OLT 8610+ Series

Passive Optical Line Terminal

- Compact 1U OLT supports up to 2/4/8 GE PON ports & power redundant
- Full compliance with IEEE 802.3ah specification & OAM function
- Advanced traffics management for Classification, Policing, Marking, Scheduling, Shaping, and Buffer Management
- Hardware and/or software based Dynamic Bandwidth Allocation (DBA)
- Advanced L2 features & Quality of Service (QoS) support
- IGMP multicast snooping (v1 & v2)
- Support Console/ Telnet/ NMS management interface for ease of operation and maintenance
- Maximum Frame size up to 9K bytes
- Support Flow Control, Auto-Cross over for MDI/MDIX on TP port

Thanks to the increasing popularity of Video-on-Demand (VoD), VoIP and increased IPTV deployment worldwide, the eagerness for bandwidth drives the continuous growth in user bandwidth demands. The ultimate goal of fiber reaching all the way to customer premises to perform FTTH, FTTB, FTTP and FTTC solution is Passive Optical Network technology. Gigabit Ethernet Passive Optical Network (GEPON) access technology defined by IEEE 802.3ah will certainly sustain to provide with up to 1.25Gbps data rate to residential and business customers.

TAINET's OLT 8610+, the Optical Line Terminal (OLT) provides cost-effective solution with 2/4/8 PON links in the compact size box. Together with TAINET's ONU (Optical Network Unit) series, each PON link can deliver 1.25Gbps shared bandwidth to up to 64 ONUs within 20Km radius range. Altogether GEPON Series is able to serve maximum 512 subscribers. Modularized design with hot-swappable function is more scalable and lower entry level for operator to provide triple play services to customer.

With inborn superiority on OLT 8610+, uplink Gigabit Ethernet port of each PON link can be delivered either individually and transparently, or combined and aggregated the traffic with advanced L2/L3 switching functionality in each PON module. To guarantee and ensure the performance of data payload, the dynamic bandwidth allocation (DBA) and advanced QOS by Service Level Agreement (SLA) are accurately controlled and configured via system.

TAINET GEPON series product with the simple, scalable, and capable characteristics are able to deliver bundled voice, data and video services to an end-user over a single network, and appear to be the best candidate and choice for your next generation access network.

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OLT 8610+ – Optical Line Terminal

- OLT 8610+/2P: 2 PON, 2*Gigabit Ethernet+ 2*Optical Ethernet
- OLT 8610+/4P: 4 PON, 4*Gigabit Ethernet+ 4*Optical Ethernet
- OLT 8610+/8P: 8 PON, 8*Gigabit Ethernet+ 8*Optical Ethernet

System Feature

- Architecture:
  - SFP slot design for different requirements
  - Redundant power modules (OLT8610+/8P)
- PON port:
  - Maximum reach up to 20Km
  - Tx: 1490nm, Rx:1310nm
  - Max. 4 ports or 8 ports per OLT box
- Uplink port:
  - 1000Base-T Ethernet, RJ-45 interfaces
  - 1000Base-Fx Ethernet, SFP module slots
  - Max. 2/4/8 ports per OLT box
- Capacity:
  - Max. 64 ONUs per PON port
  - Whole system support up to 128/256/512 ONUs
- Management Port:
  - 1 x 10/100Base-T out-band port
  - 1 x RJ-45 Console port (RS-232C)
- Power Module:
  - AC+AC redundancy (OLT8610+/8P)
  - AC: 90~264V AC, 47~63Hz

System Register and Configuration

- ONU registration & deregistration
- Enable/disable/reset OLT or ONU
- ONU authentication/re-authentication
- ONU MAC authentication
- Off-line ONU list management

System Management & Maintenance

- Full complies with IEEE 802.3ah OAM standard
- CLI, TELNET, EMS management
- SNMP support
- Support online upgrading and ONU batch upgrade
- System and port statistic
- Alarm management
- EPON management function: DBA,ONU authorization, ACL,QOS,etc;
- Port Status monitoring and configuration management;

Layer 3 Router Function

- 1024 Host Routes;
- 512 Subnet Routes;
- 256 IP Multicast Groups;

Ethernet Layer 2 Function

- IEEE 802.1Q tag-based VLAN (4096 entries)
- Port-based VLAN and protocol-based VLAN
- 16K MAC address table
- IGMP Snooping
- IEEE 802.3x flow control
- Rapid Spanning Tree Protocol (RSTP)
- Port stability statistic and monitoring
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Traffic & QoS Management

- IEEE 802.1P priority queue
- Dynamic Bandwidth Allocation (DBA)
- Port-based rate limitation

Dimension

OLT 8610+/2P, OLT 8610+/4P

- 442(W) x 200(D) x 44(H) mm

OLT 8610+/8P

- 442(W) x320(D) x 43.6(H) mm

Operating Environment

- Operation Temperature: -10 ° C ~ 55 C
- Storage Temperature: -40 ° C ~ 85 ° C
- Humidity: 5~90%, non-condensing