



Carrier Grade: Beyond Triple Play

Benefits

Chassis Design for Easy Maintenance and High Scalability

ZyXEL OLT-2300 is a chassis-based Optical Line Terminal system with highly scalable GE-PON ports and uplink ports. The OLT-2300 can terminate up to 512 subscribers with up to 1:32 split and utilize optics for fiber loop distances up to 20 km.

The OLT-2300 Series consists of one OLT-2300M (chassis cabinet), one OFC-2300 (FAN module), one OPA-2300 (DC power module), one OMC-2301 (management card) and up to sixteen OLC-2301HA-12 (line cards).

Redundancy Design and Hot Swappable for Non-Stop Services

The OLT-2300 is managed through a centralized mechanism with optional redundancy. Robust power redundancy ensures stable services to subscribers, while the hot-swappable function allows FTTx network maintenance and extension to be performed without service interruption. With the advanced design, subscribers can be served from sub racks of the chassis easily and economically.

Authentication and Encryption for Security

802.1x port authentication can recognize the ONU which doesn't register and reject the service requirement. It can secure the access services in your network. AES-128bit encryption for both downstream and upstream can secure your data transmission.

Flexible Management Ways for Centralized Management

The OLT-2300 supports an out band management port which enables the configuration of management. The management activities can be done via web GUI, CLI, SNMP. In addition, firmware upgrade can be done via FTP.

Alarm/Status Surveillance and Dying Gasp Support

One "Alarm" port can connect to Alarm/Status surveillance for reporting of relevant events/conditions, which occur in the GE-PON network. Dying gasp messages are transmitted from ONU to OLT when an unrecoverable remote failure occurs.

- Fully IEEE 802.3ah Compliance
- Dynamic Bandwidth Allocation
- IEEE 802.1x Port Authentication
- IEEE 802.1Q VLAN
- IEEE 802.1p QoS
- Remote Management
- Hot Swappable
- Power Redundancy



GE-PON Optical Line
Terminal - Chassis Type

OLT-2300

Specifications

System Specifications

- Fully compliant with IEEE 802.3ah
- OAM (Operation, Administration, Maintenance)
 - Auto discovery
 - Remote loopback test
 - Discovery state and normal state
 - OAMPDUs (OAM Protocol Data Units)
- LLID assigned dynamically
- IEEE 802.1D
- IEEE 802.1Q
- IEEE 802.1P
- IGMP v.2
- IGMP proxy and snooping
- IEEE 802.1x
- ICMP (Internet control Message Protocol) supporting
- Remote management
- Performance Management
- Alarm/Status Surveillance
- LED indication

Hardware Specifications

OLT-2300M

- 18-slot rack mountable enclosure, 19" main chassis
- 1 backplane
- 1 slot for dual power redundancy

- 1 slot for management card
- 16 slots for GEAPON termination cards
- 1 slot for fan tray

OLC-2301HA-12

- Hot swappable GEAPON line card
- 1 combo copper/SFP (1000 Mbps) port for uplink
- 1 PON port
- 20 km reach distance

OMC-2301

- 1 10/100 Ethernet port
- 1 min-RJ11 console port
- 1 DB9 alarm port

OPA-2300

- Dual power card for power redundancy
- DC -48 V

OFC-2300

- Slide-in tray module
- 8 fans

OLC-2301HA-12

- Dimensions: 132 (W) x 219.1 (D) x 23 (H) mm
- Weight: 0.24 kg

OMC-2301

- Dimensions: 132 (W) x 219.1 (D) x 23 (H) mm
- Weight: 0.26 kg

OPA-2300

- Dimensions: 132 (W) x 232.4 (D) x 23 (H) mm
- Weight: 0.20 kg

OFC-2300

- Dimensions: 432.7 (W) x 230.5 (D) x 44.45 (H) mm
- Weight: 1.16 kg

Power Requirements

- Power Supply: -48 VDC

Environmental Specifications

- Temperature: 0°C ~ 50°C
- Humidity: 5% ~ 95% (non-condensing)

Certification

- CE
- CSA 60950
- FCC part 15 Class A
- VCCI Class A

Physical Specifications

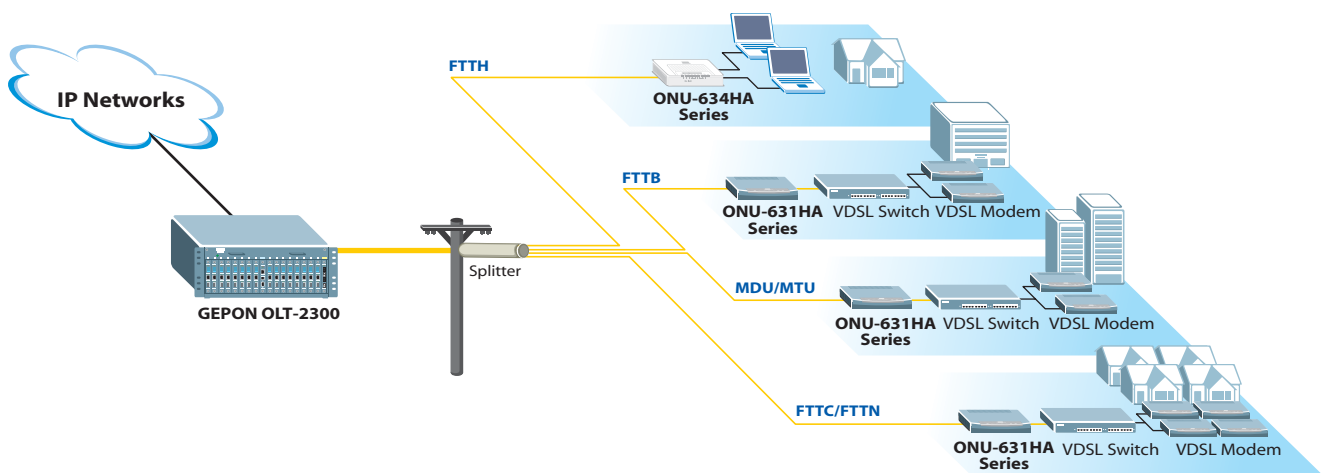
OLT-2300

- Dimensions: 435.7 (W) x 191.85 (D) x 232 (H) mm
- Weight: 9.04 kg (fullest)

OLT-2300M

- Dimensions: 435.7 (W) x 191.85 (D) x 232 (H) mm
- Weight: 3.58 kg

Application Diagram



For more product information, visit us on the web www.ZyXEL.com



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