                           | 1 |
| 274100 | CMTO3 FI-1310  | Optical transmitter IN 30-2600 MHz / OUT 1310 nm, DFB laser. Optical power 3 dBm. SC / APC. Built-in power supply. CM headend compatible | 1 |
| 274106 | CMTO3-1550     | Optical transmitter IN 47-1000MHz / OUT 1550nm DFB laser. Optical power 3dBm. SC / APC. Built-in power supply. CM headend compatible     | 1 |
| 274107 | CMTO3 FI-1550  | Optical transmitter IN 30-2600 MHz / OUT 1550 nm, DFB laser. Optical power 3 dBm. SC / APC. Built-in power supply. CM headend compatible | 1 |
| 274102 | CMTO10 FI-1550 | Optical transmitter IN 30-2600 MHz / OUT 1550 nm, DFB laser. Optical power 10 dBm. SC/APC. Built-in power supply. CM headend compatible  | 1 |



CM TO 3 FI-1550



CM EDFA 122

## EDFA CM SERIE

|        |             |                                                                                 |   |
|--------|-------------|---------------------------------------------------------------------------------|---|
| 274108 | CM EDFA 122 | 1550nm DFB laser optical amplifier. Optical power 22dBm. Built-in power supply. | 1 |
|--------|-------------|---------------------------------------------------------------------------------|---|

## RACK FORMAT OPTICAL TRANSMITTERS

|        |               |                                                                                                    |   |
|--------|---------------|----------------------------------------------------------------------------------------------------|---|
| 271021 | TOR 3 GPON    | Professional Optical transmitter IN 47-1000MHz / OUT 1550nm DFB laser. Optical power: 3dBm. SC/APC | 1 |
| 271020 | TOR 3 GPON FI | Professional Optical transmitter IN 47-2600MHz / OUT 1550nm DFB laser. Optical power: 3dBm. SC/APC | 1 |



TOR 3 GPON

## RACK FORMAT MULTI-PORT EDFAs

|        |           |                                                                                                                           |   |
|--------|-----------|---------------------------------------------------------------------------------------------------------------------------|---|
| 310023 | EDFA 812  | 8-way optical amplifier 1550nm + multiplexer 1490nm and 1310nm. Total optical power: 23dBm. Optical power / port: 12,5dBm | 1 |
| 310010 | EDFA 816  | 8-way optical amplifier 1550nm + multiplexer 1490nm and 1310nm. Total optical power: 27dBm. Optical power / port: 16,5dBm | 1 |
| 310011 | EDFA 1617 | 16-way optical amplifier 1550nm + multiplexer 1490nm and 1310nm. Total optical power: 31dBm. Optical power / port: 17dBm  | 1 |
| 310022 | EDFA 3219 | 32-way optical amplifier 1550nm + multiplexer 1490nm and 1310nm. Total optical power: 34dBm. Optical power / port: 19dBm  | 1 |



EDFA 816



EDFA 3219

## OPTICAL SPLITTERS CM SERIE

|        |         |                                                              |   |
|--------|---------|--------------------------------------------------------------|---|
| 274103 | CM RF 2 | Optical splitter with 2 outputs. Compatible with CM headend. | 1 |
| 274104 | CM RF 4 | Optical splitter with 4 outputs. Compatible with CM headend. | 1 |
| 274105 | CM RF 8 | Optical splitter with 8 outputs. Compatible with CM headend. | 1 |

## CM SERIES MOUNTING CHASSIS

|        |         |                                                            |   |
|--------|---------|------------------------------------------------------------|---|
| 080005 | CHM TR  | Wall-mount support, 6 units (5 modules + 1 power supply)   | 1 |
| 080008 | CH 3 TR | Wall-mount support, 3 units (2 modules + 1 power supply)   | 1 |
| 080006 | CHR TR  | Support for 19" rack, 6 units (5 modules + 1 power supply) | 1 |



CM RF 8





SSCF

SSCF + SCF 8



RO 4 LR



RO 88 AGC



RO 90 FI AGC



ON 129 AC



TO LR XXXX



JMP -1 / STI-3.5 / TSI-1/9



JXP X

### SPLITTERS ÓPTICOS COMPACTOS

|        |        |                                                                         |   |
|--------|--------|-------------------------------------------------------------------------|---|
| 366133 | SCF 2  | Fiber optic PLC modular (cassette) splitter 1x2 with SC/APC connectors  | 1 |
| 366134 | SCF 4  | Fiber optic PLC modular (cassette) splitter 1x4 with SC/APC connectors  | 1 |
| 366135 | SCF 8  | Fiber optic PLC modular (cassette) splitter 1x8 with SC/APC connectors  | 1 |
| 366136 | SCF 16 | Fiber optic PLC modular (cassette) splitter 1x16 with SC APC connectors | 1 |
| 366137 | SCF 32 | Fiber optic PLC modular (cassette) splitter 1x32 with SC/APC connectors | 1 |
| 366138 | SSCF   | Wall fixing bracket for SCF splitters                                   | 1 |

### HEADEND OPTICAL RECEIVER 5-200 MHZ

|        |        |                                                                                                                                   |   |
|--------|--------|-----------------------------------------------------------------------------------------------------------------------------------|---|
| 275001 | RO 4LR | Headend optical receiver for return path. QUAD 1200-1620nm. Optical input power: 0...-23dbm. Output: 5-200MHz 120dBμV. TEST -20dB | 1 |
|--------|--------|-----------------------------------------------------------------------------------------------------------------------------------|---|

### OPTICAL RECEIVER 1GHz

|        |           |                                                                                                                                   |   |
|--------|-----------|-----------------------------------------------------------------------------------------------------------------------------------|---|
| 270002 | RO 88 AGC | Optical receiver FTTH. IN 1260-1620 nm. Optical power 2...-15dBm (AGC 0...-12dBm) / OUT 47-862 MHz. Output level >80 dBuV. SC/APC | 1 |
|--------|-----------|-----------------------------------------------------------------------------------------------------------------------------------|---|

### OPTICAL RECEIVER 2,6 GHz

|        |              |                                                                                                                                   |   |
|--------|--------------|-----------------------------------------------------------------------------------------------------------------------------------|---|
| 270003 | RO 90 FI AGC | Optical receiver FTTH. IN 1260-1620 nm. Optical power 3...-15dBm (AGC 0...-12dBm) / OUT 47-2600 MHz. Output level >80dBuV. SC/APC | 1 |
|--------|--------------|-----------------------------------------------------------------------------------------------------------------------------------|---|

### OPTICAL NODES

#### HFC OPTICAL NODES 1GHz DOCSIS 3.0

|        |                |                                                                                                                                                               |   |
|--------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 273002 | ON 129 AC      | Optical node 87-1002MHz. Ready to plug-in TX 5-65MHz. Output level: 129dBμV (DIN 45004B / 114dBμV 42 Ch. CENELEC). Working voltage Vac. PG11 connectors. IP64 | 1 |
| 274001 | TO LR 1310 FP  | Plug-in optical transmitter for ON 129 AC node. Laser 1310nm FP. Optical power 0dBm. Status indicator                                                         | 1 |
| 274002 | TO LR 1310 DFB | Plug-in optical transmitter for ON 129 AC node. Laser 1310nm DFB. Optical power 3dBm. Status indicator                                                        | 1 |
| 274003 | TO LR 1550 DFB | Plug-in optical transmitter for ON 129 AC node. Laser 1550nm DFB. Optical power 3dBm. Status indicator                                                        | 1 |
| 274005 | TO XX CWDM     | Plug-in optical transmitter for ON 129 AC node. CWDM laser with wavelength on demand. Optical output power 3dBm. Status indicator                             | 1 |

#### 1GHz OPTICAL NODE ACCESSORIES

|        |         |                                             |    |
|--------|---------|---------------------------------------------|----|
| 102008 | JMP-1   | Direct signal pass-through for ON 129 AC    | 1  |
| 102009 | STI-3,5 | Signal splitter (-3,5/-3,5dB) for ON 129 AC | 1  |
| 102010 | TSI-1/9 | Signal TAP (-1/-9dB) for ON 129 AC          | 1  |
| 102011 | JXP 0   | Attenuator 0dB for ON 129 AC                | 10 |
| 102012 | JXP 2   | Attenuator 2dB for ON 129 AC                | 10 |
| 102013 | JXP 3   | Attenuator 3dB for ON 129 AC                | 10 |
| 102014 | JXP 6   | Attenuator 6dB for ON 129 AC                | 10 |
| 102015 | JXP 9   | Attenuator 9dB for ON 129 AC                | 10 |
| 102016 | JXP 12  | Attenuator 12dB for ON 129 AC               | 10 |
| 274004 | 2FPG11  | Adapter for 2 fibers to PG11 for ON 129 AC  | 1  |

TDT + SAT

07

---

DTT / SAT  
OVER FIBER



TO 4ST



SSCF



SSCF + SCF 8



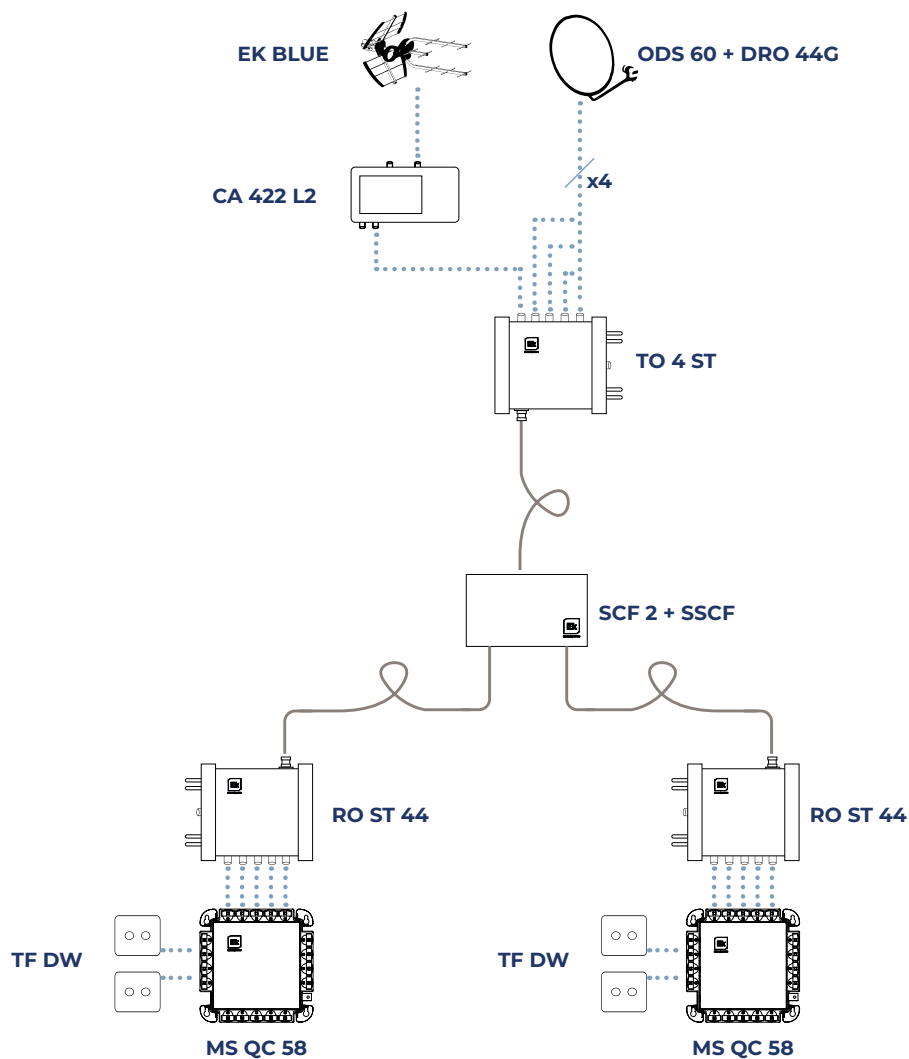
RO ST 44

### TER + SAT (4 POL) IN ONE SINGLE FIBER

|        |          |                                                                                                                                                                                    |   |
|--------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 276001 | TO 4ST   | Optical transmitter for 4 polarities SAT + Terrestrial. 4 FI satellite inputs + 1 input 47-862 MHz. Wavelength: 1510-1570nm. Optical power 3dBm. SC / APC connector. Wall-mounting | 1 |
| 366133 | SCF 2    | Fiber optic PLC modular (cassette) splitter 1x2 with SC/APC connectors                                                                                                             | 1 |
| 366134 | SCF 4    | Fiber optic PLC modular (cassette) splitter 1x4 with SC/APC connectors                                                                                                             | 1 |
| 366135 | SCF 8    | Fiber optic PLC modular (cassette) splitter 1x8 with SC/APC connectors                                                                                                             | 1 |
| 366136 | SCF 16   | Fiber optic PLC modular (cassette) splitter 1x16 with SC/APC connectors                                                                                                            | 1 |
| 366137 | SCF 32   | Fiber optic PLC modular (cassette) splitter 1x4 with SC/APC connectors                                                                                                             | 1 |
| 366138 | SSCF     | Wall fixing bracket for SCF splitters                                                                                                                                              | 1 |
| 276003 | RO ST 44 | Optical receiver for 4 polarities SAT + Terrestrial. 4 outputs HL / HH / VL / VH + 1 output 47-862 MHz. SC / APC fiber connector. Power supply included                            | 1 |

See available multiswitches on pages 19, 20 y 21

### DISTRIBUTION EXAMPLE OF 4 SAT POLARITIES AND TERRESTRIAL THROUGH 1 FIBER





# 08

GPON



OLT 8E



OLT 16E



THE BEST  
OPTION FOR  
PROFESSIONALS



SWH-TR



TOR 3 GPON · TOR 3 GPON FI



EDFA 1617



UPS 1000



ONT 4AC

## ELECTRÓNICA DE RED

|        |           |                                                                            |   |
|--------|-----------|----------------------------------------------------------------------------|---|
| 334200 | SWG 24 L2 | Ethernet Layer2 Managed Switch . 24 ports x 1Gbps Ethernet + 4 x SFP 1Gbps | 1 |
| 280070 | RGM       | Multi-port router (10 x 1Gb)                                               | 1 |

## GPON OLTs / MANAGEMENT SERVER

|        |            |                                                                                                                         |   |
|--------|------------|-------------------------------------------------------------------------------------------------------------------------|---|
| 310008 | OLT 8E     | GPON headend (OLT). 8 downlink ports and 8 uplink ports (2 x 10GE and 6 x GE). Redundant power supply                   | 1 |
| 310009 | OLT 16E    | GPON headend (OLT). 16 downlink ports and 8 uplink ports (2 x 10GE and 6 x GE). Redundant power supply                  | 1 |
| 310025 | SFP UP     | SFP for Gb uplink Ethernet RJ45                                                                                         | 1 |
| 310036 | SFP 10G UP | SFP for 10G uplink Ethernet RJ45                                                                                        | 1 |
| 310018 | SFP C+     | SFP for downlink ports C+ type                                                                                          | 1 |
| 310035 | SFP C++    | SFP for downlink ports C++ type                                                                                         | 1 |
| 310040 | SWH-BASIC  | Desktop server for GPON configuration and provisioning for hospitality. TR069. Maximum of 40 ONT. Power supply included | 1 |
| 310041 | SWH-MINI   | Desktop server for GPON configuration and provisioning for hospitality. CM headend format. TR069. Maximum of 120 ONT.   | 1 |
| 310026 | SWH-TR     | Rack server for GPON configuration and provisioning for hospitality. TR069                                              | 1 |
| 311008 | EK SOP     | Servers remote support and commissioning                                                                                | 1 |

## OPTICAL TRANSMITTER FOR RF OVERLAY HEADENDS

|        |               |                                                                                                    |   |
|--------|---------------|----------------------------------------------------------------------------------------------------|---|
| 271021 | TOR 3 GPON    | Professional Optical transmitter IN 47-1000MHz / OUT 1550nm DFB laser. Optical power: 3dBm. SC/APC | 1 |
| 271020 | TOR 3 GPON FI | Professional Optical transmitter IN 47-2600MHz / OUT 1550nm DFB laser. Optical power: 3dBm. SC/APC | 1 |

## EDFAs GPON PARA RF OVERLAY

|        |           |                                                                                                                           |   |
|--------|-----------|---------------------------------------------------------------------------------------------------------------------------|---|
| 310023 | EDFA 812  | 8-way optical amplifier 1550nm + multiplexer 1490nm and 1310nm. Total optical power: 23dBm. Optical power / port: 12,5dBm | 1 |
| 310010 | EDFA 816  | 8-way optical amplifier 1550nm + multiplexer 1490nm and 1310nm. Total optical power: 27dBm. Optical power / port: 16,5dBm | 1 |
| 310011 | EDFA 1617 | 16-way optical amplifier 1550nm + multiplexer 1490nm and 1310nm. Total optical power: 31dBm. Optical power / port: 17dBm  | 1 |
| 310022 | EDFA 3219 | 32-way optical amplifier 1550nm + multiplexer 1490nm and 1310nm. Total optical power: 34dBm. Optical power / port: 19dBm  | 1 |

## UPS

|        |          |                                                                                                          |   |
|--------|----------|----------------------------------------------------------------------------------------------------------|---|
| 312004 | UPS 1000 | 1KVA online UPS. 92% AC/AC efficiency. Power factor 0.9. Autonomy 9 minutes. Display and 19" rack format | 1 |
| 312005 | PB UPS   | External batteries                                                                                       | 1 |
| 312006 | SNMP UPS | SNMP control board                                                                                       | 1 |

## ONTs

|        |             |                                                                 |   |
|--------|-------------|-----------------------------------------------------------------|---|
| 310032 | ONT 2W<br>E | GPON network terminal. 1 GE + 1 FE + 2 POTS + WiFi b/g/n 2.4GHz | 1 |
| 310017 | ONT 4 AC    | GPON network terminal. 4 GE + 2 POTS + WiFi b/g/n/ac 2.4/5GHz   | 1 |



|        |           |                                                                                                 |   |
|--------|-----------|-------------------------------------------------------------------------------------------------|---|
| 310049 | ONT 4 W6  | GPON network terminal. 4 GE + 1 POTS + WiFi 6 (3000Mbps)                                        | 1 |
| 310033 | ONT 4 POE | GPON network terminal (ONT) + Wireless router. 4 ports GE with PoE supply 48V (max 60W). SC/ACP | 1 |



ONT 4 POE



ONT 4 W6

### RF OVERLAY OPTICAL RECEIVERS

|        |              |                                                                                                                                   |   |
|--------|--------------|-----------------------------------------------------------------------------------------------------------------------------------|---|
| 270004 | RO 88 CWD    | Active optical receiver 1GHz 1550nm + mux 1490nm/ 1310nm. Input optical power 2...-15dBm (AGC 0...-12dBm). Output level > 80dBμV. | 1 |
| 270005 | RO 68 CWD    | Passive optical receiver 1GHz 1550nm + mux 1490nm/ 1310nm. Input optical power 0...-10dBm. Output level: >62dBμV                  | 1 |
| 270006 | RO 65 FI CWD | Passive optical receiver 2,4 GHz 1550nm + mux 1490nm/ 1310nm. Input optical power 0...-10dBm. Output level >60dBμV                | 1 |
| 270007 | RO 90 FI CWD | Active optical receiver 2,4GHz 1550nm + mux 1490nm/ 1310nm. Optical level 2...-15dBm (AGC 0...-12dBm). Output level >80dBμV       | 1 |

### INDUSTRIAL ONTs

|        |              |                                                                                                                                                                                       |   |
|--------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 310037 | ONT 4 POE IN | Industrial GPON network terminal. 4 ports GE with 48 Vdc PoE (max 60 W). Maximum working temperature 65° C.                                                                           | 1 |
| 310029 | ONT IN       | Industrial GPON network terminal. 4 ports GE + 2 ports POTS + WiFi b/g/n/ac 2.4/5GHz. 12Vdc power supply via terminals. SMA connectors for WiFi 2.4 / 5GHz antennas. DIN rail fixing. | 1 |
| 310030 | ANT-24       | WiFi 2,4GHz antenna for ONT IN.                                                                                                                                                       | 1 |
| 310031 | ANT-58       | WiFi 5GHz antenna for ONT IN.                                                                                                                                                         | 1 |



RO 88 CWD



ONT 4 POE IN

### UPS FOR ONT

|        |        |                                    |   |
|--------|--------|------------------------------------|---|
| 312001 | UPS 16 | UPS for ONTs 16W/h. LiPo batteries | 1 |
| 312002 | UPS 32 | UPS for ONTs 32W/h. LiPo batteries | 1 |

### RACKS AND ACCESSORIES \*

\* Consultar gama completa en el catálogo **OPENETICS**

### FIBER TRAYS AND ACCESSORIES FOR 19" RACKS

|        |           |                                                                                                                 |         |
|--------|-----------|-----------------------------------------------------------------------------------------------------------------|---------|
| 361012 | BF 24 C   | 24 ports pull-out tray with 24 SC/APC simplex adapters assembled. Antidust cap protectors. 1U                   | 1/5     |
| 361013 | BF 48 C   | 48 ports pull-out tray with 24 SC/APC duplex adapters assembled. Antidust cap protectors. 1U                    | 1/5     |
| 361018 | BF 24 E   | 24 ports pull-out tray with 24 SC/APC simplex adapters assembled. Fiber identifier. Antidust cap protectors. 1U | 1/5     |
| 361019 | BF 48 E   | 48 ports pull-out tray with 24 SC/APC duplex adapters assembled. Fiber identifier. Antidust cap protectors. 1U  | 1/5     |
| 363001 | A SCAPC S | Simplex SC/APC adapter with mounting flange                                                                     | 25/2000 |
| 363004 | A SCAPC D | Duplex SC/APC adapter with mounting flange. For replacing on BF 48 C                                            | 20/1000 |
| 363010 | T AD      | 48 screws bag for SC/APC adapters.                                                                              | 1 Bolsa |
| 363011 | TP AD S   | Protective cap for front telescopic tray SC connector                                                           | 1       |



BF 24 C



Highly stable pull-out tray



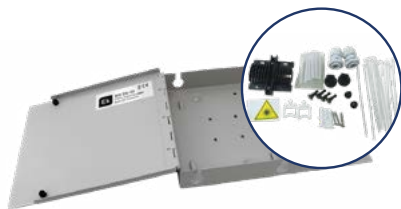
EDD 8

### FIBER OPTICS DISTRIBUTION BOX

|        |       |                                                                           |   |
|--------|-------|---------------------------------------------------------------------------|---|
| 361037 | EDD 8 | Distribution box with 8 SC/APC mounted adapters and 12 fusions tray. IP65 | 1 |
|--------|-------|---------------------------------------------------------------------------|---|



CFD 16



RS 24-12



ARS 12



RPG 32



SCF 32



SP FO 16



BOBINA CFOR

## OUTDOOR FTTH BOX

|        |        |                                                                              |   |
|--------|--------|------------------------------------------------------------------------------|---|
| 361036 | CFD 16 | FTTH distribution box, IP65, compatible with SCF splitters. Up to 16 outputs | 1 |
|--------|--------|------------------------------------------------------------------------------|---|

## DISTRIBUTION BOX

|        |                   |                                                                                                    |      |
|--------|-------------------|----------------------------------------------------------------------------------------------------|------|
| 361033 | RS 4M<br><b>E</b> | Fiber distribution box 4 fibers. SC/APC adapters included. It includes support for SP FO splitters | 1/30 |
| 361032 | RS 8-12           | Fiber distribution box 8 connectorized / 12 fused fibers. SC/APC adapters not included             | 1/10 |
| 361041 | RS 24-12          | Fiber distribution box 12 connectorized / 24 fused fibers. SC/APC adapters not included            | 1/20 |
| 361042 | ARS 12            | 12 mounted SC/APC adapters plate for RS 24-12                                                      | 1/20 |
| 396023 | RP FO P           | 2-zone plastic cabinet for 48 SC/APC adapters. 4 trays for up to 48 fusions. 2 doors               | 1/6  |

## DISTRIBUTION CABINETS WITH ASSEMBLED SPLITTER

|        |        |                                                                                |   |
|--------|--------|--------------------------------------------------------------------------------|---|
| 396022 | RPG 32 | Plastic cabinet two zones. 4 fusion trays. 2 doors. Assembled SCF 32 splitter. | 1 |
| 396024 | RPG 16 | Plastic cabinet two zones. 4 fusion trays. 2 doors. Assembled SCF 16 splitter. | 1 |
| 396025 | RPG 8  | Plastic cabinet two zones. 4 fusion trays. 2 doors. Assembled SCF 8 splitter.  | 1 |

## OPTICAL COMPACT SPLITTERS

|        |        |                                                                                          |   |
|--------|--------|------------------------------------------------------------------------------------------|---|
| 366133 | SCF 2  | Fiber optic PLC modular (cassette) splitter 1x2 with SC/APC connectors. 1U in BSCF rack  | 1 |
| 366134 | SCF 4  | Fiber optic PLC modular (cassette) splitter 1x4 with SC/APC connectors. 1U in BSCF rack  | 1 |
| 366135 | SCF 8  | Fiber optic PLC modular (cassette) splitter 1x8 with SC/APC connectors. 1U in BSCF rack  | 1 |
| 366136 | SCF 16 | Fiber optic PLC modular (cassette) splitter 1x16 with SC/APC connectors. 2U in BSCF rack | 1 |
| 366137 | SCF 32 | Fiber optic PLC modular (cassette) splitter 1x32 with SC/APC connectors. 4U in BSCF rack | 1 |
| 366139 | BSCFR  | Rack for mounting SCF splitters in 19" rack                                              | 1 |
| 366138 | SSCF   | Wall fixing bracket for SCF splitters                                                    | 1 |

## PLC SPLITTERS

|        |          |                                                      |       |
|--------|----------|------------------------------------------------------|-------|
| 366102 | SP FO 2  | Fiber optic PLC splitter 1x2 with SC/APC connectors  | 1/100 |
| 366104 | SP FO 4  | Fiber optic PLC splitter 1x4 with SC/APC connectors  | 1/100 |
| 366108 | SP FO 8  | Fiber optic PLC splitter 1x8 with SC/APC connectors  | 1/100 |
| 366116 | SP FO 16 | Fiber optic PLC splitter 1x16 with SC/APC connectors | 1/100 |
| 366132 | SP FO 32 | Fiber optic PLC splitter 1x32 with SC/APC connectors | 1/100 |

## FIBER CABLE

|        |              |                                                                                                                                 |                         |
|--------|--------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 360025 | CFOR 2 900-D | 2 fibers cable single-mode 900um G657-A2 LSZH CPR Dca white. <b>500m reel</b> compatible with Ek ROLLER                         | 500<br>18.000<br>36.000 |
| 360026 | CFOR 2 900N  | 2 single-mode 900um fibers cable G657-A2 BLACK FR-LSZH-UV for outdoor installations. <b>500m reel</b> compatible with Ek ROLLER | 500<br>18.000<br>36.000 |
| 360010 | CFO 12 900-D | 12 tight-buffered fibers cable single-mode 900um G657-A2 LSZH CPR Dca. Packed by meter                                          | m                       |
| 360011 | CFO 24 900-D | 24 tight-buffered fibers cable single-mode 900um G657-A2 LSZH CPR Dca. Packed by meter                                          | m                       |
| 360012 | CFO 48 900-D | 48 tight-buffered fibers cable single-mode 900um G657-A2 LSZH CPR Dca. Packed by meter                                          | m                       |

|        |            |                                                                                                  |   |
|--------|------------|--------------------------------------------------------------------------------------------------|---|
| 360023 | CFO 24 ARM | 24 fibers PSP armored Cable. 2 loose tubes with 12 fibers. 250D. SM G652D. Black PE outer jacket | 1 |
| 360024 | CFO 48 ARM | 48 fibers PSP armored Cable. 4 loose tubes with 12 fibers. 250D. SM G652D. Black PE outer jacket | 1 |
| 360007 | CFC        | Fiber cutting service                                                                            | 1 |
| 360015 | CPF        | Big reel for fiber optical cable                                                                 | 1 |
| 360020 | CPF 2      | Small reel for fiber optical cable                                                               | 1 |

#### FIBER PATCHCORDS WITH FLEXIBLE CONNECTORS EK ROLLER +

|        |            |                                                                                                       |      |
|--------|------------|-------------------------------------------------------------------------------------------------------|------|
| 361126 | PCR 12 FEK | 3mm G657-A2 patch cord with flexible SC/APC connectors. Length 12 m. With traction system at one end. | 1/16 |
| 361127 | PCR 18 FEK | 3mm G657-A2 patch cord with flexible SC/APC connectors. Length 18 m. With traction system at one end. | 1/16 |
| 361128 | PCR 24 FEK | 3mm G657-A2 patch cord with flexible SC/APC connectors. Length 24 m. With traction system at one end. | 1/16 |

#### 900 UM FIBER PIGTAILS

|        |        |                                                   |    |
|--------|--------|---------------------------------------------------|----|
| 362021 | PT 150 | 0,9mm pigtail fiber SC/APC connector. Length 1.5m | 25 |
|--------|--------|---------------------------------------------------|----|

#### PATCH CORDS

|        |            |                                                                      |       |
|--------|------------|----------------------------------------------------------------------|-------|
| 362002 | PC SA 25   | 3mm patch cord fiber with SC/APC connectors. Length 25 cm            | 1/250 |
| 362001 | PC SA 100  | 3mm patch cord fiber with SC/APC connectors. Length 1 m              | 1/250 |
| 362005 | PC SA-200F | 3mm patch cord fiber with flexible SC/APC connectors. Length 2 m     | 1/250 |
| 362003 | PC SA-P 25 | 3mm hybrid patch cord with SC/APC and SC/PC connectors. Length 25 cm | 1/250 |
| 362004 | PC SA-P200 | 3mm hybrid patch cord with SC/APC and SC/PC connectors. Length 2m    | 1/250 |

#### FIBER TERMINAL BOX AND ADAPTORS

|        |             |                                                                                                         |         |
|--------|-------------|---------------------------------------------------------------------------------------------------------|---------|
| 361101 | RT FO       | Empty optical fiber terminal rosette box. SC/APC adapters not included. Fits standard single back boxes | 1/25    |
| 363001 | A SCAPC S   | Simplex SC/APC adapter with mounting flange                                                             | 50/2000 |
| 363002 | A SCAPC S W | Simplex SC/APC adapter without mounting flange for SC KJ                                                | 50/2000 |
| 363003 | A SCAPC AD  | Simplex SC/APC adapter with anti dust cap                                                               | 25/2000 |
| 363011 | TP AD S     | Protective cap for unused hole (single adapter case) in RT FO                                           | 100     |
| 366001 | PFF 45      | 45mm heat shrinkable protetors for fusions. 50 units bag.                                               | 1       |

#### FIBER CONNECTOR

|        |       |                                       |        |
|--------|-------|---------------------------------------|--------|
| 363021 | CM SA | Mechanical SC/APC connector for fiber | 10/100 |
|--------|-------|---------------------------------------|--------|

#### TOOLS

|        |      |                            |   |
|--------|------|----------------------------|---|
| 364002 | H TJ | Scissors for optical fiber | 1 |
|--------|------|----------------------------|---|

CPR  
Dca

CFO 24 ARM

PCR 12 FEK  
PCR 18 FEK  
PCR 24 FEK

PT 150



PC SA-200F



RT FO

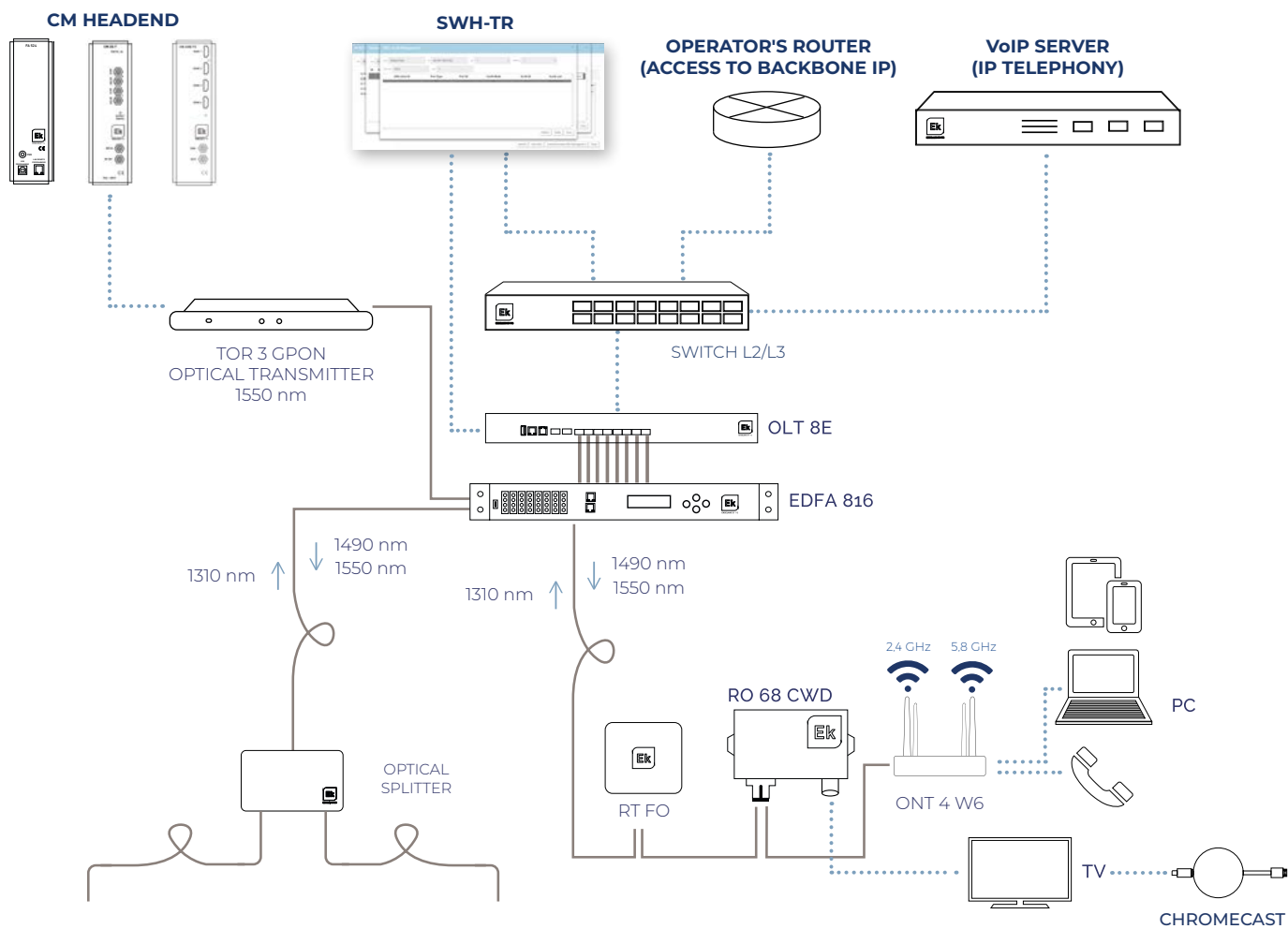


A SCAPC S



A SCAPC AD

## GPON BY EK: FTTH / FTTR FIBER OPTIC NETWORKS SOLUTION



For more information,  
check out our thematic  
magazine **GPON by EK**



# 09

---

SIGNAL METERS





METEK HDD

## METEK HDD

|        |           |                                                            |    |
|--------|-----------|------------------------------------------------------------|----|
| 240003 | METEK HDD | Professional field meter for DVB-T/T2 - S/S2 -C. Dolby DD+ | 1  |
| 241006 | C MTK     | METEK calibration service                                  | 1  |
| 165011 | AFF HQ    | High-Precision F Female to F Female Adapter                | 25 |
| 240009 | FA MK     | Replacement power supply for METEK meters                  | 1  |
| 241004 | BLMK      | Replacement carrying bag                                   | 1  |
| 241005 | CNMK      | Replacement strap                                          | 1  |

# M E T E K HDD

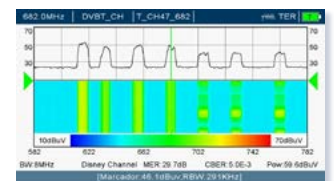


NOW WITH  
DATALOGGER  
INCLUDED\*

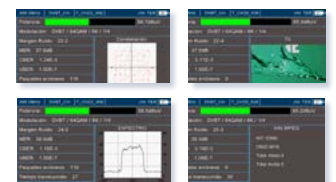
\* Free update for Ek clients



Main menu



**Spectrogram.** Identification of the evolution of signals



Various modes of display combination

- DVB-S2/S, DVB-T2/T, DVB-C Demodulation and analysis
- High-resolution 7-inch TFT-LCD screen
- High quality DSP Spectrum from 50-2200MHz with 50dB of onscreen dynamic range
- Supports HEVC(H.265), H.264 and MPEG2 decoding, SD & HD
- Single F Male connector input featuring a fully automatic attenuator with channel power of up to 120dBμV in 5dB steps
- Measures Channel power, Noise margin, MER, CBER, VBER, TS Errors, Constellation
- RF power supply from 5 to 24V, in 1V steps
- Supports DVB-S2, SATCR and DCSS
- Special spectrum modes (Max Hold, Spectrogram) for interference detection and LTE Measuring
- Efficient and user friendly User Interface
- Full TS recording to external USB drive
- Standard 6h battery life per charge
- Supports automatic adjustment of screen brightness
- Supports spectrum + TV decoding, and spectrum + MPEG information simultaneously
- Standby mode for instant power on
- Multi-function wheel navigation
- Screen capture to external USB drive with a dedicated button
- SAT support, TP update separately via USB or FTP (WiFi)
- Firmware updates through USB or FTP (WiFi)
- EAC3 Dolby DD + codec
- Includes a second transport belt
- USB memory for capture storage



# 10

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EKOAX AND GIGAEKOAX  
INTERNET OVER COAXIAL



IPC-BMH



IPC M300



IPC-M2



IPC-B MINI



MI RP



MI RP IEC



KIT IP



KIT IP-W

**GIGAekoax**


GIGABOX

## EKOAX (INTERNET OVER COAXIAL)

### SINGLE MASTER HOME SOLUTION

|        |         |                                                                                                                                                                                                                   |      |
|--------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 250015 | IPC-BMH | Plug&play mini-master module for WiFi and IPTV extension in homes. Transmission frequency 7.5 to 65MHz. Output level 115dBμV. 12Vdc plug-in power supply included. Maximum connection 6 x IPC-S / IPC-S2 / IPC-S3 | 1/80 |
|--------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|

### MASTER PROFESSIONAL SOLUTION

|        |                    |                                                                                                                                                                                                                           |        |
|--------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 250003 | IPC-M2<br><b>E</b> | Headend module for EKOAX system. Transmission of IP data over coaxial cable. 1 Gbps-HDTV. RF mix. Transmission frequency of IP data: 7,5 - 65 MHz. Output level: 120 dBuV. Working voltage: 12 Vdc. Power supply included | 1      |
| 132001 | MI RP              | Mix-demix 5-65 MHz / 85-2150 MHz                                                                                                                                                                                          | 10/100 |

### USER UNIT

|        |            |                                                                                                                                 |        |
|--------|------------|---------------------------------------------------------------------------------------------------------------------------------|--------|
| 250013 | IPC-B MINI | EKOAX slave module for coaxial data reception. RF in. 1 LAN port                                                                | 1/80   |
| 250024 | IPC-S3     | EKOAX slave module for coaxial data reception. RF in/out. WiFi b/g/n 2.4 GHz, 4 LAN ports. 2 antennas. 300Mbps                  | 1/60   |
| 132002 | MI RP IEC  | Mixer/demixer for EKOAX compatible with TV sockets: TV (85-1000 MHz) / DATA (5-65 MHz). Insertion loss: 1dB (TV) / 0.5dB (DATA) | 10/100 |

### IPTV EXTENDER KIT

|        |           |                                                 |   |
|--------|-----------|-------------------------------------------------|---|
| 250022 | KIT IP    | Kit for IPTV extension over coaxial             | 1 |
| 250023 | KIT IP-W  | Kit for IPTV and WiFi extension over coaxial    | 1 |
| 250025 | KIT IP AC | Kit for IPTV and WiFi AC extension over coaxial | 1 |

## EKOAX PLUS

|        |          |                                                                                                                                                          |      |
|--------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 250019 | IPC M300 | EKOAX PLUS master module for coaxial data transmission. RF mix Frequency: 7.5 - 65 MHz. Output level: 115 dBuV. Self-powered 230VAC                      | 1    |
| 250020 | IPC 24   | EKOAX PLUS slave module for coaxial data reception. RF in / out. WiFi b/ g/n 2.4 GHz, 4 LAN ports. 2 antennas. 300 Mbps                                  | 1/20 |
| 250021 | IPC AC   | EKOAX PLUS slave module for coaxial data reception. RF in / out. WiFi b/g/n/AC 2.4/5 GHz, 4 LAN ports. 2 antennas. 300 Mbps (2,4 GHz) / 800 Mbps (5 GHz) | 1/20 |
| 311008 | EK SOP   | Servers remote support and commissioning                                                                                                                 | 1    |

## GIGAekoax

|        |          |                                                                                                                                             |          |
|--------|----------|---------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 250026 | GIGABOX  | Intelligent master/slave module for coaxial data reception. RF in/out. Maximum 16 devices. Transmission frequency. 5-100MHz. 1 Gigabit port | 1/20     |
| 132003 | MI RP GB | Mixer/demixer for GIGAekoax: TV (120-2150 MHz) / DATA (5-100 MHz). Insertion loss: 1dB (TV) / 0.5dB (DATA)                                  | 1/10/100 |

## EKOAX Plus INTERNET OVER COAXIAL CABLE

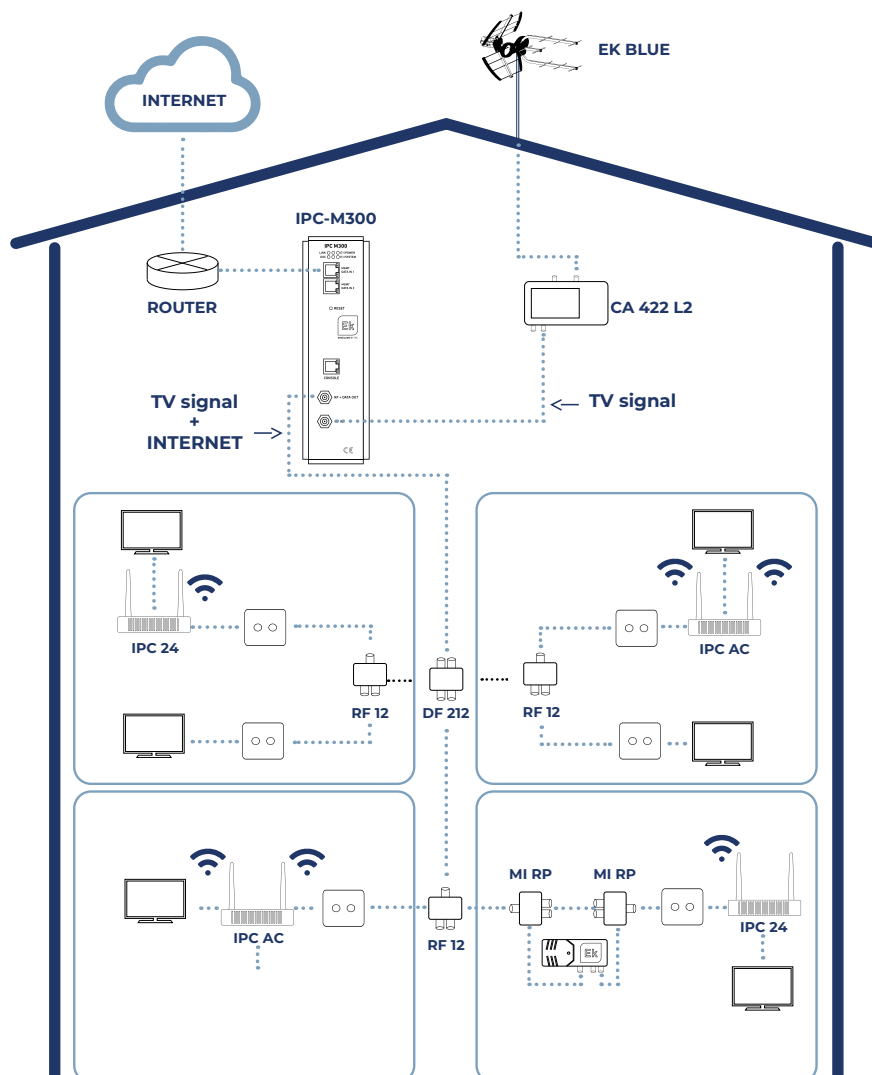
The EKOAX PLUS system from Ekselans by ITS have been specially designed to convert the coaxial network into a data EKOAX PLUS equipment allows to transmit and receive the internet signal through the existing coaxial cable of a television installation, without the need to intervene on the infrastructure.

Simply by adding a master head unit (IPC-M2 / IPC-M300) and a user equipment (IPC-S2 / IPC24 / IPCAC) at each point to which the internet signal is to be carried, the television installation can be updated to transmit IP data with high speed. The user device also acts as a WiFi router so you can create a wireless network easily and with quality wherever the IPC S2 / 24 / AC comes installed.

A single master device allows managing up to 253 user equipment with encrypted communications with each of them. It is also possible to increase the number of user devices using the same network, simply by installing new master equipment in parallel.

## GIGA EKOAX THE EVOLUTION FOR 1 Gbps COMMUNICATION OVER COAXIAL CABLE

GIGA EKOAX is the new technology that allows very high-speed transmission through coaxial cables. The Gigabox equipment is a smart device that can be installed as a primary or secondary device, detecting automatically what is its function in the installation. With a maximum of 16 devices per installation (1 primary + 15 secondary), Gigabox performs in the 5 to 100 MHz frequency band for true maximum connection of 1 Gbps.



# WiFi NETWORK APPLICATIONS



## WiFi RANGE PRODUCTS



WiFi ACCESS  
POINTS SYSTEM



EK CLOUD



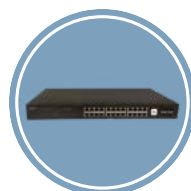
CLOUDPRO



MOBILE APPS



CONTROLLERS



SWITCHES



HOTSPOT



LAN CABLES &  
ACCESSORIES



The background of the entire page is a light blue-grey color. A hand is visible, with the index finger pointing upwards towards a glowing yellow Wi-Fi symbol. The symbol is composed of three concentric arcs. The background is overlaid with a faint, white network diagram consisting of numerous small dots connected by thin lines, creating a mesh-like pattern. A white rectangular frame is positioned in the upper half of the image, enclosing the Wi-Fi symbol and the pointing finger. In the lower-left corner, there is a dark blue rectangular area containing the page number and title.

# 11

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WiFi, SWITCHES,  
4G ROUTERS AND  
LAN CABLES

# AX WiFi SERIES



AX 3000



AX 3000P



AX 3000 OLP



UC-AX



SWG 24-AX



For more information,  
check out our thematic  
magazine **AX RANGE**

## WIFI ACCESS POINTS SYSTEM

### CEILING ACCESS POINTS

|        |                     |                                                                                                                                                                                                                          |   |
|--------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 331019 | AX 3000<br><b>N</b> | Indoor WiFi Access Point WiFi6 (802.11ax) 3000Mbps 1G PoE IN port + 1G/2.5G SFP uplink port PoE IN 48Vdc./ DC-IN                                                                                                         | 1 |
| 331026 | AX 8800<br><b>N</b> | WiFi 6 Access Point (IEEE 802.11AX). Four dual-band radios 8642 Mbps. 5GE POE input port + 2.5GE SFP uplink port. POE 48 Vdc IEEE 802.3bt/at/af and DC-IN 54 Vdc. 10 spatial streams. Compatible with CloudPro and apps. | 1 |

### WALL ACCESS POINTS

|        |                      |                                                                                                                                            |   |
|--------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---|
| 331020 | AX 3000P<br><b>N</b> | Indoor wall-mount WiFi Access Point WiFi6 (802.11ax) 3000Mbps 1GE PoE IN port + 4GE ports (1 PoE OUT) 1 Console Port. PoE IN 48Vdc./ DC-IN | 1 |
|--------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---|

### OUTDOOR ACCESS POINT

|        |                         |                                                                                                                                      |   |
|--------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------|---|
| 331021 | AX 3000 OLP<br><b>N</b> | Outdoor WiFi Access Point. WiFi6 (802.11ax) 3000Mbps. 1G PoE IN port + 1G/2.5G SFP uplink port. 1 Console Port. PoE IN 48Vdc./ DC-IN | 1 |
|--------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------|---|

### CONTROLLER

|        |                        |                                                                                                                |   |
|--------|------------------------|----------------------------------------------------------------------------------------------------------------|---|
| 331022 | UC-AX<br><b>N</b>      | High-performance controller for WiFi networks. Supports up to 32 AX access points (64 for the AX 3000P model). | 1 |
| 331023 | UC AX L16<br><b>N</b>  | Expansion pack 16 AX licenses (32 for the AX 3000P model).                                                     |   |
| 331024 | UC AX L32<br><b>N</b>  | Expansion pack 32 AX licenses (64 for the AX 3000P model).                                                     |   |
| 331025 | UC AX L128<br><b>N</b> | Expansion pack 128 AX licenses (256 for the AX 3000P model).                                                   |   |

### SWITCH POE

|        |                         |                                                                                                            |   |
|--------|-------------------------|------------------------------------------------------------------------------------------------------------|---|
| 334201 | SWG 24-AX<br><b>N</b>   | 24-port GE PoE+ managed switch with 4 SFP ports                                                            | 1 |
| 331027 | SWG 48-AXL3<br><b>N</b> | Managed switch 48 ports 10/100/1000. 4 SFP 10GE ports. POE+ up to 405W. Compatible with CloudPro and apps. | 1 |

## AX WiFi SERIES

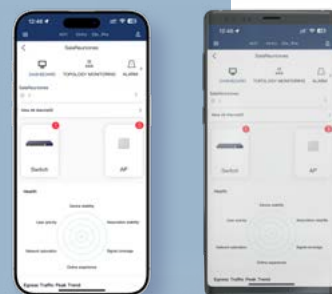


EU-based cloud servers

## NEW PROFESSIONAL RANGE OF WiFi ACCESS POINTS

### MOBILE APPLICATIONS

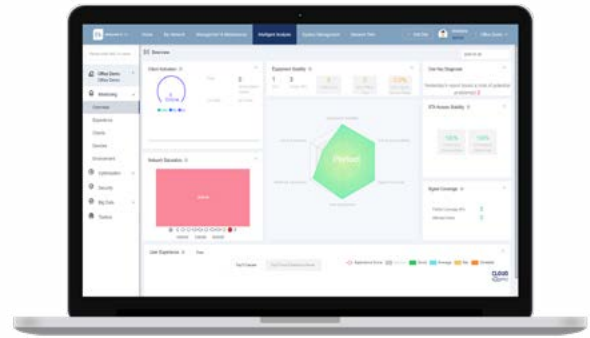
Unified Cloud-Based  
WiFi Network  
Management Platform



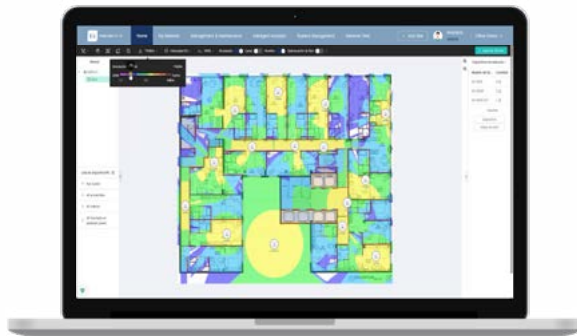


## UNIFIED CLOUD-BASED WIFI NETWORK MANAGEMENT PLATFORM

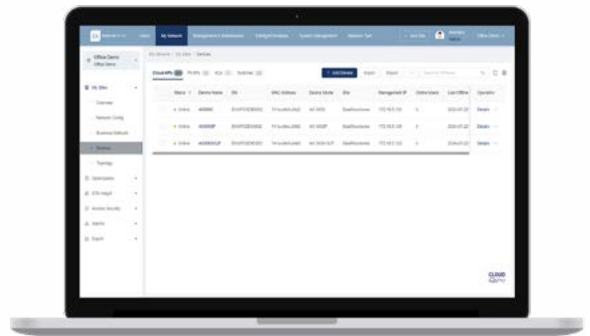
For more information:  
<https://ek.plus/>



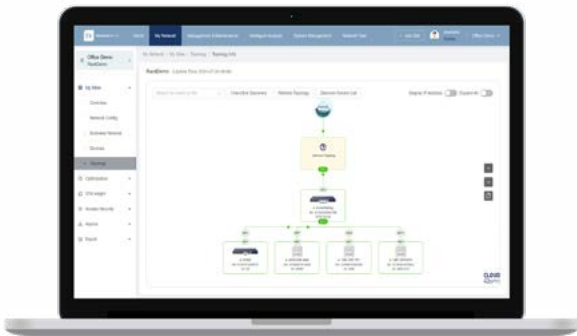
Enables the design, deployment, configuration, operation, and real-time analysis of WiFi networks



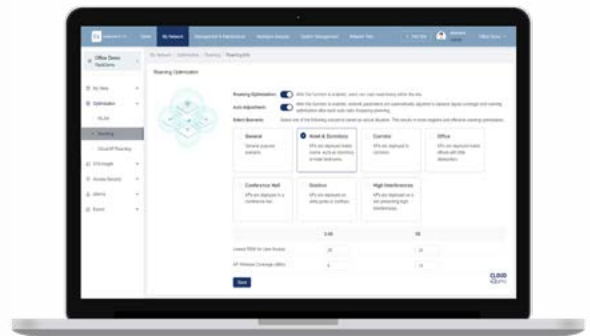
Includes a WiFi network design and planning tool (site survey and heat maps)



Remote execution of monitoring and diagnostic tasks for device connection status, configuration deployment, firmware updates, equipment reboots, and more



Automatic network provisioning option with auto-identification of the network topology



Network optimization and smart roaming between devices



For more information,  
 check out our thematic magazine  
**AX WiFi SERIES RANGE**



TR 300W6



TR 3000W6 OLP



UC MINI



UC TRB



POE 48



ODU LTE 4G

## INDOOR ACCESS POINTS - PROFESSIONAL SERIES TR HIGH CONCURRENCY

|        |                     |                                                                                                                                             |      |
|--------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------|------|
| 331001 | TR 2200<br><b>E</b> | Access Point 2T2R, 27dBm 2,4GHz/5 GHz. 2200Mbps (400+900+900), WiFi 802.11 b/g/n/ac Wave 2, PoE 48V. 2 ports 10/100/1000Mbps . High density | 1    |
| 331017 | TR 3000W6           | WiFi 6 2,4/5GHz access point. 3000Mbps (600+2400Mbps), 24dBm, WiFi 802.11 b/g/n/ac/ax 2 GE ports ,PoE 48V. Wave2. High density              | 1/10 |

## INDOOR ACCESS POINTS - PROFESSIONAL TR SERIES

|        |         |                                                                                                       |   |
|--------|---------|-------------------------------------------------------------------------------------------------------|---|
| 331006 | TR 750  | Access Point 2T2R, 27dBm 2,4GHz/5 GHz. 750Mbps, WiFi 802.11 b/g/n/ac Wave 2, PoE 48V. 2 RJ45 ports.   | 1 |
| 331007 | TR 1200 | Access Point 2T2R, 2,4GHz/5 GHz. 1200Mbps, 30dBm, WiFi 802.11 b/g/n/ac Wave 2, PoE 48V. 2 RJ45 ports. | 1 |

## OMNIDIRECTIONAL OUTDOOR ACCESS POINTS - PROFESSIONAL TR SERIES

|        |               |                                                                                                                                |      |
|--------|---------------|--------------------------------------------------------------------------------------------------------------------------------|------|
| 331008 | TR 1200 OLP   | Omnidirectional outdoor access point, 27 dBm, 1200Mbps, WiFi 802.11 b/g/n/ac 2,4 / 5 GHz.. 2 ports 10/100/1000Mbps. PoE 48Vdc. | 1/10 |
| 331018 | TR 3000W6 OLP | Omnidirectional outdoor access point. 27dBm, 2 10/100/1000 ports, 3000Mbps. WiFi 6 2,4/5GHz. PoE 48Vdc                         | 1/10 |

## LAN CONTROLLER - PROFESSIONAL TR SERIES

|        |         |                                                                                                                                                  |   |
|--------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------|---|
| -      | CSW     | PC software for TR series control and provisioning. Offline version. Available at <a href="http://www.ek.plus/software">www.ek.plus/software</a> | - |
| 331009 | UC MINI | Desktop format control and provisioning unit. Power supply from PC or included. Maximum 50 access points                                         | 1 |
| 331002 | UC TRB  | Desktop format control and provisioning unit. Power supply included. Maximum 300 access points                                                   | 1 |
| 331003 | UC TR   | Control and provisioning unit compatible with CM modular headend. Maximum 300 access points                                                      | 1 |
| 331010 | UC RACK | 19" rack format control and provisioning unit. Maximum 300 access points                                                                         | 1 |

## INDOOR ACCESS POINTS - AP SERIES

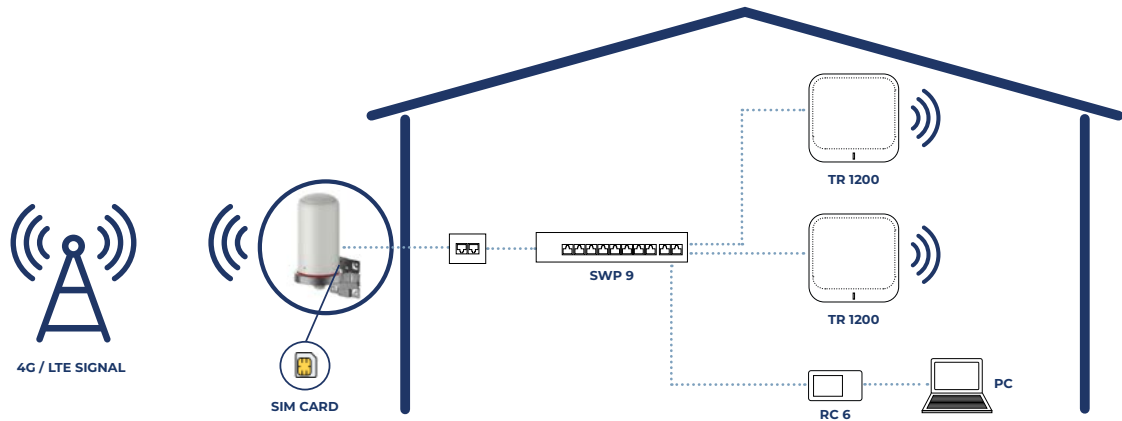
|        |           |                                                                                                             |      |
|--------|-----------|-------------------------------------------------------------------------------------------------------------|------|
| 330004 | AP 300 LP | Access Point 2T2R, 2,4GHz, 23dBm. 300Mbps, WiFi 802.11 b/g/n, PoE 24V, 1 port RJ45, power injector included | 1/20 |
|--------|-----------|-------------------------------------------------------------------------------------------------------------|------|

## PoE INJECTORS

|        |        |                                            |       |
|--------|--------|--------------------------------------------|-------|
| 332001 | POE 24 | PoE injector 24Vdc/1A. 10/100 Mbps         | 1/100 |
| 332002 | POE 48 | PoE injector 48Vdc/0,5A. 100/100/1000 Mbps | 1/90  |

## OUTDOOR 4G ROUTER - ODU

|        |            |                                                                                                                                                                         |      |
|--------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 333014 | ODU LTE 4G | 4G LTE Cat 16 omnidirectional outdoor router with support included. TDD DownLink 700Mbps UpLink 30Mbps. FDD DownLink 900Mbps UpLink 150Mbps. PoE in:19V/1,26A included. | 1/48 |
|--------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|



## SWITCHES

### MANAGED SWITCH

|        |           |                                                                            |     |
|--------|-----------|----------------------------------------------------------------------------|-----|
| 334200 | SWG 24 L2 | Ethernet Layer2+ Managed Switch. 24 ports x 1Gbps Ethernet + 4 x SFP 1Gbps | 1/5 |
|--------|-----------|----------------------------------------------------------------------------|-----|

### PoE SWITCHES

|        |        |                                                                                                                   |      |
|--------|--------|-------------------------------------------------------------------------------------------------------------------|------|
| 334001 | SWP 5  | Switch PoE 4 ports. 4x10/100/1000Mbps. PoE IEEE802.3af/at. 1 uplink port 10/100/1000 Mbps, 1 uplink port SFP. 96W | 1/10 |
| 334002 | SWP 9  | Switch PoE 8 ports. 8x10/100/1000Mbps PoE IEEE802.3af/at. 2 uplink ports 10/100/1000 Mbps. 120W                   | 1/10 |
| 334003 | SWP 26 | Switch PoE 24 ports. 24x10/100/1000Mbps. PoE IEEE802.3af/ at. 2 uplink port 10/100/1000 Mbps, 2 uplink port SFP.  | 10   |

### SWITCHES GIGABIT

|        |        |                                                        |      |
|--------|--------|--------------------------------------------------------|------|
| 334100 | SW5 BP | Switch Ethernet 5 ports. 10 /100/1000. Plastic housing | 1/50 |
| 334101 | SW8 M  | Switch Ethernet 8 ports. 10 /100/1000. Metal housing   | 1/50 |
| 334102 | SW24 M | Switch Ethernet 24 ports. 10 /100/1000. 19" Rack       | 1/5  |

## LAN CABLE

### LAN CABLE CAT6 EK ROLLER

|        |                            |                                                                                    |                         |
|--------|----------------------------|------------------------------------------------------------------------------------|-------------------------|
| 390018 | CLUR 6 CUD<br><b>E</b>     | LAN cable Cat6 U/UTP CU white LSZH CPR Dca. <b>305m wooden drum</b> for EK ROLLER  | 305<br>10.980<br>21.960 |
| 390026 | CLUR 6 CUD/500<br><b>E</b> | LAN cable Cat6 U/UTP CU white LSZH CPR Dca. <b>500m wooden drum</b> for EK ROLLER  | 500<br>18.000<br>36.000 |
| 390022 | CLUR 6 CUB<br><b>E</b>     | LAN Cable Cat6 U/UTP CU white LZSH CPR B2ca. <b>305m wooden drum</b> for EK ROLLER | 305<br>10.980<br>21.960 |
| 390017 | CLUR 6 CCA                 | LAN Cable Cat6 U/UTP CCA CPR Eca. <b>305m wooden drum</b> for EK ROLLER            | 305<br>10.980<br>21.960 |
| 390016 | CLUR 6 CCA-100             | LAN Cable Cat6 U/UTP CCA CPR Eca. <b>100 m reel</b> for EK ROLLER                  | 400<br>7200<br>14400    |

### LAN CABLE CAT6A EK ROLLER

|        |          |                                                                                     |                         |
|--------|----------|-------------------------------------------------------------------------------------|-------------------------|
| 390024 | CLUR 6AB | LAN Cable Cat6A U/UTP CU white LZSH CPR B2ca. <b>305m wooden drum</b> for EK ROLLER | 305<br>10.980<br>21.960 |
|--------|----------|-------------------------------------------------------------------------------------|-------------------------|

MANAGEABLE  
L2+



SWG 24 L2



SWP 5



SWP 26



SW5 BP



SW8 M

Ek ROLLER



CLUR 6 CUD



## TR PROFESSIONAL SERIES CONTROLLERS

UC-XX controllers, available in different models and modes, offer simple, efficient, secure and centralized control of the professional TR range WiFi access points infrastructure. Suitable for any type of installation and client, makes maintenance tasks easy for IT personnel.



**REAL TIME NETWORK STATUS**

**ALERTS**

| Nome    | MAC               | IP Address    | Model      | FW     | On | Template | Group         | Actions |
|---------|-------------------|---------------|------------|--------|----|----------|---------------|---------|
| AP 01   | 74-1A-E3-E3-4F-C3 | 172.16.50.182 | AP-TR-1300 | V1.7.7 | 0  |          | Zonas Comunes |         |
| AP 02   | 74-1A-E3-E3-08-92 | 172.16.50.183 | AP-TR-2000 | V1.7.7 | 0  | 22000    | Zonas Comunes |         |
| AP 03   | 74-1A-E3-E3-08-A6 | 172.16.50.181 | AP-TR-2000 | V1.7.7 | 0  | 22000    | Zonas Comunes |         |
| AP 04   | 74-1A-E3-E3-0D-58 | 172.16.50.178 | AP-TR-2000 | V1.7.7 | 0  | 22000    | Zonas Comunes |         |
| AP 05   | 74-1A-E3-E3-16-32 | 172.16.50.206 | AP-TR-250  | V1.1.1 | 0  | VM       | Zonas Comunes |         |
| AP 06   | 74-1A-E3-E3-50-08 | 172.16.50.191 | AP-TR-1300 | V1.7.7 | 0  |          | Zonas Comunes |         |
| Sala 01 | 74-1A-E3-E3-50-08 | 172.16.50.182 | AP-TR-1300 | V1.7.7 | 0  | 51000    | Oficinas      |         |
| Sala 02 | 74-1A-E3-E3-0C-19 | 172.16.50.203 | AP-TR-2000 | V1.7.7 | 0  |          | Oficinas      |         |
| Sala 03 | 74-1A-E3-E3-4F-C7 | 172.16.50.204 | AP-TR-1300 | V1.7.7 | 0  | 51000    | Oficinas      |         |

TR ACCESS POINTS VISUAL MANAGEMENT AND CONFIGURATION

- ✓ Intuitive and complete system supervising
- ✓ Create device groups
- ✓ Template creation
- ✓ Bulk configuration of the WiFi access points
- ✓ Global firmware upgrade
- ✓ Real-time monitoring
- ✓ Alerts

## EK CLOUD



**Panel**

| Nombre del dispositivo | Tipo    | Número de serie   | Acciones |
|------------------------|---------|-------------------|----------|
| Host 1                 | UC MINI | EK-UCR10000000004 |          |
| Host 2                 | UC MINI | EK-UCR10000000005 |          |
| Host 3                 | UC MINI | EK-UCR10000000005 |          |
| Host 4                 | UC MINI | EK-UCR10000000008 |          |
| Host 5                 | UC MINI | EK-UCR10000000007 |          |
| LAB Ek                 | VM      | EK-UCR10000000999 |          |

- ✓ Remote management of the installation without opening ports on the router
- ✓ Control of multiple installations with a single user account
- ✓ Own cloud server under Ek control
- ✓ Compatible with all models of EK Online controller
- ✓ Simple and intuitive management interface
- ✓ No added costs

**3 YEARS  
FREE  
ACCESS\***

\*For online controllers



# 12

HOTSPOT



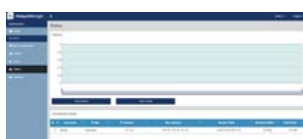
HS BASIC



CM HS



HS RACK



## HOTSPOT by EK

|        |           |                                                                                                              |   |
|--------|-----------|--------------------------------------------------------------------------------------------------------------|---|
| 280025 | HS BASIC  | Professional Hotspot with captive portal + network audit. Up to 50 simultaneous users. Power supply included | 1 |
| 280024 | CM HS     | Professional Hotspot with captive portal + network audit. Compatible with CM Headend                         | 1 |
| 390011 | HS RACK   | Professional Hotspot with captive portal + network audit. 19" rack format.                                   | 1 |
| 390021 | HS RACK + | Professional Hotspot with captive portal + network audit. 19" rack format. For up to 2000 simultaneous users | 1 |
| 280058 | IPMS      | Graphical configuration interface for PMS connection via Char                                                | 1 |
| 311008 | EK SOP    | Servers remote support and commissioning                                                                     | 1 |

## PROFESSIONAL CAPTIVE PORTAL AND WIFI NETWORK AUDIT

The professional Ekselans by ITS HotSpot has been designed for installation in business and hotel environments, as well as in any public WiFi network where user authentication and activity registration are required.

Through a simple configuration, the installer is able to define all the necessary parameters to offer various methods of accreditation in WiFi networks (direct registration, email with verification check, tickets with pre-defined passwords, social networks, ...). Likewise, the system allows to define user profiles for assignment of times and connection speed.

In addition to the captive portal, the HotSpot by EK offers a powerful network audit system that allows analyzing internet consumption statistics by connection and user, as well as registering and storing the activity of the different users connected to the WiFi network (device identification, visited domains, connection times, ...), all in strict compliance with the new regulation

### Captive portal

- Simple configuration of the welcome page
- Various access systems: direct registration, tickets with personalized passwords, social networks (Facebook)
- Possibility of defining fields for the access form (name, nationality, room, email, ...)
- Access functionality with email verification system
- Definition of bandwidth and maximum connection time per session
- Creation of websites whitelists
- Possibility of connection to ticket printer for passwords

### Network audit and activity registration

- Activity log of users connected to the WiFi network
- Internal storage of important information such as devices MAC addresses, visited domains, connection times to each domain,...
- Usage statistics of internet resources per user
- Possibility of defining an external cloud back-up (Dropbox, Google Drive, ...)

### Integration with PMS

- HotSpot integration option with the hotel's PMS through the CHAR system



# 13

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SENSORS, IoT





### LoRa sensors for the SONDEK solution

|        |      |                                                                                                                      |   |
|--------|------|----------------------------------------------------------------------------------------------------------------------|---|
| 420001 | HRD  | LoRa gateway - central IoT node for receiving data from MPD                                                          | 1 |
| 422000 | MPD  | LoRa sensor node with connector for external probes. Temperature, humidity and atmospheric pressure sensor included. | 1 |
| 421000 | STH  | Modular temperature and humidity probe. Includes 1.5m connection cable                                               | 1 |
| 421003 | SCO2 | Modular carbon dioxide (CO2) probe. CO2+Temp+Humid+Pressure. Includes 1.5m connection cable.                         | 1 |
| 421004 | SCO  | Modular carbon monoxide (CO) probe. Includes 1.5m connection cable                                                   | 1 |
| 421005 | SO2  | Modular oxygen (O2) probe. O2+Temp+Pressure. Includes 1.5m connection cable.                                         | 1 |
| 421006 | STC  | Modular contact temperature probe. Includes 1.5m connection cable                                                    | 1 |
| 421007 | CPS  | Protective cover for Sondek outdoor installation                                                                     | 1 |
| 422001 | CPM  | Doors / windows contact                                                                                              | 1 |
| 420002 | MRL  | LoRa repeater module                                                                                                 | 1 |

\* The battery life will vary depending on the added modular sensors.

## SONDEK

### NODO IoT

**SONDEK:** Professional Sensor System for Residential, Industrial, and Tourist Environments.

SONDEK allows for the creation of a technological infrastructure within a building, regardless of its intended purpose, to monitor various environmental and consumption parameters with the aim of improving habitability, energy efficiency, and the well-being of the environment.

**SONDEK** system is composed of various detectors designed to capture and measure a wide range of environmental

parameters: carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxygen (O<sub>2</sub>), temperature, humidity, and atmospheric pressure. Its main function is to collect precise information on these variables and transmit them in real-time using LoRa® technology to different modular nodes (MPDs), which in turn communicate with a central gateway (HDR - IoT Node). It is this IoT Node that securely stores all environmental factors for data analysis, allowing for the identification of patterns and the implementation of preventive or corrective measures, even automatically.

**SONDEK** sensors are designed for easy installation and offer advantages such as automatic linking with the modular node and a self-configuration procedure for measurement transmission cycles. The IoT Node (HDR) stores data locally in real-time, with the option of communication with a cloud system. Additionally, it provides access to city infrastructures (Smart Cities) that have implemented building metadata analysis.

### APPLICATION ENVIRONMENTS



RESIDENTIAL BUILDINGS



HOTELS AND RESORTS



HOSPITALS AND HEALTHCARE SECTOR



FACTORIES AND INDUSTRIAL WAREHOUSES,



SUPERMARKETS



AGRICULTURE



PUBLIC SPACES

### ADVANTAGES OF SONDEK SENSORS

- ✓ LoRa® Technology
- ✓ Low power consumption
- ✓ Long battery life (between 5 and 8 years)
- ✓ High tolerance to interference
- ✓ High reception sensitivity (-136dBm)
- ✓ Long range (up to 20 km maximum)



| WiFi TEMPERATURE CONTROLLERS SONDEK |         |                                                                                                     |      |
|-------------------------------------|---------|-----------------------------------------------------------------------------------------------------|------|
| 428000                              | CP 100W | Temperature controller display with WiFi for cooling/heating systems. Includes 1 probe and 1 relay  | 1/50 |
| 428001                              | CP 200W | Temperature controller display with WiFi for cooling/heating systems. Includes 2 probe and 3 relays | 1/50 |



CP 200W

# SONDEK THERM

SONDEkTHERM WiFi controllers have been specially designed to monitor and manage all types of industrial refrigeration and freezing equipment.

Temperature control systems have a wide range of applications and play a crucial role in various sectors, ensuring the optimal operation of their activities and production processes. These sectors include the food industry, pharmaceuticals, as well as the chemical and petrochemical industries. In each of these, the adaptation of equipment to specific needs is crucial, with refrigeration and/or freezing cycles that cater to each

requirement while optimizing energy consumption and minimizing environmental impact.

SONDEK THERM consists of two compact panel controllers that fit into the standard slots (2.8 cm in height by 7.0 cm in width) of any refrigerator model: shelves, counters, display cases and refrigeration islands, wall and semi-wall showcases, cabinets, and freezing rooms, and even electrical panels.



### CP 100W:

Basic model with 1 sensor and 1 relay



### CP 200W:

High-capacity model with 2 sensors and 3 relays, ideal for situations that require a high capacity for load switching

## APPLICATION ENVIRONMENTS



SUPERMARKETS AND HYPERMARKETS



HOTELS



RESTAURANTS



HOSPITALS



PHARMACEUTICAL INDUSTRY



REFRIGERATED TRANSPORT



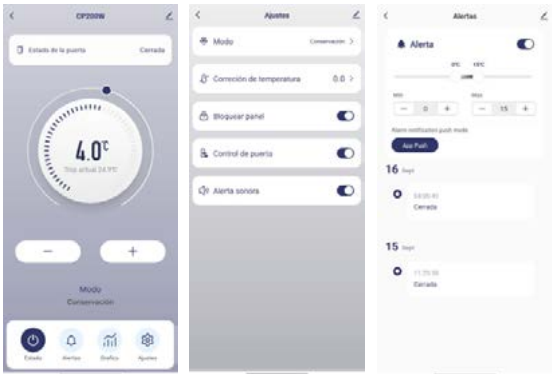
FOOD & BEVERAGE INDUSTRY



CHEMICAL INDUSTRY



Download  
Ek  
SMART





WS CO2 EK



WS HI EK

## SENSORES DE CO2 Y CO SONDEK

|        |                       |                                                                                                                                      |   |
|--------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------|---|
| 421001 | WS CO2 EK<br><b>N</b> | CO2 Sensor (smoke detector). Operates in standalone mode or via WiFi with management through the "EK Smart" app. Includes batteries. | 1 |
| 421002 | WS HI EK<br><b>N</b>  | CO (carbon monoxide) sensor. Operates in standalone mode or via WiFi with management through the "EK Smart" app. Includes batteries. | 1 |

## APPLICATION ENVIRONMENTS



RESIDENTIAL



SUPERMARKETS



HOTELS



RESTAURANTS



HOSPITALS

## FEATURES OF THE CO2 AND CO SENSORS SONDEK

- ✓ Real-time alert notifications via the EkSmart app
- ✓ Standalone operation
- ✓ Easy installation without wiring
- ✓ High precision and reliability

# SONDEK DETECTORS

The **SONDEK DETECTORS** family consists of advanced environmental sensors designed to detect critical threats such as carbon monoxide (CO) and carbon dioxide (CO2).

The **WS CO2 EK** model uses photoelectric technology and self-verification to detect smoke (carbon dioxide).

The **WS HI EK** features a high-precision electrochemical sensor, complemented with temperature compensation technology, for reliable carbon monoxide detection.

Both devices operate with long-lasting batteries (approximately 5 years), require no wiring, and function autonomously or connected to the WiFi network for remote access via the EkSmart mobile app.

Complying with EN14604 and EN50291 certifications, they guarantee the highest quality, reliability, and safety.

A man wearing a blue baseball cap, glasses, and a blue quilted vest over a white shirt is standing in front of a wooden door. He is interacting with a black video door entry system mounted on the door. The system features a small camera lens at the top, a small LCD screen in the middle, and a numeric keypad below it. To the right of the keypad is a small rectangular slot, likely for a mail slot. The background shows the wooden texture of the door and a grey door handle on the left.

# 14

VIDEO DOOR ENTRY &  
ACCESS CONTROL  
SYSTEMS



CCA+



SW CCA+

LCA MINI  
+  
SCA LCALCA MINI installed  
in existing video  
door system.

PE 2B

PE 8B



PCD-E + VE-AI

PD



MON 43V · MON 43W



DPL-4 / DPL-4F

PFA 2420

## ACCESS CONTROL SYSTEM

|          |            |                                                                                                                                                                        |   |
|----------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 370001   | CCA        | Controller unit with AC/DC input power. Door opener AC or DC power supply.                                                                                             | 1 |
| 370005   | CCA +      | Controller unit with AC/DC input power. Door opener AC or DC power supply. Up to 5000 users. SD card backup. New Windows PC software available                         | 1 |
| 370021   | CCA+W<br>N | Controller unit with AC or DC door opener power supply. Up to 5000 users. Windows PC software with entry management through time-based configuration and access cards. | 1 |
| 370022   | UCCA<br>N  | Local control server for multiple CCA+W. Configuration and template upload.                                                                                            | 1 |
| -        | SW CCA+/W  | CCA+/ CCA+W configuration program for PC. Available at <a href="http://www.ek.plus/">www.ek.plus/</a> software                                                         | - |
| 370002   | LCA        | Mifare type RFID card reader (13.56MHz). Power supply from controller unit. IP66 protection grade                                                                      | 1 |
| 370019   | LCA MINI   | Mini RFID card reader type Mifare (13.56 MHz). Power supply from the controller unit. IP 66 protection grade                                                           | 1 |
| 370020   | S LCA      | LCA MINI support                                                                                                                                                       | 1 |
| 371001   | RF KEY     | Mifare type RFID key                                                                                                                                                   | 5 |
| 13/19500 | VICD-30-12 | 12Vdc / 2A power supply for DIN rail                                                                                                                                   | 1 |

## WIRE VIDEO DOOR PHONE SYSTEM FOR BUILDINGS

|        |           |                                                                                                   |     |
|--------|-----------|---------------------------------------------------------------------------------------------------|-----|
| 321009 | PE 2B     | Outdoor panel with 2 buttons. Surface mounting. With protection frame                             | 1   |
| 321010 | PE 4B     | Outdoor panel with 4 buttons. Surface mounting. With protection frame                             | 1   |
| 321011 | PE 6B     | Outdoor panel with 6 buttons. Surface mounting. With protection frame                             | 1   |
| 321012 | PE 8B     | Outdoor panel with 8 buttons. Surface mounting. With protection frame                             | 1   |
| 321008 | PCD-E     | Digital outdoor panel with RFID Mifare access control. Two-wire non-polarized system              | 1   |
| 321015 | PCD-E-B   | Digital outdoor panel with RFID Mifare access control. Two-wire non-polarized system. Black color | 1   |
| 321014 | PD        | Directory panel. Black color                                                                      | 1   |
| 321004 | CE PCD    | Flush box for PCD E or PD                                                                         | 1   |
| 321007 | VE-AI     | Stainless steel protective frame for PCD E outdoor panel or PD                                    | 1   |
| 321005 | VPS       | Plastic protective frame for surface mounted PCD E outdoor panel or PD                            | 1   |
| 371001 | RF KEY    | Mifare type RFID key                                                                              | 5   |
| 323002 | PFA 2420  | 2-wire bus power supply                                                                           | 1   |
| 323003 | DPL-4     | Floor tap for 4 video monitor                                                                     | 1   |
| 323004 | DPL-4F    | End-line tap for 4 video monitors                                                                 | 1   |
| 320003 | MON 43V   | 4,3" indoor colour monitor. Hands-free.                                                           | 1   |
| 320005 | MON 43W   | 4,3" color indoor WiFi monitor. Hands-free                                                        | 1   |
| 320004 | UAD       | Indoor audio unit. Hands-free                                                                     | 1   |
| 323006 | EXT 32    | Extension and regeneration unit. Required for installations with more than 32 addresses/monitors  | 1   |
| 323007 | PFA 2425  | DIN rail supply 24Vdc/2.5A for EXT 32                                                             | 1   |
| 325001 | CVP 2     | 2-wire cable 0.5mm <sup>2</sup> . 250m reel. Floor wiring                                         | 1/4 |
| 325002 | CVP 2-1,5 | 2-wire cable 1.5mm <sup>2</sup> . 200m reel. Trunk distribution / Long distances wiring           | 1/4 |



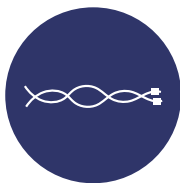
Black Outdoor Panel  
Option  
**PCD-E-B**



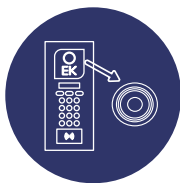
integration with PD  
directory



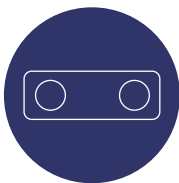
## General features



Non-polarized 2 wires system



Digital outdoor panel in stainless steel with high quality color camera



New Outdoor Panels with Push Buttons



Auto-adjusting light sensor



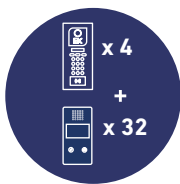
Compatible with outdoor door lock



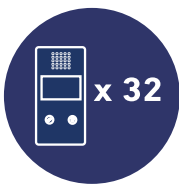
LCD display with simple and intuitive directory



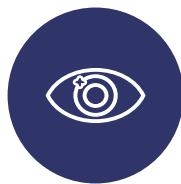
Audio call volume adjustment on monitor



Up to 4 outdoor panels and up to 32 users (64 indoor units max)



Extension Unit for Over 32 Monitors



Monitoring function. Possible to watch the street without prior call



Easy to install and to program



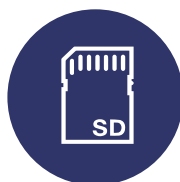
Integrated MIFARE access control



Paralell or series installation option



It can be used as replacement using existing cabling



SD card slot



Additional CCTV cameras option



Additional CCTV cameras option



OUTDOOR PANEL (PCD E) WITH PLASTIC FRAME FOR SURFACE MOUNTING



OUTDOOR PANEL (PCD-E-B) FOR SURFACE MOUNTING



DIRECTORY



HANDS-FREE INDOOR UNIT WITH 4.3" COLOR SCREEN.  
TWO OPTIONS: WITH AND WITHOUT WI-FI CONNECTION FOR CALL ANSWERING WITH A SMARTPHONE.



HANDS-FREE AUDIO INDOOR UNIT

## 2-WIRE SINGLE-FAMILY VIDEO DOOR KITS

|        |               |                                                                                                                                                                                                                                                                                            |   |
|--------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 322003 | KIT HOME      | Single-family kit. Includes outdoor panel for 2 wires installation with Mifare access control. 4.3-inch hands-free color monitor with stand. DIN rail power supply. Expandable up to 4 monitors and 2 outdoor panels.                                                                      | 1 |
| 322004 | KIT HOME WIFI | Single-family WiFi kit. Includes outdoor panel for 2 wires installation with Mifare access control. 4.3-inch hands-free color monitor with stand. Wifi connection for call forwarding and opening via Smartphone. DIN rail power supply. Expandable up to 4 monitors and 2 outdoor panels. | 1 |

## OUTDOOR PANEL WITH 1 BUTTON

|        |        |                                                                      |   |
|--------|--------|----------------------------------------------------------------------|---|
| 321013 | PE 1BM | Outdoor panel with 1 button. Surface mounting. With protection frame | 1 |
|--------|--------|----------------------------------------------------------------------|---|

## DEMO KITS

|        |                   |                                                                              |   |
|--------|-------------------|------------------------------------------------------------------------------|---|
| 324005 | MALETÍN DEMO      | Demo kit briefcase for building installations. Plug & play                   | 1 |
| 324007 | MALETÍN WIFI DEMO | Demo kit briefcase for building installations with WiFi monitor. Plug & play | 1 |

## VIDEOPORTERO RECAMBIOS

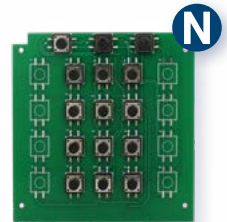
|        |           |                                               |   |
|--------|-----------|-----------------------------------------------|---|
| 325003 | CPL<br>N  | PCD-E housing + Reader + Microphone + Speaker | 1 |
| 325004 | PPP<br>N  | Complete PCD-E circuit. Includes screen       | 1 |
| 325005 | TPE<br>N  | PCD-E Keyboard                                | 1 |
| 325006 | DLP<br>N  | Detector + LEDs PCD-E                         | 1 |
| 325007 | CPC<br>N  | PCD-E Camera                                  | 1 |
| 325008 | FAP<br>N  | PCD-E aluminum front                          | 1 |
| 325009 | FAPN<br>N | PCD-E front black aluminum                    | 1 |



PE 1BM



MALETÍN WIFI DEMO



TPE



CPC

## KIT HOME KIT HOME WIFI



- ✓ Single-Family Video Door Kit
- ✓ Installation with 2 non-polarized wires
- ✓ Outdoor panel with camera, push button, and Mifare access control
- ✓ Hands-free 4.3-inch color monitor with wall-mount support
- ✓ DIN rail installation power supply
- ✓ Expandable up to 4 monitors and 2 outdoor panels
- ✓ Wi-Fi Connection for Call Forwarding and Remote Door Opening via Smartphone using the EK SMART App (KIT HOME WIFI)



Descarga

Ek  
SMART

## GENERAL SALES CONDITIONS

### Prices

- Prices reflected in this price list are recommended retail prices and doesn't include taxes
- The invoicing will be made at the price in force on the day of shipment of the merchandise
- ITS PARTNER (O.B.S.) S.L.U. reserves the right to modify this price list, totally or partially, without prior notice.

### Orders

To place your orders, please send an email to [emanuela.zocchi@ek.plus](mailto:emanuela.zocchi@ek.plus)

### Transport

- The prices are EXW Barcelona, so it doesn't include freight cost.
- On each order, customer should be responsible to organize collection and delivery. Under customer's request, we can organize transport to their premises. This service should be quoted separately and after agreement, organized and invoiced along with other products.
- The transport companies are responsible for possible incidents during the trip (damage or faults). Before signing the delivery note, the consignee must check that there are no faults, and that the goods have been delivered in perfect condition. In the event that the goods are damaged, the customer must indicate it on the delivery note of the transport agency and immediately notify ITS Partner (O.B.S.) S.L.U. within 72 hours of the incident. If no incident is recorded on the delivery note, the responsibility will become solely the recipient.
- After 72 hours from the date of receipt of the goods, no claim will be accepted.

### Warranties and repairs

Ekselans by ITS products are guaranteed for three years, counting from the date of the purchase invoice. This warranty does not cover possible breakdowns or damages caused by misuse or incorrect installation, nor the cases of accidental event or force majeure. The warranty shall not exceed the exchange of the defective part for a new one. The materials that suffer a breakdown can be sent for repair using the form found in the following LINK, being essential to follow the indicated instructions:

[www.ek.plus](http://www.ek.plus), section "Documentation > General Sales Conditions"

### Claims and returns

- We will not accept returns that have not been previously authorized by ITS Partner (O.B.S.) S.L.U.
- Customer is responsible for the return freight cost (unless agreed between the parties). Goods must be sent with a copy of the related purchase invoice. Goods must be in perfect condition and have not undergone any intervention.
- No claims will be accepted after 7 days from receipt of the goods.

### Payment terms

The payment terms will be agreed between the parties.

### Goods ownership

ITS PARTNER (O.B.S.) S.L.U. reserves the ownership of the goods until the total payment of the same by the buyer. The customer must bear the interest and expenses caused by the non-payment within the established deadlines, regardless of other possible legal actions, including the recovery of the goods and compensation for damages.

### Jurisdiction

These general sales conditions shall be governed by Spanish law.

Buyer and seller submit, waiving their own jurisdiction, to the jurisdiction of the Courts and Tribunals of Barcelona.

### Information

- The mere acceptance by the buyer of our invoice or delivery note, implies its explicit conformity to all these conditions of sale.
- Delivery times are given as an indication. Delays in deliveries may in no case justify compensation.
- Unless expressly indicated by the client, ITS PARTNER (O.B.S.) S.L.U. reserves the right to make partial deliveries of an order.

## RMA PROCESS

The **RMA** (Return Merchandise Authorization) is the process that allows us to optimize the deadlines and the quality of service of our technical service. In case of failure of any of the Ekselans by ITS products, the following procedure must be followed:

### Products under warranty

All Ekselans by ITS products have a three-year warranty. For this, it is essential to keep the purchase invoice and fill in the form found on the following website:

**[www.ek.plus](http://www.ek.plus) > section "Documentation > Repairs / RMA"**

Once completed, you must send the form and a purchase invoice copy to the email address [rma@ek.plus](mailto:rma@ek.plus). You will then receive an RMA number and you must ship the goods postage paid to the following address, clearly stating the RMA number outside the package.

#### For urgent repairs:

SERVIÇO TÉCNICO EK PORTUGAL – WISITRON  
Rua José Carlos Ary dos Santos 20  
A das Lebres (Loures)  
2660-173 Santo Antão do Tojal  
PORTUGAL  
Tel. +351 219838700

#### For standard repairs:

EKSELANS by ITS - ITS Partner O.B.S. S.L.U.  
Av. Cerdanyola 79-81 Local C  
08172 Sant Cugat del Vallès  
Barcelona  
ESPAÑA  
Tel: +34 93 583 95 43

### Important:

- Verify that the goods are really damaged or defective. Otherwise, all the costs arising from the intervention and the transport costs will be invoiced to you. The rate applied per labor is equivalent to € 15 for every 30 minutes. If necessary, a repair budget may be requested. In case of not accepting the budget, € 12 will be billed for the time spent.
- Once the process has been completed, the goods will be returned at postage paid. In case the repair cause is beyond our responsibility, or it is a product out of warranty, we will proceed to the billing of the return shipments.
- In the event of product has been purchased through an official distributor, they must contact the same, who will be responsible for processing the repair.
- All our repairs include a one-year warranty.

### Out-of-Warranty Products

In case the product is out of warranty, or the purchase invoice has been lost, you can also send your product to be repaired. In this case please note that the rate applied per labor is equivalent to € 15 for every 30 minutes. To do this, you must fill in the form that you will find on the following website:

**[www.ek.plus](http://www.ek.plus) > section "Documentation > Repairs / RMA"**

Once completed you must send the form to the email address [rma@ek.plus](mailto:rma@ek.plus). Subsequently you will receive an RMA number and must send the goods at postage paid to the following address, clearly stating the RMA number on the outside of the package:

#### For urgent repairs:

SERVIÇO TÉCNICO EK PORTUGAL – WISITRON  
Rua José Carlos Ary dos Santos 20  
A das Lebres (Loures)  
2660-173 Santo Antão do Tojal  
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#### For standard repairs:

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Av. Cerdanyola 79-81 Local C  
08172 Sant Cugat del Vallès  
Barcelona  
ESPAÑA  
Tel: +34 93 583 95 43

If necessary, a repair budget may be requested. In case of not accepting the budget, €12 will be billed for the time spent. Once the repair is made, you will be notified of the amount and will be provided with an account number to make the payment of the same. After receiving the payment, the goods will be sent postage due by the indicated transport agency.



EKSELANS BY ITS



**SEDE CENTRAL**

Av. Cerdanyola 79-81 Local C  
08172 Sant Cugat del Vallès  
Barcelona (Spain)  
Tel: 93 583 95 43  
info@ek.plus

**SEDE MADRID**

Plaza de la República de Ecuador, 2 1º A  
28016 Madrid (Spain)  
info@ek.plus

**DELEGACIÓN CANARIAS**

Calle Invierno 113  
35018 Las Palmas de Gran Canaria (Spain)  
Tel: 928 23 60 40  
almacen.canarias@ek.plus

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