



OPTICAL CONCENTRATOR CHASSIS GPON LD3032

Description	The OLT (Optical Line Terminal) LD3032 is an equipment used in FTTx networks (Fiber To The X). 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).
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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 considering up to 32 ONTs per redundant port).
- 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;
 - 238 Mpps Throughput capacity.
- Hot-Swappable GPON Modules, Uplink / Switch Modules, 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;
- Supports ITU-T G.984.4 for ONT interface management and control (OMCI);
- 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.

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;
- Routing Table:
 - 12K - IPv4
 - 6K - 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

- Authentication 802.1x (Port-Based or MAC-Based);
- 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 GPON LD3032		
Temp.	MTBF (Hour)	MTBF (Years)
25°C	632.266,00	72,18
40° C	300.122,00	34,26
MTBF - SIU CHASSIS GPON LD3032		
Temp.	MTBF (Hour)	MTBF (Years)
25°C	541.552,00	61,82
40° C	306.336,00	34,97
MTBF - SFU CHASSIS GPON LD3032		
Temp.	MTBF (Hour)	MTBF (Years)
25°C	452.505,00	51,66
40° C	298.436,00	34,07
MTBF - PSU CHASSIS GPON LD3032		
Temp.	MTBF (Hour)	MTBF (Years)
25°C	569.067,00	64,96
40° C	555.071,00	63,36

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

Included Accessories

- Guarantee certificate;
- Installation guide;
- Serial access cable;
- Blind panels.

Compatibility

- 35510197 - MODULO SFP GPON CLASSE B+ 2.5GBPS LR 1490NM SC-UPC (20KM)
- 35510275 - TRANSCEIVER SFP GPON 2.5GBPS C+ LR 1 490 NM SC-UPC (SM 20KM)
- 35510521 - MODULO SFP GPON CLASSE C++ 2.5GBPS LR 1490NM SC-UPC (20KM)
- 35510267 - TRANSCEIVER UPLINK SFP 1GE SX 850 NM LC-UPC (MM 550M)
- 35510269 - TRANSCEIVER UPLINK SFP 1GE LX 1 310 NM LC-UPC (SM 20KM)
- 35510270 - TRANSCEIVER UPLINK SFP 1GE LX 1 310 NM LC-UPC (SM 40KM)
- 35510291 - TRANSCEIVER UPLINK SFP 1GE LX 1 310 NM LC-UPC (SM 10KM)
- 35510492 - MÓDULO SFP+ 10GE SR 850NM (300M)
- 35510271 - MÓDULO SFP+ 10GE LR 1310NM (10KM)
- 35510494 - MÓDULO SFP+ 10GE ER 1550NM (40KM)
- 35510495 - MÓDULO SFP+ 10GE ZR 1550NM (80KM)

Note

The following modules are sold separately:

- **35510901** - 16 PORTS SERVICE MODULE FOR CHASSIS GPON SFP GPON LD3032;
- **35510903** - SWITCH AND MANAGEMENT MODULE FOR CHASSIS GPON LD3032;
- **35510905** - POWER SUPPLY DC FOR CHASSI GPON LD3032 (Accompanies DC power cable);

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](#)