OPTICAL CONCENTRATOR STANDALONE GPON LD3016

Product Type	equipment
Description	The OLT (Optical Line Terminal) is an equipment used on FTTx networks as subscriber hub. The OLT LD3016 is is compatible with the GPON standard (ITU-T G.984.1), works with a speed of 2.5 Gbps downstream and 1.25 Gbps upstream. This equipment has the Standalone format (Pizzabox) and supports up to 2048 ONT in a radius of 20 Km (physical) or 60 Km (logical).
General Characteristics	The OLT LD3016 has the following interfaces: • 16 GPON ports compatible with ITU-T G.984 (SFP); • 4 ports of uplink 10 GE (SFP+); • 4 ports of uplink 1 GE (RJ45); • 2 Slots to fonts AC/DC (Redundancy); • 168 Gbps switching capacity.
GPON	• Supports ITU-T G.984.4 for ONT interface management and control (OMCI); • Supports ITU-T G.984.3 amd2; • Supports NSR e SR DBA (G.984.3); • Remote ONT management; • Discovery and Automatic ranging of the ONT; • Able to monitor ONT (pm-profile) traffic and GPON link (optical power, distance, connection); • Up to 128 users per GPON interface; • Speed of 2.5 Gbps downstream and 1.25 Gbps upstream; • 20 Km of transmission range (60 Km of logical range); • Transmission wave-length: 1490 nm; • Recepcion wave-length: 1310 nm; • Total uplink capacity: 44 GE.
Management	• Serial/Telnet (CLI); • SNMP v1/v2/v3; • Autentication RADIUS/TACACS; • SSH; • Syslog (Remoto, volatile, non-volatile).
Layer 2	• Up to 16K MAC adress; • Double IEEE 802.1Q stacking;

- Spanning tree (PVRSTP, MSTP, STP/PVSTP+);
- ERPS - G.8032 / Y.7137;
- Jumbo Frames up to 9216 bytes;
- Supports up to 4096 VLANs;
- Link Aggregation (Static and LACP);
- Standard Ethernet Bridging;
- Port/Subnet VLAN;
- FEC - Forward Error Correction;
- VLAN stacking/translation;
- IEEE 802.3ac - VLAN Tagging;
- IEEE 802.1Q - Virtual LANs with Port Based VLANs;
- IEEE 802.1p - Prioritization of Traffic at the Data-Link Level;
- IEEE 802.3x Flow Control;
- Q-in-Q support;
- Port Mirroring;
- Broadcast Storm filtering;
- Multicast Strom filtering;
- MAC Static Filter.

Layer 3

- Static routing IPv4 and IPV6 (Dual Stack).

Qos

- Traffic scheduling (SP, WRR e DRR);
- Support for CoS with priority WRED, WRR e DSCP/802.1p;
- 8 rows per door;
- Conditional fee limitation (Traffic Shaping).

Multicast

- IGMPv1/v2/v3 Snooping;
- IGMPv1/v2 Proxy;
- MLD snooping, MLD proxy;
- Multicast Vlan Registration (MVR).

Security

- Authentication based on MAC / port 802.1x;
- Storm Control for unknow packages of broadcast, multicast and unicast;
- DoS Protection;
- Out-of-Band management;
- IP Source Guard and Secure Shell (SSH);
- RADIUS/Tacacs+;
- Martian Filter;
- DAI.

Constructive Characteristic

	Width	Length	Heigth
Dimensions	440mm	300mm	44mm

	Min	Máx	Note
Operating Temperature	-20	60	°C
Storage Temperature	-40	80	°C
Operating Relative Humidity	5%	90%	Non-Condensing
Energy Comsumption		50	Watts
Power Supply	Redundant in load balancing. Options: AC full range (100 -240V, 50 / 60Hz) or DC 48 / 60V		

MTBF		
Temp.	MTBF (Hour)	MTBF (Years)
25ºC	518.463,00	59,19
40º C	264.465,00	30,19
MTBF AC POWER SUPPLY		
Temp.	MTBF (Hour)	MTBF (Years)
25ºC	1.233.332,09	140,79
40º C	675.246,68	77,08
MTBF DC POWER SUPPLY		
Temp.	MTBF (Hour)	MTBF (Years)
25ºC	1.959.301,00	223,66
40º C	1.064.924,00	121,57

- Hot-swappable Power Supply;
- Indicative LEDs;
- RoHS Compliant.

Certifications

- Anatel
- CE (European Certification)

Related Products

35510449 - POWER SUPPLY AC FOR GPON STANDALONE OPTICAL CONCENTRATOR LD3008/LD3016
35510450 - POWER SUPPLY DC FOR FOR GPON STANDALONE OPTICAL CONCENTRATOR LD3008/LD3016

Compatibility

- ONU580
- GPON OPTICAL MODEM ONT100
- GPON OPTICAL MODEM ONT 1102W
- GPON OPTICAL MODEM LD322-42W

- GPON OPTICAL MODEM FK-ONT-G420W/AC S2
- GPON OPTICAL MODEM 630-10B
- GPON OPTICAL MODEM 640-10B
- GPON OPTICAL MODEM 423-41W/AC
- GPON OPTICAL MODEM LD420-10R
- GPON OPTICAL MODEM LD421-21W
- GPON OPTICAL MODEM LD421-21WV

Warranty

- One-year warranty.
- Software Technical Validity: 365 days.

Warranty coverage and technical support service are conditional on the exclusive use of GPON Furukawa family equipment (OLTs, ONUs, Power Supplies, Transceivers, ...).

Codification