



EKSELANS BY ITS

WIFI ACCESS POINTS SYSTEM



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INDOOR ACCESS POINTS

TR 1300

Reference	TR 1300
Code	331000
Hardware:	
Chipset	Qualcomm IPQ4019+QCA9886+QCA8075
Standards	802.11ac/b/g/n, MIMO technology
DDR3	512MB
Flash	32MB
Frequencies 2.4GHz	2.4GHz - 2.484GHz
Standards 2.4GHz	802.11b/g/n
Frequencies 5GHz	IPQ4019: 5.150GHz-5.320GHz QCA9886: 5.500GHz-5.825GHz
Standards 5GHz	802.11 a/n/ac
Interfaces	1 port RJ45 WAN 10/100 /1000Mbps 1 port RJ45 LAN 10/100 /1000Mbps Reset button
Antennas	Internal antenna MIMO 3dBi
WiFi speed	1300Mbps (400Mbps 2.4GHz + 900Mbps 5GHz)
Estimated number of users	64
RF power	<25dBm
DC power	12V 2A
PoE	48V (IEEE 802.3at)
LED light	Sys. WAN, LAN
Maximum consumption	<24W
Dimensions	198mm x 198mm x 41.02mm
Weight	786.7g
Firmware features	
Operating modes	Wireless AP, Gateway (Dynamic IP / Static IP / PPPoE), WiFi repeater, WISP mode
Wireless functions	Multiple SSID functions: 2.4GHz: 4; 5.8GHz: 4 Supports hidden SSID
	Roaming standards 802.11 k / v / r 5GHz network prioritization
	WiFi Security: Open, WPA, WPA2PSK, TKIPAES, WAP2_EAP, 802.1x
	MAC filter
	Supports Wi-Fi time on / off for energy saving
	Possibility of user isolation
	Adjustable RF power
	Supports maximum limitation of connected users
Networking functionalities	VLAN settings
	Possibility of centralized management and provisioning through EK controllers (UC TRB, UC TR and UC HS)
Device management	Back-up configuration
	Configuration recovery
	Reset / Factory default
	Device reboot
	Password management
	Firmware update
System log	
Protocols	IPv4
Others	
Operating temperature	-30~70°C Humidity: 5%-95%

- IEEE 802.11ac Wave 2
- Transmission capacity 1300Mbps (dual-band)
- MU-MIMO technology for simultaneous communication with multiple devices.
- Up to 8 spatial streams for high concurrency of simultaneous users
- Beamforming technology with wireless transmission beam adaptation
- Fast roaming 802.11k / v / r
- SSID Broadcasting and multiple SSIDs supported
- 5GHz network prioritization for decongestion of the 2.4GHz band
- Possibility of user / device isolation
- Simple programming via multi-language web interface
- Adjustable wireless high power
- 2 GE LAN ports (10/100 / 1000Mbps)
- PoE 802.3at 48Vdc power supply or autonomous with external power supply
- Ease of ceiling or wall installation
- High-quality housing with high heat dissipation. Suitable for any type of environment (-30°C ~ 70°C)
- Possibility of centralized management and provisioning through EK controllers (UC TRB, UC TR and UC HS)
- Access points combinable with EK network hotspot and auditing (CM HS and HS BASIC)



INDOOR ACCESS POINTS

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TR 2200

- IEEE 802.11ac Wave 2
- Transmission capacity 1300Mbps (dual-band)
- MU-MIMO technology for simultaneous communication with multiple devices.
- Up to 8 spatial streams for high concurrency of simultaneous users
- Beamforming technology with wireless transmission beam adaptation
- Fast roaming 802.11k / v / r
- SSID Broadcasting and multiple SSIDs supported
- 5GHz network prioritization for decongestion of the 2.4GHz band
- Possibility of user / device isolation
- Simple programming via multi-language web interface
- Adjustable wireless high power
- 2 GE LAN ports (10/100 / 1000Mbps)
- PoE 802.3at 48Vdc power supply or autonomous with external power supply
- Ease of ceiling or wall installation
- High-quality housing with high heat dissipation. Suitable for any type of environment (-30°C ~ 70°C)
- Possibility of centralized management and provisioning through EK controllers (UC TRB, UC TR and UC HS)
- Access points combinable with EK network hotspot and auditing (CM HS and HS BASIC)



Reference	TR 2200
Code	331001
Hardware:	
Chipset	Qualcomm IPQ4019+QCA9886+QCA8075
Standards	802.11ac/b/g/n, MIMO technology
DDR3	512MB
Flash	32MB
Frequencies 2.4GHz	2.4GHz - 2.484GHz
Standards 2.4GHz	802.11b/g/n
Frequencies 5GHz	IPQ4019: 5.150GHz-5.320GHz QCA9886: 5.500GHz-5.825GHz
Standards 5GHz	802.11 a/n/ac
Interfaces	1 port RJ45 WAN 10/100 /1000Mbps
	1 port RJ45 LAN 10/100 /1000Mbps
	Botón de reset
Antennas	Antena interna MIMO 3dBi
WiFi speed	2200Mbps (400Mbps 2.4GHz + 900Mbps 5G + 900Mbps 5GHz)
Estimated number of users	64
RF power	<25dBm
DC power	12V 2A
PoE	48V (IEEE 802.3at)
LED light	Sys, WAN, LAN
Maximum consumption	<24W
Dimensions	198mm x 198mm x 41.02mm
Weight	786.7g
Firmware features	
Operating modes	Wireless AP, Gateway (Dynamic IP/Static IP/ PPPoE), repetidor WiFi, modo WISP
Wireless functions	Multiple SSID functions: 2.4GHz: 4; 5.8GHz: 4
	Supports hidden SSID
	Roaming standards 802.11 k / v / r
	5GHz network prioritization
	WiFi Security: Open, WPA, WPA2PSK, TKIPAES, WAP2_EAP, 802.1x
	MAC filter
	Supports Wi-Fi time on / off for energy saving
	Possibility of user isolation
	Adjustable RF power
	Supports maximum limitation of connected users
Networking functionalities	VLAN settings
	Posibilidad de gestión y aprovisionamiento centralizado a través de las controladoras EK (UC TRB, UC TR y UC HS)
Device management	Back-up configuration
	Configuration recovery
	Reset / Factory default
	Device reboot
	Password management
	Firmware update
	System log
Programming through web management	
Protocols	IPv4
Otros	
Operating temperature	-30-70°C Humedad: 5%-95%



INDOOR ACCESS POINTS

AP 300LP

- 300 Mbps / 2.4 GHz
- Supports high user density
- Compact design
- Multiple SSIDs
- Large coverage. Range 140-160m (*)
- 1 LAN ports
- PoE 24Vdc power supply or via 12Vdc source
- PoE injector included

REFERENCE	AP 300 LP
Code	330004
Hardware	
Antenna	2 x Omni 5dbi
RF	2T2R, 300 Mbps MIMO
Transmission power	Max. 20 - 23 dBm (IEEE802.11 b/g/n) - 2.4Ghz <i>(EK recommends setting the maximum transmitting power according to the current legislation of each country)</i>
Reset button	Reset and factory settings
Software	
Programming	Network management WEB, TEL-NET
Options	VLAN, QoS, bandwidth control, limitation "broadcast storm",...
Connections	
Ethernet Interface	1 x 10/100 Mbps Ethernet (connectors RJ45) ports
Power Supply	PoE: 24V IEEE 802.3af ; DC12V/1A Connector
Wireless	
Operating mode	AP, Gateway, Repeater
Throughput	IEEE802.11b: 11Mbps IEEE802.11g: 54Mbps IEEE802.11n: 300Mbps
Frequency	2.4GHz-2.4835 GHz
Channel	13. Configurable for various standards
Modulation mode	DSSS and OFDM
Coding	BPSK, QPSK, 16QAM and 64QAM
Encryption	802.11i Security: WEP-64/128, TKIP(WPA-PSK) and AES(WPA2-PSK)
General	
Working temperature	0°C - 55°C
Power consumption	Max 12,5 W
Dimensions	Ø 15,7 x 3,6 cm

(*) The maximum distance will depend on the conditions of use of the AP



INDOOR ACCESS POINTS

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AP 750 NG

- Dual 2.4GHz and 5GHz operation
- 802.11ac compatible
- High speed WiFi (300 + 450 Mbps)
- Operation modes: router, AP and repeater
- Optimal for the residential or SME market
- 2x 10/100 Mbps ethernet ports
- VLAN support for traffic segmentation
- PoE 802.3at (48V) or 12 Vdc power supply



REFERENCE	AP 750 NG
Code	330011
Hardware	
Antenna (Tx Rx, SS)	2'4 GHz: 2x2:2 5GHz: 1x1:1
Transmission power	2'4GHz: 802.11bgn, 20-27 dBmW 5GHz: 802.11n/ac, 17-24 dBmW <i>(EK recommends setting the maximum transmitting power according to the current legislation of each country)</i>
Reset button	Reset and factory settings
Software and programming	
Operating modes	AP, router, Repetidor, link WISP
Configuration	Web, Telnet, Controladora
Options	Segmentación VLAN-SSID, Wlan partition, Preferred 5G, log de actividad, FIT AP, modulación de potencia y sensibilidad, seguridad IP (filtros URL, IP, etc.), DDNS
Interfaces	
Ethernet	2x 10/100 Mbps
Modulation Speed	802.11bgn: 11, 54, 300 Mbps 802.11ac: 450 Mbps
Bandwidth	802.11bgn: 20, 40 MHz 802.11ac: 20, 40, 80 MHz
Canalization	2'4 GHz: 1..13 5 GHz: U-NII 36..48 U-NII 2A 52..68 U-NII 2C 96..140 U-NII 3 149..165 (Bands of selectable channels according to regulation)
Modulation	DSSS: DBPSK, DQPSK, CCK OFDM: BPSK, QPSK, 16QAM..256QAM
Encryption	WPA2-Personal (TKIP/AES128)
General	
Power supply	PoE 802.3at (48V) 12 Vdc / 2A
Working temperature	0°C – 55°C
Power consumption	máx. 30 W (PoE)
Dimensions	188 x 188 x 50 mm



INDOOR ACCESS POINTS

AP 1200 W2

REFERENCE	AP 1200 W2
Code	330012
Hardware	
Antenna (Tx Rx, SS)	2'4 GHz: 2x2:2 5GHz: 2x2:2
Transmission power	2'4GHz: 802.11bgn, 20-30 dBmW 5GHz: 802.11an/ac, 18-28 dBmW (EK recommends setting the maximum transmitting power according to the current legislation of each country)
Reset button	Reset and factory settings
Software and programming	
Operating modes	AP, router, Repetidor, link WISP
Configuration	Web, Telnet, Controladora
Options	Segmentation VLAN-SSID, Wlan partition, Preferred 5G, log de actividad, FIT AP, Power modulation and sensitivity, IP security (filters URL, IP, etc.), DDNS
Interfaces	
Ethernet	2x 10/100/1000 Mbps
Modulation Speed	802.11bgn: 11, 54, 300 Mbps 802.11ac: 900 Mbps
Bandwidth	802.11bgn: 20, 40 MHz 802.11ac: 20, 40, 80 MHz
Canalization	2'4 GHz: 1..13 5 GHz: U-NII 36..48 U-NII 2A 52..68 U-NII 2C 96..140 U-NII 3 149..165 (Bands of selectable channels according to regulation)
Modulation	DSSS: DBPSK, DQPSK, CCK OFDM: BPSK, QPSK, 16QAM..256QAM
Encryption	WPA2-Personal (TKIP/AES128)
General	
Power supply	PoE 802.3at (48V) 12 Vdc / 2A
Working temperature	0°C - 55°C
Power consumption	max. 30 W (PoE)
Dimensions	188 x 188 x 50 mm

- Dual 2.4GHz and 5GHz operation
- 802.11ac Wave2 (MU-MIMO) compliant
- High speed WiFi (300 + 900 Mbps)
- Operation modes: router, AP and repeater
- Suitable for high user density
- Adjustable sensitivity and power
- 2x 10/100/1000 Mbps ethernet ports
- VLAN support for traffic segmentation



AP 1200 W2

OUTDOOR CPE / AP POINT TO POINT

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CPE 300-24V2

- 300 Mbps / 2.4 GHz
- Supports high user density
- Multiple SSIDs
- Long-range. Range 1km (*)
- AP / Router / Repeater / WISP mode
- PoE 24Vdc power supply
- **PACKAGING in kit of 2 units + 2 PoE injectors**



REFERENCE	CPE 300-24LP
Code	333010
Hardware	
Antenna	1 x 8 dBi
Transmission power	Max. 20 dBm (IEEE802.11 b/g/n) - 2.4Ghz (EK recommends setting the maximum transmitting power according to the current legislation of each country)
Half-power beam width	H: 60° V: 5°
Reset button	Reset and factory settings
Software	
Programming	Network management WEB, TELNET
Options	VLAN, QoS, bandwidth control, limitation "broadcast storm",...
Connections	
Ethernet Interface	2 x 10 /100 Mbps Ethernet ports
Power Supply	PoE: 24V, 12Vdc/1A Connector
Wireless	
Operating mode	AP, Gateway, Repeater, WISP
Throughput 2.4 GHz	IEEE802.11B: 11MBPS IEEE802.11G: 54MBPS IEEE802.11N: 300MBPS
Frequency	2.4 GHz
Channel	1 - 13 2.4 GHz
Modulation mode	OFDM, DSSS
Coding	BPSK, QPSK, 16QAM and 64QAM / DBPSK, DQPSK, CCK
Encryption	802.11i Security: WEP-64/128, TKIP(WPA-PSK) and AES(W-PA2-PSK)
General	
Working temperature	-40°C - 55°C
Power consumption	Max. 20 W
Dimensions	16 x 9 x 6 cm

(*) The maximum distance will depend on the conditions of use of the AP



OUTDOOR CPE / AP POINT TO POINT

CPE 300

- Directive CPE for point-to-point installations
- 300 Mbps / 5.8 GHz
- Supports high user density
- Multiple SSIDs
- Long range 4km (*)
- 2 LAN ports
- AP / Router / Repeater / WISP mode
- PoE 24Vdc power supply or via 12Vdc source
- PoE injector included

REFERENCE	CPE 300
Code	333001
Hardware	
Antenna	1 x 15dbi
Transmission power	Max. 25 dBm (IEEE802.11 n) - 5.8Ghz (EK recommends setting the maximum transmitting power according to the current legislation of each country)
Half-power beam width	H: 70° V: 15°
Reset button	Reset and factory settings
Software	
Programming	Network management WEB, TELNET
Options	VLAN, QoS, bandwidth control, limitation "broadcast storm", ...
Connections	
Ethernet Interface	2 x 10 /100 Mbps Ethernet (connectors RJ45) ports
Power Supply	PoE: 24V, 12Vdc/1A Connector
Wireless	
Operating mode	AP, Gateway, Repeater, WISP
Throughput	IEEE802.11b: 11Mbps IEEE802.11g: 54Mbps IEEE802.11n: 300Mbps
Frequency	5.180 GHz - 5.825 GHz
Channel	36 - 165
Modulation mode	OFDM
Coding	BPSK, QPSK, 16QAM and 64QAM
Encryption	802.11i Security: WEP-64/128, TKIP(WPA-PSK) and AES(WPA2-PSK)
General	
Working temperature	0°C - 55°C
Power consumption	Max. 15 W
Dimensions	25 x 9 x 3,2 cm

(*) The maximum distance will depend on the conditions of use of the AP



OMNIDIRECTIONAL OUTDOOR CPE / AP

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CPE 1200-OLP

- High speed 802.11AC 1200 Mbps
- 2.4 GHz and 5.8 GHz frequency bands
- Supports high user density
- Multiple SSIDs
- Long-range. Range 400m (*)
- AP / Router / Repeater / WISP mode
- PoE 48Vdc power supply



REFERENCE	CPE 1200-OLP
Code	333009
Hardware	
Antenna	4 x Omni 5 dBi
Transmission power	Max. 24 - 27 dBm (IEEE802.11 b/g/n) - 2.4Ghz Max. 21 -24 dBm (IEEE802.11 n/ ac) - 5.8Ghz (EK recommends setting the maximum transmitting power according to the current legislation of each country)
Reset button	Reset and factory settings
Software	
Programming	Network management WEB, TELNET
Options	VLAN, QoS, bandwidth control, limitation "broadcast storm", ...
Connections	
Ethernet Interface	2 x 10 /100 / 1000 Mbps Ethernet ports
Power Supply	PoE: 48V, 12Vdc/1A Connector
Wireless	
Operating mode	AP, Gateway, Repeater, WISP
Throughput 2.4 GHz	IEEE802.11B: 11MBPS IEEE802.11G: 54MBPS IEEE802.11N: 300MBPS
Throughput 5.8 GHz	IEEE802.11ac: 900Mbps
Frequency	2.4 GHz 5.180 GHz - 5.825 GHz
Channel	1 - 13 for 2.4 GHz 36 - 165 for 5.8 GHz
Modulation mode	OFDM, DSSS
Coding	BPSK, QPSK, 16QAM and 64QAM / DBPSK, DQPSK, CCK
Encryption	802.11i Security: WEP-64/128, TKIP(WPA-PSK) and AES(W-PA2-PSK)
General	
Working temperature	-40°C - 70°C
Power consumption	Max. 10 W
Dimensions	31,5 x 14,5 x 8 cm

(*) The maximum distance will depend on the conditions of use of the AP

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OMNIDIRECTIONAL OUTDOOR CPE / AP

CPE 1200-O

- High-speed 802.11AC 1200 Mbps
- 2.4 GHz and 5.8 GHz frequency bands
- Omnidirectional coverage with antennas ANT24-12 and ANT58-12
- Supports high density of users
- Multiple SSID
- Long-range 400m (*)
- AP Mode / Router / Repeater / WISP
- PoE 48Vdc power supply

REFERENCE	CPE 1200-O
Code	333002
Hardware	
Antenna	6 PCS SMA Connector
Transmission power	Max. 26 - 29 dBm (IEEE802.11 b/g/n) - 2.4Ghz Max. 20 -23 dBm (IEEE802.11 n/ac) - 5.8Ghz (EK recommends setting the maximum transmitting power according to the current legislation of each country)
Reset button	Reset and factory settings
Software	
Programming	Network management WEB, TELNET
Options	VLAN, QoS, bandwidth control, limitation "broadcast storm",...
Connections	
Ethernet Interface	1 x 10 /100 / 1000 Mbps Ethernet ports
Power Supply	PoE: 48V, 12Vdc/1A Connector
Wireless	
Operating mode	AP, Gateway, Repeater, WISP
Throughput 2.4 GHz	IEEE802.11B: 11MBPS IEEE802.11G: 54MBPS IEEE802.11N: 300MBPS
Throughput 5,8 GHz	IEEE802.11ac: 1200Mbps
Frequency	2.4 GHz 5.180 GHz - 5.825 GHz
Channel	1 - 13 for 2.4 GHz 36 - 165 for 5.8 GHz
Modulation mode	OFDM, DSSS
Coding	BPSK, QPSK, 16QAM and 64QAM / DBPSK, DQPSK, CCK
Encryption	802.11i Security: WEP-64/128, TKIP(WPA-PSK) and AES(WPA2-PSK)
General	
Working temperature	0°C - 55°C
Power consumption	Max. 20 W
Dimensions	21,5 x 27,6 x 8 cm

(*) The maximum distance will depend on the conditions of use of the AP

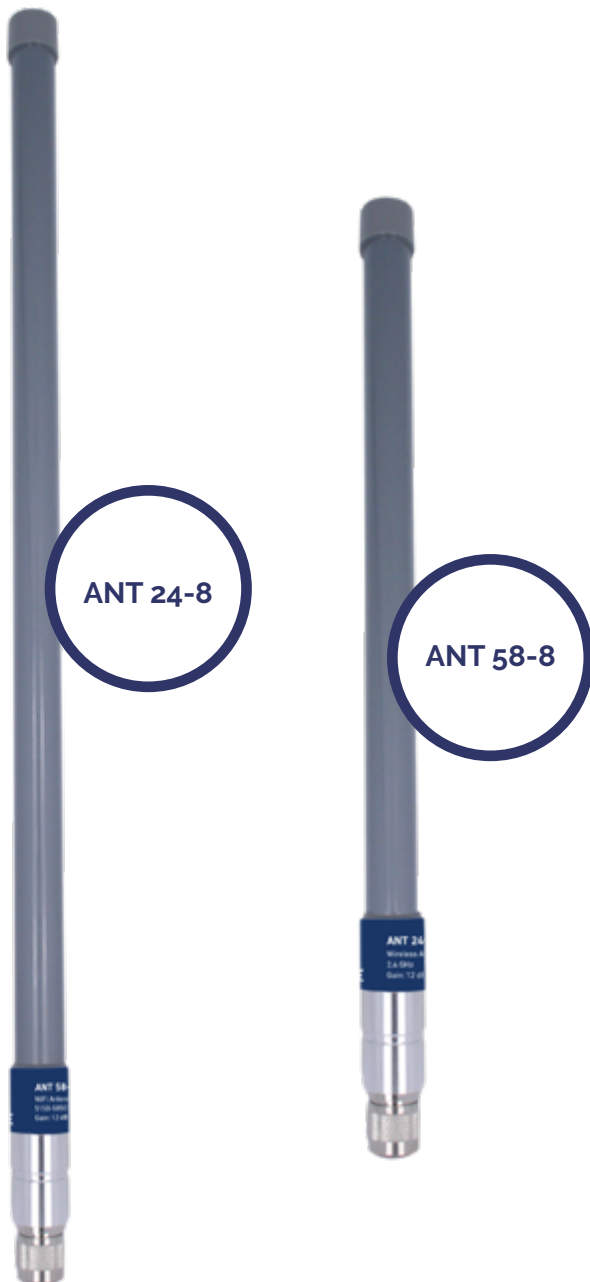




OMNIDIRECTIONAL OUTDOOR CPE / AP

ANT 24-8 / ANT 58-8

- Wireless antennas
- ANT 24-8 2.4 GHz
- ANT 58-8 5 GHz



REFERENCE		ANT 24-8
Code		333008
Frequency	GHz	2.4
Gain	dBi	8
Half-power beam width	°	H:360 / V:6
Connector	type	N Female
Size	mm	550x24
Weight	Kg	0.53

REFERENCIA		ANT 58-8
Code		333007
Frequency	GHz	5
Gain	dBi	8
Half-power beam width	°	H:360 / V:6
Connector	type	N Female
Size	mm	360x20
Weight	Kg	0.28

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PoE INJECTORS

POE 24 / POE 48

- Injectors 10/100/1000 Mbps
- PoE 24 24 Vdc / 2 A
- PoE 48: 48 Vdc / 2 A

REFERENCE		POE 24
Code		332001
Nominal Voltage	V	100/240
Nominal Frequency	Hz	50 - 60
Input Current	A	1
Power Output Voltage	Vdc	24

REFERENCE		POE 48
Code		332002
Nominal Voltage	Vac	240 ± 10%
Nominal Frequency	Hz	50 - 60
Input Current	A	2
Inrush Current	A	30
AC Leakage Current	mA	3.5
Power Output Voltage	Vdc	48



CONTROLLERS

CAP 1

- Management and control up to 50 / 150 AP
- Real-time installation monitoring
- 4 high-speed ethernet ports 10 /100 / 1000 Mbps



REFERENCE	CAP 1
Code	335001
Hardware	
Ethernet Interface	4 x 10 / 100 / 1000 Mbps Ethernet ports 1 x 10 / 100 /1000 Mbps Ethernet Uplink port
Power Supply	DC12V / 1.5A
Software	
Programming	Web interface
General	
Working temperature	-20°C / 45°C
Size (L x W x H)	225 mm x 123 mm x 35 mm
Power consumption	Max. 5 W



REFERENCE	SWP 5
Code	334001
PoE Power	72 W
PoE Standard	IEEE 802.3, 802.3u, 802.3x, 802.3af, 802.3at
Ethernet Interface	4 x 10 / 100 / 1000 Mbps puertos Ethernet 1 x 10 / 100 / 1000 Mbps puerto Ethernet Uplink 1 x 1000 puerto SFP Friba
Back bandwidth	1 Gbps
MAC Address table	2000
Power Supply	DC48V / 1.5A
Working temperature	0°C / 55°C
Size (L x W x H)	185 mm x 96 mm x 24 mm
Power consumption	Max. 72 W

REFERENCE	SWP 9
Code	334002
PoE Power	120 W
PoE Standard	IEEE 802.3, 802.3u, 802.3x, 802.3af, 802.3at
Ethernet Interface	8 x 10 / 100 / 1000 Mbps puertos Ethernet 1 x 10 / 100 / 1000 Mbps puerto Ethernet Uplink 1 x 1000 puerto SFP Friba
Back bandwidth	1.8 Gbps
MAC Address table	2000
Power Supply	DC48V / 1.5A
Working temperature	0°C / 55°C
Size (L x W x H)	250 mm x 122 mm x 35 mm
Power consumption	Max. 120 W

REFERENCE	SWP 26
Code	334003
PoE Power	450 W
PoE Standard	IEEE 802.3, 802.3u, 802.3x, 802.3af, 802.3at
Ethernet Interface	24 x 10 / 100 / 1000 Mbps puertos Ethernet 2 x 10 / 100 / 1000 Mbps puerto Ethernet Uplink 2 x 1000 puerto SFP Friba
Back bandwidth	12.8 Gbps
MAC Address table	8000
Power Supply	100 - 240 V
Working temperature	0°C / 55°C
Size (L x W x H)	440 mm x 284 mm x 44 mm
Power consumption	Max. 450 W

PoE SWITCHES

- 4 / 8 / 24 high-speed ethernet ports 10 / 100 / 1000
- 2 - 4 uplink ports (Ethernet and SFP Fiber 1GB)
- PoE ports 48 Vdc
- Total power 72W / 120W / 450W
- Plug & Play





EKSELANS BY ITS

EKSELANS by ITS

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