
GPON / FTTH OPTICAL NETWORK TERMINAL

ONT 4AC



- √ GPON Optical Network Unit for SOHO and residential purposes
- √ 4 x Autoadaptive 10/100/1000Base-T Ethernet ports
- √ WIFI 3x3 11b/g/n 2,4 GHz y 3x3 11n/ac 5,8 GHz
- √ 2 x POTS telephony port
- √ 1 USB port
- √ Compatible with ITU-T G.984.x standard. Meets all requirements for creating ultra high speed FTTH networks
- √ 2,5Gbps maximum downlink / 1,25 Gbps uplink speed
- √ Allows access to ultra-broadband services: internet, VoIP and IPTV
- √ Local and remote management. OMCI, Web, CLI and SNMPCompatible and interoperable with the Ekselans by ITS OLTs and other main brands in the market



EKSELANS BY ITS



ONT 4AC



TECHNICAL TABLES

REFERENCE	ONT 4 AC
Code	310017
GPON specifications	
Transfer speed	Dowstream: 2.488Gbps / Upstream: 1.244Gbps
Connector	SC/APC
Optical	ITU-T G.984.2 Clase 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 (Forward Error Correction) Automatic discovery of SN and password activation AES-128 encryption 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
Router functionality (switching & routing)	Bridging & Switching (802.1d / 802.1q) 8 clases de tráfico (802.1p) Control de flujos 802.3n Etiquetado y filtrado de VLAN* VLAN stacking (Q-in-Q) IGMP multicast para video IPTV / IGMP snooping RSTP / IPHOST / SSH QOSSP, WRR, SP+WRR Port Mirror
WiFi specifications	
Standard	IEEE 802.11b/g/n/ac
Frequency	2.4 GHz / 300Mbps & 5.8 GHz 867Mbps
Antenna	2T2R 5dBi
EIRP	Max 25dBm
Others	Up to 4 possible SSID's per band Up to 64 simultaneous connections WEP, WPA-PSK, WPA2-PSK (AES, TKIP) Security MAC filtering
POTS Telephony specifications	
REN	Max 5REN
Connector	2 ports RJ11
Call Voltage	65V RMS
Protocols	SIP / MGCP G.711 (A- & u-), G.729, G.726 codec Llamada DTMF DTMF Calling Echo suppression support, VAD, CNI Call identification, hold call, forward call, 3-users call T.30 & T.38 FAX
USB	
Funtion mode	Host / device
Current	Max 1A
General specifications	
Working temperature	-5~45°C
Voltage	12V DC1.5A max
Dimensions	244 x 161 x 41 mm
Weight	500g (aprox.)

* The ONT supports a maximum of 8 VLANs, 7 for general purpose and 1 for management. The 7 general purpose VLANs can be assigned to any of the ONT physical interfaces (4 Ethernet ports, 8 SSIDs and the VOIP interface for the two POT ports) that are available on the ONT. The physical interfaces of the ONT operate in access mode, therefore they can only carry untagged traffic from a VLAN. A VLAN can be assigned to one or more physical interfaces at a time.

* The ONT has a special option, vlan binding, which allows one of the Ethernet ports to be configured in trunk mode to be able to output tagged traffic from several VLANs at the same time. VLANs configured on this port cannot be used on another interface.

APPLICATION EXAMPLE

