

Ключевые преимущества

- up to 8 GPON line ports
- Ideal solution for a cottage village or an apartment building
- Remote control via CLI, SNMP
- G.988, G.984.x and TR-156 Standard
- Ability to provide cable TV together with data communication services



Optical Line Terminal (OLT) is designed to provide broadband access over Passive Optical Network (PON).

GPON interfaces are used to connect the optical distribution network (PON). You can connect up to 64 subscriber optical terminals via a single fibre for each interface. Access to the operator's transport network is provided through 10 Gigabit or combined Gigabit uplink interfaces.

OLT LTP-8X allows the operator 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. The main advantage of PON technology is the lack of electrically powered active nodes within the section from OLT to ONT, which greatly reduces the network operating cost. What's more, PON technology saves on cabling infrastructure by reducing the total length of the optical fibre, as only one fibre for a group of up to 64 subscribers is used within the section from the central node to the splitter.

SPECIFICATIONS

Name	PON line ports	Uplink ports	ONT support
OLT LTP-4X	4 SFP-based GPON	4 x combo 10/100/1000Base-T/ 1000Base-X ports 2 x 10GBase-X (SFP+) ports	256
OLT LTP-8X	8 SFP-based GPON	4 x 10/100/1000Base-T ports 4 x combo 10/100/1000Base-T/ 1000Base-X ports 2 x 10GBase-X (SFP+) ports	512



TECHNICAL SCECIFICATIONS

INTERFACES

LTP-4X

Uplink

- 2 x 10GBase (SFP+)/1000 Base-X ports
- 4 Combo 10/100/1000 Base-T/1000 Base-X (SFP) ports
 Subscriber Line Interfaces
- 4 SFP-based GPON (2.5/1.25 Gbps)

LTP-8X

Uplink

- -2 x 10GBase (SFP+)/1000 Base-X ports
- 4 Combo 10/100/1000 Base-T/1000 Base-X (SFP) ports
- -4 10/100/1000Base-T ports

Subscriber Line Interfaces

- 8 SFP-based GPON (2.5/1.25 Gbps)

GPON¹

- 9/125 μm single-mode fiber (SMF)
- Up to 1:64 splitting radio
- Received Signal Strenght Indication (RSSI)
- Support DDM (show parametrs in CLI)
 - Digital RSSI
- Module Temperature
 - Supply Voltage
- Laser Bias Current
 - Tx Optical Power Output

Class B+:

- Standard ITU-T G.984.2, FSAN Class B+, SFF-8472
- Max link distance 20 km
- Transmitter: 1490nm DFB Laser
 - Data Rate: 2488Mbps
- Average Launch Power +1,5..+5 dBm
 - Spectral Line Width-20 dB 1.0 nm
- Receiver: 1310nm APD/TIA Detector/Amplifier
 - Data Rate: 1244Mbps
- Receiver Sensitivity -28 dBm
 - Receiver Optical Overload -8 dBm

Class C+:

- Standard ITU-T G.984.2, FSAN Class C+, SFF-8472
- Max link distance 60 km
- Transmitter: 1490nm DFB Laser
 - Data Rate: 2488Mbps
- Average Launch Power +3..+7 dBm
 - Spectral Line Width-20 dB 1.0 nm
- Receiver: 1310nm APD/TIA Detector/Amplifier
 - Data Rate: 1244Mbps
- Receiver Sensitivity -32 dBm
 - Receiver Optical Overload -2 dBm
- Receiver Burst Mode Dynamic Range 20 dB

SWITCHING

- Processor Marvell Packet Processor
- 128 Gbps switch capacity
- MAC addresses 16K
- 4K active VLAN, IEEE802.1Q, double tagging (Q-in-Q)
- QoS

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PHYSICAL AND ENVIRONMENTAL SPECIFICATIONS

- Power:1
 - 160-250 VAC 50 Hz
- -48 VDC
- Max Power: 20W
- Ambient Operating Temperature: +5° to 40°C
- Humidity: up to 80%, non-condensing
- Dimensions: with internal power supply module 430x44x258
 (HxWxD) mm, 19-inch, 1 RU chassis

STANDARD COMPLIANCE

- ITU-T G.988 GPON
- ITU-T G.984x GPON
- 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

FEATURES AND BENEFITS

- MAC-address learning/aging
- MAC-address-table limit
- Handling unknown MAC-address
- Storm control
- Support to 1024 multicast groups
- Double tagging (Q-in-Q), IEEE 802.1ad
- IGMP Proxy
- IGMP Snooping
- IGMP fast leave
- VLAN 1 port-isolation
- STP, RSTP, MSTP

MANAGMENT

- CLI, SNMP
- Eltex.EMS (Eltex Managment System)

¹You can choose this option when ordering



CENTRALIZED MANAGEMENT SYSTEM

Eltex.EMS is a centralized network device management system made by Eltex.

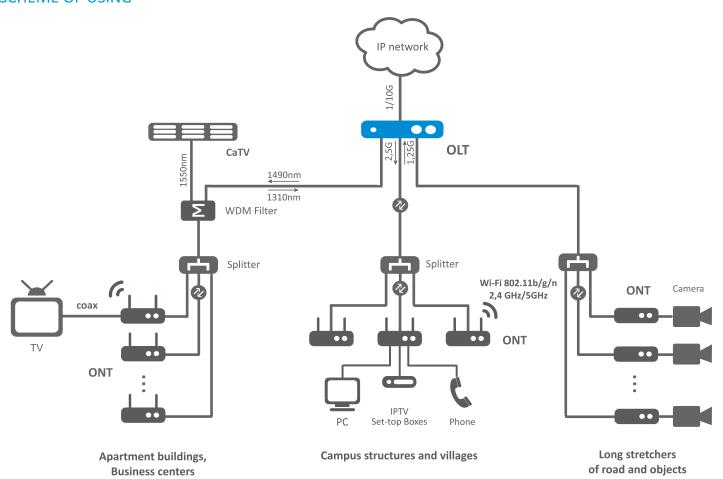
MAIN FUNCTIONS

- device parameters and power supply monitoring
- monitors physical and logical interface statistics
- manages customer profiles
- administration of mass firmware update system for customer PON devices
- displaying dynamic graphs of various statistics parameters online
- displays graphic presentation of physical port status
- quick start system for main configuration tools: SSH,
 Telnet, Web

STATISTICS

- gathering and storage of log messages
- quick CPE search in optical trees
- information on the large number of active subscribers on the PON network
- Internet, VoIP and IPTV services monitoring and customer statistic collection
- logging of all users' actions in the system

SCHEME OF USING





ORDERING INFORMATION

Name .	Description	Picture		
OLT LTP-4X AC	OLT LTP-4X, 4 PON ports (SFP), 4 combo 10/100/1000Base-T/1000Base-X ports, 2 10GBase-X (SFP+) ports, L2+, RSSI, power supply module PM160-220/12	T HILL III		
OLT LTP-4X DC	OLT LTP-4X, 4 PON ports (SFP), 4 combo 10/100/1000Base-T/1000Base-X ports, 2 10GBase-X (SFP+) ports, L2+, RSSI, power supply module PM75-48/12			
OLT LTP-8X AC	OLT LTP-8X, 8 PON ports (SFP), 4 10/100/1000Base-T ports, 4 combo 10/100/1000Base-T/1000Base-X ports, 2 10GBase-X (SFP+) ports, L2+, RSSI, power supply module PM160-220/12			
OLT LTP-8X DC	OLT LTP-8X, 8 PON ports (SFP), 4 10/100/1000Base-T ports, 4 combo 10/100/1000Base-T/1000Base-X ports, 2 10GBase-X (SFP+) ports, L2+, RSSI, power supply module PM75-48/12			
Additional Modules				
PM160-220/12	Power supply module PM160-220/12, 220V AC, 160W			
PM75-48/12	Power supply module PM75-48/12, 48V DC, 75W	11		
Software				
EMS-OLT	Eltex.EMS managment system option EMS-OLT for managment of network equipment Eltex. Per 1 OLT			

For more than twenty years major Russian company Eltex Enterprise, Ltd been designing and manufacturing a wide range of telecommunications and networking equipment: GPON devices, Ethernet-switches, Service Routers, Wireless, VoIPgateways, Softswitch & IMS, Set-top Boxes and much more.







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