

OLT 9700 Series

1U GPON 4P/8P/16P

Passive Optical Line Terminal



- Support ITU-T G.984/G.988, meets relevant requirements of GPON OLT regulated in *Network Access Technical Requirements*
- 4 gigabit SFP ports, 4 gigabit combo ports and 4 10GE SFP+ ports.
- Low power consumption and low operating cost
- The link can be automatically switched when trouble occurs in the optical fiber;
- Supports dual-AC, dual-DC and AC/DC power supply. The power supply supports modularized design, hot-swap and EMC-3 standard. It well adapts to the environment.

TAINET OLT 9700 Series complies with ITU-T G.984/G.988 and meets requirements about GPON OLT in *Network Access Technical Requirements*.

TAINET OLT 9700 Series supports the Asymmetric uplink 1.25Gbps/downlink 2.5Gbps PON transmission rate, efficient bandwidth usage and Ethernet services, helping carriers to provide reliable services to their users.

Its coupling ratio ups to 1:128, and its support of different hybrid ONU networks minimize the carrier's investment.

TAINET OLT 9700 Series, based on the edge-cutting technologies, is strong in functions. A few of its functions such as QoS guarantee, SLA and DBA can be easily listed out.



OLT 9700 Series – Optical Line Terminal

- OLT 9700/4P: 4 PON, 4*10GE ports or 4*GE ports (4*Gigabit TX ports)
- OLT 9700/8P: 8 PON, 4*10GE ports or 8*GE ports (4*Gigabit SFP ports, 4*Gigabit TX/SFP combo ports)
- OLT 9700/16P: 16 PON, 4*10GE ports or 8*GE ports (4*Gigabit SFP ports, 4*Gigabit TX/SFP combo ports)

System Capacity

- Maximum coupling ratio: 1:128
- Backplane bandwidth: 176G
- MAC table capacity: 40K

PON Interface

- Downlink 2.5Gbps / Uplink 1.25Gbps
- Class B+ and Class C+ GPON module
- Security: ONU authentication mechanism

Standards

- ITU-T G.984/G.988
- IEEE 802.1D Spanning Tree
- IEEE 802.1Q VLAN
- IEEE 802.1w RSTP
- IEEE 802.3ad physical link static/dynamic aggregation (LACP), Ethernet – II

VLAN

- Port/IP/Protocol/MAC-based VLAN
- 4K VLAN
- QinQ and flexible QinQ

Multicast

- L2 Multicast
- IGMP Snooping
- MLD-Snooping
- Fast-leave

QoS

- Backpressure flow control (half duplex)
- IEEE 802.3x flow control (full duplex)
- IEEE 802.1p CoS
- WRR, SP and FIFO queue schedule
- Limiting the uplink/downlink rate based on each ONU
- DBA and SLA

Layer 3 Function

- Static route
- RIPv1/v2
- OSPF
- BGP

Management

- CLI, Telnet, SSH, HTTP, SSL and SNMP
- ISSU
- FTP/TFTP

Reliability

- Unidirectional Link Detection (UDLD)
- Hot swap of the EPON optical module
- Type B optical protection
- Abnormal luminescence ONU detection such as long luminescence
- IEEE 802.3ad LACP

Network Security

- L2~4 ACL
- Flow-based ACL
- MAC limitation
- MAC sticky
- Port isolation
- Packet storm control
- Transmission data encryption on the PON interface
- Anti attack for DDOS, TCP-SYN-flood, UDP-flood, ARP-flood, etc.

Network Availability

- STP/RSTP/MSTP
- BPDU guard
- EAPS

Physical Characteristics

- 442.5(W) x 304(D) x 44(H) mm
- Installation: standard 19-inch rack-mounted
- Weight: 5.5Kg

Heat Dissipation

- Supports long-time use
- The device running hot will not affect the performance or cause break down

Environment

- Operating temperature: 0°C ~ 50°C; 10% ~ 85% non-condensation
- Storage temperature: -40°C ~ 80°C; 5% ~ 95% non-condensation

Power Supply

- Input voltage: AC 100~240V, DC 36~72V
- Dual-power input, DC/AC power supply and hot-swap

