



## GPON OLT STANDALONE OPTICAL CONCENTRATOR LW3008C



<b>Product Type</b>	Laserway Equipment
<b>Description</b>	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).
<b>General Characteristics</b>	<p>The LW3008C has the following interfaces:</p> <ul style="list-style-type: none"> <li>• 8 GPON Ports compatible with ITU-T G.984 (SFP);</li> <li>• 4 uplink Ports 1/10 GE SFP/SFP+;</li> <li>• 2 Slots for AC/DC Power Sources (Redundant)*;</li> <li>• 120 Gbps switching capacity.</li> </ul>
<b>GPON</b>	<ul style="list-style-type: none"> <li>• Supports ITU-T G.984.4 for ONT Management Control Interface (OMCI);</li> <li>• ONT remote management;</li> <li>• ONT automatic discovery and ranging;</li> <li>• Supports NSR and SR DBA (G.984.3);</li> <li>• Up to 1000 T-CONTs and 4000 GEM Ports;</li> <li>• Up to 128 ONTs per GPON interface;</li> <li>• Capable of monitoring ONU traffic (pm-profile) and GPON link parameters (optical power, distance, connection);</li> <li>• Transmission speed of 2.5Gbps downstream and 1.25Gbps upstream;</li> <li>• Transmission radius up to 20km (Physical) and 60Km (Logical);</li> <li>• Transmission wavelength: 1490nm;</li> <li>• Reception wavelength: 1310nm.</li> </ul>
<b>Layer 2</b>	<ul style="list-style-type: none"> <li>• Standard Ethernet Bridging;</li> <li>• Até 64K endereços MACs;</li> <li>• VLAN stacking/translation;</li> <li>• Link Aggregation (802.3ad);</li> <li>• IEEE 802.3ac - VLAN Tagging;</li> <li>• IEEE 802.1S - Multiple Spanning Tree;</li> <li>• IEEE 802.1W - Rapid Spanning Tree;</li> <li>• IEEE 802.1D - Spanning Tree;</li> <li>• IEEE 802.1Q - Virtual LANs with Port Based VLANs;</li> </ul>

- 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).

### Layer 3

- IPv4 / IPv6 routing;
- Static routing;
- Routing Information Protocol (RIP) v1,v2 y RIPng;
- Open Shortest Path First (OSPF) v2, v3;
- Border Gateway Protocol (BGP) v4;
- Virtual Router Redundancy Protocol (VRRP).

### Qos

- Traffic scheduling (SPQ, WRR);
- Up to 8 COS per port.

### Multicast

- IGMPv1/v2/v3;
- IGMP Snooping;
- Multicast Vlan Registration (MVR).

### Management

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

### Security

- Authentication based on MAC for native VLAN;
- Storm Control for broadcast, multicast and DLF;
- Unknown multicast and unicast traffic block;
- Out-of-Band management;
- Secure Shell (SSH) v1/v2.

	Width	Height	Depth
--	-------	--------	-------

**Constructive Characteristic**

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;

**Warranty**

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

In order to guarantee the proper system operation, the equipment compatibility is only ensured with Furukawa's GPON OLTs. All technical support activities by Furukawa are conditioned to this observance.

**Included Accessories Included items:**

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

**Note**

<sup>1</sup> Power Supply not included.

**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

[Part Numbers](#)