EDL-G08o
8-Port GPON OLT, Outdoor

INTRODUCTION

Electroline is proud to introduce the EDL-G08o, 8-Port high-performance ruggedized outdoor GPON OLT. The EDL-G08o includes a preamplifier, EDFA module, an OLT module and optical splitter. It is an optical node device that organically combines a CATV optical amplifier module and OLT module. Its flexible modular design is intended for deployment in ground enclosures, corridors, poles and more, simplifying network design and reducing engineering costs. The EDL-G08o provides multiple management modes, ensuring total ease of operation and maintenance, thus, reducing management efforts. It offers stable and reliable network performance, enabling seamless communication and data transmission, enhancing business efficiency and user experience.

This EDL-G08o GPON OLT adheres to all GPON standards. It meets the IP65 dust & water proof metal case and natural heat dissipation. It has 8 GPON ports with SFP slots, physical interface and a maximum splitting ratio of 1:128. The PON port specification includes a transmission distance of 20KM, upstream speed of 1.244Gbps, downstream speed of 2.488Gbps, working TX wavelengths of 1490nm and 1310nm RX, SC/UPC connectors, and 9/125m single-mode fiber. It supports PON module levels of Class B+, C, C+, C++, and C+++.

It also has 4 uplink ports in total, including 2x SFP (Gigabit each), and 2x SFP+ (10 Gigabit each). The management ports consist of 1x 10/100/1000BASE-T out-band port, and 1x CONSOLE port. The backplane bandwidth is 104Gbps, and the port forwarding rate is 65.472Mbps.

FEATURES

Designed for outdoor applications

- Supports deployment in ground enclosures, corridors, poles and more.
- P65 dust & water proof metal case,
- The operating temperature is -40 to +70 degrees to meet the needs of the most extreme outdoor environment.

Robust Security Protection

- Supports uplink redundancy protection including LACP, STP, RSTP, and MSTP protocols.
- Allows flexible configuration of packet filtering with ACL.
- Supports TYPE-B protection.

Cost-Effective Solution

- Significantly reduces investment in trunk fibres, pipeline engineering, and outdoor facilities.
- Lowers both, capital and operating expenditures.
- Build-in EDFA, supports Tri-network convergence.
- Installed directly outdoors, reducing the need for indoor equipment rooms.

Impressive Technical Specifications

- 8 PON ports with a 1:128 splitting ratio capability.
- Equipped with various uplink ports for different bandwidth requirements.
- Backplane bandwidth of 104Gbps and high port forwarding rate.
- Supports dual AC power supply for redundancy.
- Offers multiple management methods such as EMS, WEB, SNMP, Telnet, CLI, and SSH v2.
- Port status monitoring and configuration management, online ONT configuration, user, and alarm management.
- Supports rich Layer 2 switching functions with 32K MAC addresses and 4096 VLANs, including port VLANs, VLAN tagging/untagging, VLAN transparent transmission, VLAN translation, and QinQ.
- Supports Layer 3 routing functions like ARP proxy, 4096 hardware host routes, 512 hardware subnet routes. Also supports Radius, Tacacs+, IP source protection, static routing, dynamic routing RIP v1/v2, RIPng, and OSPF v2/v3. Additionally, it supports IPv6-related functions such as NDP, IPv6 Ping, IPv6 Telnet, and IPv6 routing.
- EDFA supports the standard CATV 1550nm operating wavelength, with high received optical power [-3dBm~+10dBm (ACC Mode) / -6dBm-+10dBm (APC Mode) and transmitted optical power (13 dBm~ 22dBm).

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