ELTEX

– **1 GPON port**
– **1 LAN port (10/100/1000BASE-T)**
– **Remote management via OMCI**

NTU-1L is an Optical Network Terminal (ONT) dedicated to connect users to data network via PON technology.

PON technology
PON is one of the most modern and effective solutions for "last mile", which allows significant savings on cable infrastructure and provides data transmission rates of up to 2.5 Gbps downlink and 1.25 Gbps uplink. The use of PON-based solutions in access networks makes it possible to provide end users with new IP services.

Use cases
•   connecting users in apartment buildings, residential areas, student campuses and facilities to broadband services;
•   deploying corporate networks for strategic industrial facilities and business centers with high safety and data rate requirements.

Features and capabilities

PON interface parameters
– 1 GPON port
– Compliance with ITU-T G.984.2, ITU-T G.984.5 Filter, FSAN Class B+, SFF-8472
– Connector type – SC/APC
– Transmission medium – single-mode optical fiber (SMF) – 9/125, G.652
– Maximum operating distance – 20 km
– Transmitter: 1310 nm DFB laser, burst mode
    – Data rate: 1244 Mbps
    – Average output power: +0.5..+5 dBm
    – Spectral line width: 1 nm (-20 dB)
– Receiver: 1490 nm APD/TIA Downstream digital receiver, CW Mode
    – Data rate: 2488 Mbps
    – Receiver sensitivity: -28 dBm, BER≤$1.0×10^{-10}$
    – Receiver optical overload: -8 dBm

LAN interface
– 1 port of Ethernet 10/100/1000BASE-T (RJ-45)

Functional features
– Support for QoS mechanisms
– VLAN in compliance with IEEE 802.1Q

Configuring and monitoring
– According to TR-142:
    – Remote managemenet via OMCI
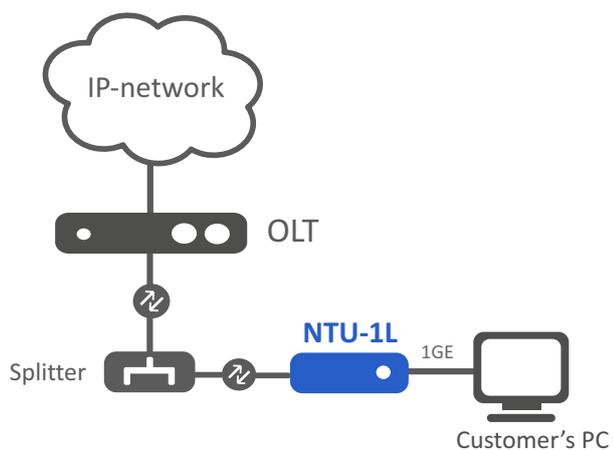   – Firmware update: OMCI, HTTP

Standards supported
– ITU-T G.984.x – GPON
– ITU-T G.988 OMCI specification
– IEEE 802.1D
– IEEE 802.1Q
– IEEE 802.1P

Physical specifications and environmental parameters
– Dimensions (W × H × D) – 80.3 × 29 × 94.3 mm, desktop case
– Power supply: DC power adapter 12 V/0.5 A;
– Maximum power consumption – 5 W
– Operating temperature range – from +5 to +40 °C
– Operating humidity – up to 80 %
– Weight – 0.066 kg

Connection diagram

IP-network

OLT

Splitter

NTU-1L

1GE

Customer's PC

Ordering information

Name	Description
NTU-1L	NTU-1L ONT, 1 × PON, 1 × LAN 10/100/1000BASE-T

About Eltex

Eltex Enterprise is a leading Russian developer and manufacturer of communication equipment with 30 years of history. Complete solutions and their seamless integrability into the Customer's infrastructure are the priority growth areas of the company.