# GPON PoE OPTICAL NETWORK TERMINAL

## ONT 4 POE · ONT 4 POE CP

GPON byEk

EKSELANS BY ITS

- √ GPON Optical Network Terminal and gateway for SOHO and residential pursposes
- √ 4 x Self-adaptative 10/100/1000Base-T Ethernet ports with 48V PoE power supply
- √ ONT 4 POE CP, also includes 2 RJ 11 analog telephone ports (POTS)
- √ Compatible with ITU-T G.984.x standard. Meets all requirements for creating ultra high speed FTTH/FTTR networks
- √ 2,5Gbps maximum downlink / 1,25 Gbps uplink speed
- √ Allows access to ultra-broadband services
- √ Local and remote management. OMCI, Web, CLI and SNMP
- √ Compatible and interoperable with OLTs Ekselans by ITS


ONT 4 POE


ONT 4 POE CP

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EKSELANS BY ITS

# TECHNICAL TABLE

| REFERENCIA | ONT 4 POE | ONT 4 POE CP |
|---|---|---|
| Code | 310033 | 310047 |
| GPON specifications | | |
| Transfer speed | Dowstream: 2.488Gbps / Upstream: 1.244Gbps | Dowstream: 2.488Gbps / Upstream: 1.244Gbps |
| Connector | SC/APC | SC/APC |
| Optical | ITU-T G.984.2 Clase B+ | ITU-T G.984.2 Clase B+ |
| Class B+ Standards | ITU-T G.984.x (G.984.5 support)<br>FCC 47 CFR Part 15, Class B<br>FDA 21 CFR 1040.10 & 1040.11, Class I<br>IEEE 802.3 Ethernet<br>802.1 q/p VLANs | ITU-T G.984.x (G.984.5 support)<br>FCC 47 CFR Part 15, Class B<br>FDA 21 CFR 1040.10 & 1040.11, Class I<br>IEEE 802.3 Ethernet<br>802.1 q/p VLANs |
| Optical wavelength and power | Downlink: Wavelength: 1490nm<br>Sensitivity: -28dBm<br>Saturation: -8dBm<br>Uplink: Wavelength: 1310nm<br>Transmission power: 0.5 ~ 5dBm | Downlink: Wavelength: 1490nm<br>Sensitivity: -28dBm<br>Saturation: -8dBm<br>Uplink: Wavelength: 1310nm<br>Transmission power: 0.5 ~ 5dBm |
| Fiber mode | G.652 Monomodo | G.652 Monomodo |
| Others | 32 T-CONTs 256 GEM<br>Flexible mapping between GEM ports and T-CONTs<br>Upstream and downstream FEC<br>Automatic discovery of SN and password activation<br>AES-128 encription with keys generation and conmutation<br>802.1p service upstream<br>FEC (Forward Error Correction) | 32 T-CONTs 256 GEM<br>Flexible mapping between GEM ports and T-CONTs<br>Upstream and downstream FEC<br>Automatic discovery of SN and password activation<br>AES-128 encription with keys generation and conmutation<br>802.1p service upstream<br>FEC (Forward Error Correction) |
| Ethernet specifications | | |
| Standards | IEEE802.3 / IEEE802.3au / IEEE802.3x | IEEE802.3 / IEEE802.3au / IEEE802.3x |
| Interfaces | 4 ports 10/100/1000BASE-T. Connector RJ45<br>Auto negotiation<br>Auto MDI/MDIX<br>100m de distance<br>48V PoE power supply<br>Maximum total power 60W (maximum 30w per port) | 4 ports 10/100/1000BASE-T. Connector RJ45<br>Auto negotiation<br>Auto MDI/MDIX<br>100m de distance<br>48V PoE power supply<br>Maximum total power 60W (maximum 30w per port) |
| Router functionality (switching & routing) | Bridging & Switching ( 802.1d / 802.1q)<br>8 traffic classes (802.1p)<br>802.3n flow control<br>VLAN* tagging and filtering<br>VLAN stacking ( Q-in-Q )<br>IGMP multicast for IPTV<br>IGMP snooping<br>RSTP<br>IPHOST<br>SSH<br>QOSSP, WRR, SP+WRR<br>Port Mirror | Bridging & Switching ( 802.1d / 802.1q)<br>8 traffic classes (802.1p)<br>802.3n flow control<br>VLAN* tagging and filtering<br>VLAN stacking ( Q-in-Q )<br>IGMP multicast for IPTV<br>IGMP snooping<br>RSTP<br>IPHOST<br>SSH<br>QOSSP, WRR, SP+WRR<br>Port Mirror |
| POTS Telephony specifications | | |
| REN | - | Max 5REN |
| Connector | - | 2 ports RJ11 |
| Call Voltage | - | 65V RMS |
| Protocols | - | SIP / MGCP<br>G.711 (A- & u-), G.729, G.726 codec<br>Llamada DTMF<br>DTMF Calling<br>Echo suppression support, VAD, CNI<br>Call identification, hold call, forward call, 3-users call T.30 & T.38 FAX |
| General specifications | | |
| Working temperature | -30~55°C | -30~55°C |
| Power supply | 48V dc / 1.35A (64.8W) | 48V dc / 1.35A (64.8W) |
| Dimensions | 150 x 115 x 30 mm | 150 x 115 x 30 mm |
| Weight | 500g (aprox.) | 500g (aprox.) |

* The ONT supports a maximum of 8 VLANs, 7 for general purpose and 1 for management. The 8 VLANs can be assigned to one or more of the Ethernet ports.
* The Ethernet ports of the ONT can be configured in access mode, trunk mode and hybrid mode (access, trunk and hybrid).
* It is recommended not to assign the management VLAN to any of the Ethernet ports to maintain the option of web access to the ONT.

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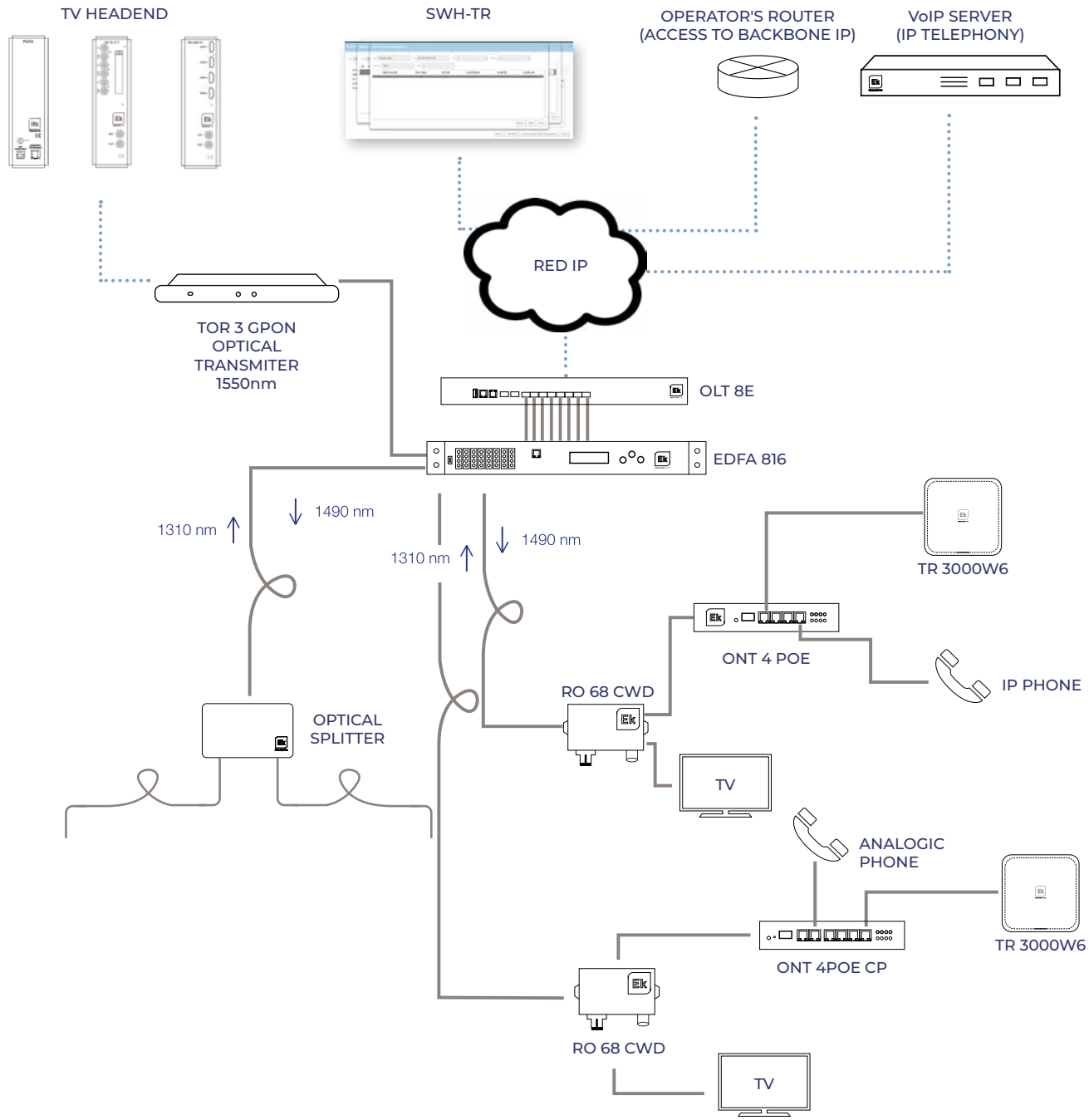
## APPLICATION EXAMPLE

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