



OLT LTX-8, OLT LTX-16 XGS-PON Station Equipment

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

XGS-PON interfaces are used to connect an optical distribution network. Up to 128 optical subscriber terminals can be connected to each interface via one fiber by the GPON standard and up to 256 subscriber terminals by the XGS-PON standard. Access to the carrier's transport network is provided through 100 Gigabit uplink interfaces.

OLT LTX allow carriers to build scalable, fault-tolerant "last mile" networks that meet the highest safety standards. OLT manages subscriber devices, traffic switching and connection to the transport network.

Broadband subscriber access via FTTH technology is the highest quality Triple Play service delivery option, as it provides high data transmission rates over long distances.

The main advantage of PON technology is the absence of electrically powered active nodes in the section from OLT to ONT, which significantly reduces the network operating cost. Furthermore, PON technology saves on cabling infrastructure by reducing the total length of the optical fiber, since one fiber for a group of up to 128 subscribers (GPON standard) and up to 256 subscribers (XGS-PON standard) is used in the section from the central node to the splitter.

OLT station terminals support two hot-swappable power modules with the ability to automatically switch to a redundant power unit.

OLT Interface Configuration

OLT name	Number of PON ports	Number of Uplink ports	Maximum number of ONTs
OLT LTX-8	8	4 x 100GBASE-SR-4/LR4 (QSFP28)	1024/2048
OLT LTX-16	16	4 x 100GBASE-SR-4/LR4 (QSFP28)	2048/4096

Features and Capabilities

Interfaces

LTX-8

- Uplink: 4 x 100GBASE-SR-4/LR4 (QSFP28) ports
- Downlink: 8 x XGS-PON ports

LTX-16

- Uplink: 4 x 100GBASE-SR-4/LR4 (QSFP28) ports
- Downlink: 16 x XGS-PON ports

Port Modes

- 100 Gbps duplex mode for optical ports

SFP PON Parameters¹

- Splitting ratio — up to 1:128 GPON and 1:256 XGS-PON
- Maximum distance: 20 km
- 1577 nm transmitter:
- Data transfer rate — 9.953 Gbps
- 1270 nm receiver:
- Data transfer rate — 9.953 Gbps

Switch

- Switch performance: 120 Gbps
- MAC address table: 64K entries
- VLAN table: 4K (in compliance with 802.1Q)

Physical Parameters

- Power supply voltage¹:
 - 100–240 V AC, 50–60 Hz
- Maximum power consumption: 108 W
- Operating temperature range: from -5° to 40 °C
- Relative humidity: up to 80%
- Dimensions with the power module installed (WxHxD):
 - 430 x 44 x 317 mm, 19" rack mount, 1U form factor