



GPON OLT STANDALONE OPTICAL CONCENTRATOR LW3008C

Product Type	Laserway Equipment
Description	The OLT (Optical Line Terminal) is an equipment used in Passive Optical Local Area Networks (PON LAN), as an optical switch with GPON ports. The LW3008C works accordingly to the GPON (ITU-T G.984.x) standard, with speed of 2.5 Gbps of downstream and 1.25 Gbps of upstream and downstream. It is an standalone equipment which supports up to 1024 ONTs in a 20 km radius (physical) or 60 km (Logical).
General Characteristics	Configurable to operate in redundancy mode between GPON ports in the same OLT (Redundancy type B considering up to 32 ONTs per redundant port). The LW3008C has the following interfaces:

- 8 GPON Ports compatible with ITU-T G.984 (SFP);
- 4 uplink Ports 1/10 GE SFP/SFP+;
- 2 Slots for AC/DC Power Sources (Redundant)*;
- 120 Gbps switching capacity.

GPON

- Supports ITU-T G.984.4 for ONT Management Control Interface (OMCI);
- ONT remote management;
- ONT automatic discovery and ranging;
- Supports NSR and SR DBA (G.984.3);
- Up to 1000 T-CONTs and 4000 GEM Ports;
- Up to 128 ONTs per GPON interface;
- Capable of monitoring ONU traffic (pm-profile) and GPON link parameters (optical power, distance, connection);
- Transmission speed of 2.5Gbps downstream and 1.25Gbps upstream;
- Transmission radius up to 20km (Physical) and 60Km (Logical);
- Transmission wavelength: 1490nm;
- Reception wavelength: 1310nm;
- Type B redundancy.

Layer 2

- Standard Ethernet Bridging;
- Até 64K endereços MACs;
- VLAN stacking/translation;
- Link Aggregation (802.3ad);
- IEEE 802.3ac - VLAN Tagging;
- IEEE 802.1S - Multiple Spanning Tree;

- IEEE 802.1W - Rapid Spanning Tree;
- IEEE 802.1D - Spanning Tree;
- IEEE 802.1Q - Virtual LANs with Port Based VLANs;
- Up to 4096 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 Storm filtering;
- Rate Limiting (In/Out);
- MAC Static Filter;
- Jumbo Frames até 12288 bytes;
- Access Control List L2 (ACLs Support).
- Port/Subnet/Protocol-based VLAN;

Layer 3

- IPv4 / IPv6 routing;
- Static routing;
- Open Shortest Path First (OSPF) v2, v3;
- Border Gateway Protocol (BGP) v4;
- Virtual Router Redundancy Protocol (VRRP);
- Access Control List L3.

Qos

- Traffic scheduling (SPQ, WRR);
- Up to 8 COS per port.
- Conditional rate limitation;
- Access control list: MAC addresses, EtherType, IP SA / DA, TCP / UDP

Multicast

- IGMPv1/v2/v3;
- IGMP Fast-Leave;
- IGMP Snooping;
- IGMP Proxy;
- IGMP Static Join;
- PIM-SM, SSM;
- MLD Snooping;
- Multicast Vlan Registration (MVR).

Management

- Serial/Telnet/SSH (CLI);
- SNMP;
- DHCP server, client and relay with option 66 and 82;
- Single IP management;
- Syslog;
- Link Layer Discovery Protocol (LLDP).

- LLDP-MED
- RMON

Security

- Authentication based on MAC for native VLAN;
- Authentication 802.1x (Port-Based or MAC-Based);
- Storm Control for broadcast, multicast and DLF;
- Unknown multicast and unicast traffic block;
- Out-of-Band and In-Band management;
- Anti attack for DDOS, TCP-SYN-flood, UDP-flood, ARP-flood;
- Secure Shell (SSH) v1/v2.
- IP Source Guard

Constructive Characteristic

	Width	Height	Depth
Dimensions [mm]	440	44	300

Constructive Characteristic			
	Min	Máx	Obs
Operating Temperature	-20	60	°C
Storage Temperature	-40	80	°C
Relative Operational Humidity	0%	90%	Non-condensing
Power Consumption		55	Watts
Power Supply	Redundant. Options: full range AC (100-240V, 50/60Hz) or -48/60V DC		

MTBF		
Temp.	MTBF (Hour)	MTBF (Years)
25°C	483.993,00	55,25
40° C	258.013,00	29,45

- Hot-swappable Power Supplies;
- LEDs indicative;
- RoHS Compliant;

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

Certifications

- Anatel
- NOM
- 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/LW3008C/LD3016
- **35510450** - POWER SUPPLY DC FOR FOR GPON STANDALONE OPTICAL CONCENTRATOR LD3008/LW3008C/LD3016

Included Accessories Included items:

- 1 Serial Cable (DB9 – RJ45).
- Rack-mount tabs
- Guarantee certificate
- Installation Guide.

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, ...).

[Part Numbers](#)