

- 1 GPON port
- 1 LAN port (10/100/1000BASE-T)
- Remote management via OMCI
- RF port for providing CaTV service



ONT NTU-1LC is an Optical Network Terminal (ONT) dedicated to connect users to data network via GPON 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.

Services provided

- High-speed Internet access
- Streaming video/High Definition TV/IP TV, video on demand (VoD), video conferencing
- Online entertainment and educational programs

Applications

- 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

- 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, $BER \leq 1.0 \times 10^{-10}$
 - Receiver optical overload: -8 dBm

CaTV

- CATV video receiver, wavelength: 1550 nm
- Optical input power: -8 to +2 dBm
- Carrier-to-noise ratio (CNR): 46 dB
- Radio frequency bandwidth: 47 to 870 MHz
- RF output: 17 dBmV per channel, with 4 dB at a positive antenna tilt angle
- RF output impedance: 75 Ohm

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 management via OMCI
 - Firmware update: OMCI, HTTP

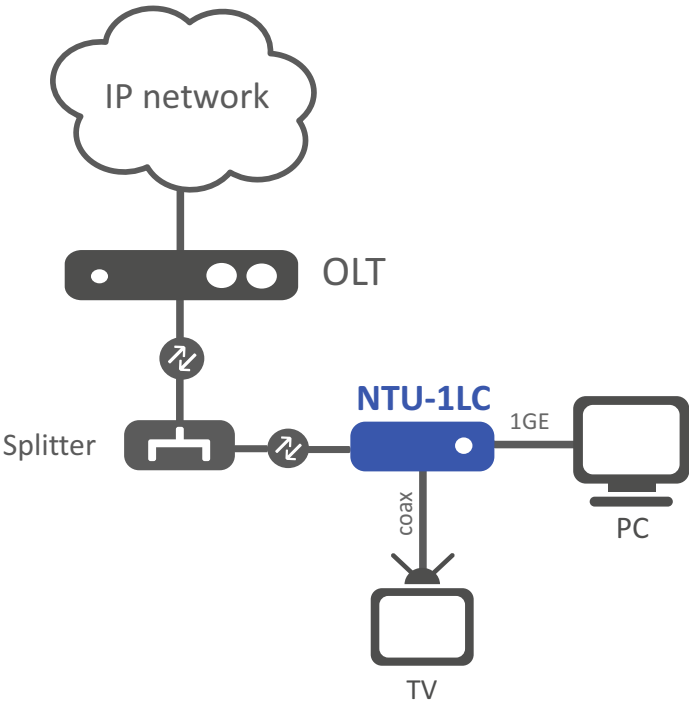
Standards compliance

- 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): 130.5 × 31.7 × 112.6 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: 0.150 kg

Use case



Ordering information

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

Contact us

About Eltex


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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.