



OPTICAL CONCENTRATOR CHASSIS GPON LD3032



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| 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 | <ul style="list-style-type: none"> • Configurable to operate in redundancy mode between GPON ports of the same service module or through different service modules in the same OLT (Type B redundancy considering up to 32 ONTs per redundant port); • 2 slots for service modules: <ul style="list-style-type: none"> • 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): <ul style="list-style-type: none"> • Each module features: <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • 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.

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

- 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

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|--------------------------------|----------------|-----------------|
| 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 |

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 ODULO 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](#)