



OPTICAL CHASSIS LIGHTDRIVE GPON CONCENTRATOR LD3032



Product Type	Equipment GPON FBS
Description	The OLT (Optical Line Terminal) LD3032 is an equipment used in FTTx networks (Fiber To The X) as subscriber hub. Its function is to distribute access to each user of the network and perform management tasks, such as access control, bandwidth management, provision of services, etc. Chassis with 2RU height (Rack Units).

General

Characteristics

- 2 slots for service modules:
 - Total of 32 ports, considering 16 GPON interfaces per module;
 - Total capacity up to 128 users in each GPON interface;
 - Up to 4,096 users per chassis;
 - Allows redundancy between GPON ports of the same service module or different service modules (Type B redundancy).
- 2 slots for control and management module (switching):
 - Each module features:
 - 4 uplink 10 GE ports (SFP+);
 - 1 MGMT port (RJ45);
 - 1 alarm port (RJ45);
 - 1 Console port (RJ45);
 - 1 microSD port;
 - Total uplink capacity: 40 GE;
 - Possibility of installing two switching modules to operate in redundancy;
 - 320 Gbps switching capacity.
 - Hot-Swappable Power sources and Fans;
 - LEDs for alarm indication.

GPON

- OLT GPON compliant with ITU-T G.984;
- supports NSR and SR DBA (G.984.3)
- Remote ONT management;
- Automatic ranging of ONT;
- Multiple T-CONTs per ONT;
- Speed from 2.5 Gbps downstream to 1.25 Gbps upstream;
- 20 km of transmission range (60 km of logical range);

- Transmission Wavelength: 1490 nm;
- Receiving wavelength: 1310 nm.

TRANSCEIVER SFP CLASS B+ 2.5GBPS LR 1490NM SC-UPC W/ DDM (20KM) - Cod: 35510197

- Optical transmission power: 1.5 ~ 5.0 dBm
- Potência óptica de recepção: -28 dBm

TRANSCEIVER SFP CLASS C+ 2.5GBPS LR 1490NM SC-UPC (20KM) - Cod: 35510275

- Optical transmission power: 3 ~ 7.0 dBm
- Optical reception power: -32 dBm

Management

- Serial/Telnet (CLI);
- SNMP v1/v2/v3;
- SSH;
- RMON;
- DHCP server, client e relay com opção 82;
- Single IP management;
- Syslog;
- Link Layer Discovery Protocol (LLDP).

Layer 2

- Standard Ethernet Bridging;
- Up to 64K MACs addresses;
- Up to 4K VLANs, 802.1q;
- Port/Subnet/Protocol-based VLAN;
- VLAN stacking/translation;
- Spanning Tree (STP, RSTP e MSTP);
- Link Aggregation (802.3ad).
- Jumbo frame with size up to 9K;

Layer 3

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

Qos

- Traffic scheduling (SP, WRR e DRR);
- 8 rows per port;
- Conditional Band Limiting;
- Bandwidth management per port;
- COS, DSCP/TOS marking/remarking;
- Advanced traffic management.
- Queue mapping accordingly to ingress/egress ports, MAC, 802.1q, 802.1p, ToS/DSCP, IP SA/DA, TCP/UDP;
- Access Control List based on ports, MAC address, EtherType, IP SA/DA, Multicast IP address, TCP/UDP;

Multicast

- IGMP v1/v2/v3;
- PIM-SM, SSM;
- IGMP Snooping;
- IGMP Proxy;
- IGMP Static Join;
- Multicast Vlan Registration (MVR).

Security

- Broadcast Storm Control;
- Unknown multicast/unicast traffic blocking;
- DoS Protection;
- Out-of-Band Management;
- IP Source Guard;
- Secure Shell (SSH) v1/v2.

Constructive Characteristic

Dimensions LxWxD	443 x 88 x 290	mm
Temperature of operation	0 ~ 50	°C
Temperature of storage	-40 ~ 80	°C
Relative humidity of operation	0% ~ 90%	Non-condensing
Voltage	-48 VDC	Input
Power consumption (Máx)	206	W
Power Supply	2 DC sources	with redundancy

MTBF - OPTICAL CONCENTRATOR CHASSIS LIGHTDRIVE GPON LD3032		
Temp.	MTBF (Hour)	MTBF (Years)
25°C	632.266,00	72,18
40° C	300.122,00	34,26
MTBF - SIU CHASSIS LIGHTDRIVE GPON LD3032		
Temp.	MTBF (Hour)	MTBF (Years)
25°C	541.552,00	61,82

40° C	306.336,00	34,97
MTBF - SFU CHASSIS LIGHTDRIVE GPON LD3032		
Temp.	MTBF (Hour)	MTBF (Years)
25°C	452.505,00	51,66
40° C	298.436,00	34,07
MTBF - PSU CHASSIS LIGHTDRIVE GPON LD3032		
Temp.	MTBF (Hour)	MTBF (Years)
25°C	569.067,00	64,96
40° C	555.071,00	63,36

Included Accessories Included items with DC Power Supply:

- 1 DC Power Cord;
- 1 Serial Cable (DB9 – RJ45).

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 ONTs. All technical support activities by Furukawa are conditioned to this observance.

Note

35510901 - 16 PORTS SERVICE MODULE FOR CHASSIS GPON SFP GPON LIGHTDRIVE LD3032;
 35510902 - BLIND PANEL - SERVICE MODULE FOR CHASSIS LIGHTDRIVE GPON LD3032;
 35510903 - SWITCH AND MANAGEMENT MODULE FOR CHASSIS LIGHTDRIVE GPON LD3032;
 35510904 - CEGO PANEL - SWITCH MODULE AND MANAGEMENT FOR CHASSI LIGHTDRIVE GPON LD3032;
 35510905 - POWER SUPPLY DC FOR CHASSI LIGHTDRIVE GPON LD3032;
 35510906 - BLIND PANEL - DC SOURCE FOR CHASSIS LIGHTDRIVE GPON LD3032.

[Codification](#)