EKSELANS BY ITS

GPON PoE OPTICAL NETWORK TERMINAL

ONT 4 POE IN

GPON by Ek

- √ GPON network terminal specifically designed for industrial environments and outdoor installations that demands high mechanical and electrical specifications
- √ Aluminum metallic box format with epoxy painting, with reinforced mounting bracket for electrical panels and outdoor distribution cabinets installation
- √ Specific design to withstand a operating temperature environment up to 65°C
- √ 1 SC/APC connector
- √ 4 RJ45 10/100/1000Mbps self-adaptive ports with 48Vdc PoE power supply (max 60W)
- √ Front panel with 12 status LEDs and reset button
- √ Internal power supply in metallic box format, IP67 waterproof, input range 100-305Vac 47-63Hz, 96W power, typical efficiency 90% and CE, BIS, CCC, RCM, KCC, ENEC, EAC, UKCA certificates and UL
- √ ONT compatible and interoperable with OLTs Ekselans by ITS
- √ ONT developed according to IT-TG.984 standards and fully compatible and manageable from the SWH-TR-V, real-time monitoring software of GPON equipment for public lighting network
- √ ONT with encryption support, individualized for each unit installed in a FTTH network, of received data from the OLT using Advanced Encryption Standard 128 (AES128) algorithm
- √ SFU (Switch Fabric Unit) type ONT with IP address management assigning option for monitoring in third-party tools
- √ Final product designed and assembled in Spain

ONT 4 POE IN

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EKSELANS BY ITS

TECHNICAL TABLE

REFERENCE	ONT 4 POE IN
Code	310037
GPON specifications	
Transfer speed	Dowstream: 2.488Gbps / Upstream: 1.244Gbps
Connector	SC/APC
Optical	ITU-T G.984.2 Clase B+
Class B+ Standards	ITU-T G.984.x (G.984.5 support) FCC 47 CFR Part 15, Class B FDA 21 CFR 1040.10 & 1040.11, Class I IEEE 802.3 Ethernet 802.1 q/p VLANs
Optical wavelength and power	Downlink:Wavelength: 1490nm Sensitivity: -28dBm Saturation: -8dBm Uplink: Wavelength: 1310nm Transmission power: 0.5 ~ 5dBm
Fiber mode	G.652 Monomodo
Others	32 T-CONTs 256 GEM Flexible mapping between GEM ports and T-CONTs Upstream and downstream FEC Automatic discovery of SN and password activation AES-128 encription with keys generation and conmutation 802.1p service upstream FEC (Forward Error Correction)
Ethernet specifications	
Standards	IEEE802.3 / IEEE802.3au / IEEE802.3x
Interfaces	4 ports 10/100/1000BASE-T port. RJ45 Connector Auto negotiation Auto MDI/MDIX 100m de distance 48V PoE power supply Maximum total power 60W (maximum 30w per port).
Router functionality (switching & routing)	Bridging & Switching (802.1d / 802.1q) 8 traffic classes (802.1p) 802.3n flow control VLAN* tagging and filtering VLAN stacking (Q-in-Q) IGMP multicast for IPTV IGMP snooping RSTP IPHOST SSH QOSSP, WRR, SP+WRR Port Mirror
General specifications	
Working temperature	-30°C / 65°C
Power supply	100V-305Vac (64,8W)
Dimensiones	222 x 56 x 200 mm
Peso	2000g (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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