



GPON OLT LTP-16N, LTP-16NT Station Equipment

- Up to 16 PON ports, 1U case
- Hot-swappable redundant power units
- Remote management via CLI, SNMP
- Compliance with G.988, G.984.x and TR-156 standards
- Ability to provide cable television together with data transmission
- Optimal solution for a small village or apartment building

Station equipment (OLT) is designed to provide broadband access over Passive Optical Network (PON).

GPON interfaces are used to connect the optical distribution network (PON). Up to 128 subscriber optical terminals can be connected to each interface via single fiber. Access to the operator's transport network is provided through 10 Gigabit uplink interfaces.

OLT LTP allows carriers to build scalable, fault tolerant "last mile" networks to ensure the highest safety standards. OLT manages subscriber devices, traffic switching, and connection to the transport network.

Broadband access using FTTH technology is the highest quality version of the Triple Play service delivery, as it provides high data rates over long distances.

Interfaces Configuration

	LTP-16N	LTP-16NT
10GBASE-X (SFP+)/1000BASE-X (SFP)	8	
2.5/1.25 Gbps GPON	16	
Sync	—	2
10/100/1000BASE-T (OOB)	1	
Console port RS-232 (RJ-45)	1	
USB 2.0	1	
Maximum number of ONT	2048	

Port Modes

- Duplex mode 1/10 Gbps for optical ports

Switch

- Switch performance: 120 Gbps
- MAC table: 64K entries
- Support for up to 4K VLAN complying to 802.1Q

Physical Parameters

- Power supply1:
 - 220 V (150–250 V) AC, 50 Hz
 - 48 V (-36..-72 V) DC
- Maximum power consumption: 75 W
- Operating temperature: from -5 to 40 °C
- Dimensions with installed power module (W × H × D): 430 × 44 × 317 mm, 19", 1U

SFP PON Parameters

- Transmission medium: SMF-9/125 optical fiber cable, G.652
- Splitting ratio up to 1:128
- Support for RSSI (Received Signal Strength Indication)

Standards

- ITU-T G.988 GPON
- ITU-T G.984x GPONITU
- T G.8032/Y.1344 Ethernet ring protection switching
- IEEE 802.3i 10BASE-T Ethernet
- IEEE 802.3u 100BASE-T Fast Ethernet
- IEEE 802.3ab 1000BASE-T Gigabit Ethernet
- IEEE 802.3z Fiber Gigabit Ethernet
- ANSI/IEEE 802.3 NWay auto-negotiation
- IEEE 802.3x Full Duplex and flow control
- IEEE 802.3ad Link aggregation
- IEEE 802.1p Protocol for Traffic Prioritization
- IEEE 802.1Q Virtual LANs
- IEEE 802.1ad Provider Bridges (QinQ)
- IEEE 802.1v VLAN Classification by Protocol and Port
- IEEE 802.3ac VLAN tagging
- IEEE 802.1d MAC bridges
- IEEE 802.1w Rapid Reconfiguration of Spanning Tree
- IEEE 802.1s Multiple Spanning Trees