



CONCENTRADOR OPTICO STANDALONE GPON LD3008

Product Type equipment

The OLT (Optical Line Terminal) is an equipment used on FTTx networks as subscriber hub. The OLT LD3008 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 1024 ONT in a radius of 20 km (physical) or 60 km (logical).

General The OLT LD3008 has the following interfaces:

Characteristics

- 8 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);
- 128 Gbps switching capacity and 95 Mpps throughput.

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;
- Automatic discovery and 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.

Regarding the ONTs reception optical signal, we ensure the measurement precise values that are within the limits of equipment operation.

Therefore, when the reception signal is outside the range -8dBm ~ -27dBm we recommend you check the passive network and the use of measuring tools (e.g. power meter) for technical validation.

Management

- Serial/Telnet (CLI);
- SNMP v1/v2/v3;
- Autentication RADIUS/TACACS;
- SSH;
- Syslog (Remoto, volatie, non-volatile).

Layer 2

- Up to 16K MAC Address;
- 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/Protocol-based VLAN;
- VLAN stacking/translation;
- FEC - Forward Error Correction;
- 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;
- DHCP Relay Agent (Option 82);
- Access Control List (ACL's);
- Q-in-Q support;
- Port Mirroring;
- Broadcast Storm filtering;
- Multicast Storm filtering;
- Ethernet Access List;
- MAC Address Snooping;
- MAC Address Anti Spoofing;
- MAC Static Filter.

Layer 3

- IP Anti Spoofing;
- IP Address Filtering;
- IP Access List;
- 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

Dimensions	Width		Length	Heigth
	440 mm		300 mm	44 mm
	Min	Max	Note	
Operating Temperature	-20	60	°C	
Storage Temperature	-40	80	°C	
Operating Relative Humidity	5%	90%	Non-condensing	
Energy consumption		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)
25°C	564.334,00	64,42
40° C	289.389,00	33,04
MTBF AC POWER SUPPLY		
Temp.	MTBF (Hour)	MTBF (Years)
25°C	1.233.332,09	140,79
40° C	675.246,68	77,08
MTBF DC POWER SUPPLY		
Temp.	MTBF (Hour)	MTBF (Years)
25°C	1.959.301,00	223,66
40° C	1.064.924,00	121,57

- Hot-swappable fonts;
- Indicative LEDs;
- RoHS Compliant.

The power supply complies with UL 60950, CE, NEBS, EU ROHS and EMC EN 55022 Class B standards

Certifications

- Anatel
- FCC Class A
- VCCI Class A
- CISPR Class A

- CE Mark (EN50081-1, EN55022 Class A, EN50082-1, IEC 1000-4-2/3/4/6, EN60555-2 Class A, EN60555-3)
- CSA/NRTL (UL1950, CSA 22.2.950), TUV/GS (EN60950), CB

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
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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](#)