

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



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

Use cases

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

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.

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 802.10
- IEEE 802.1P

Physical specifications and environmental parameters

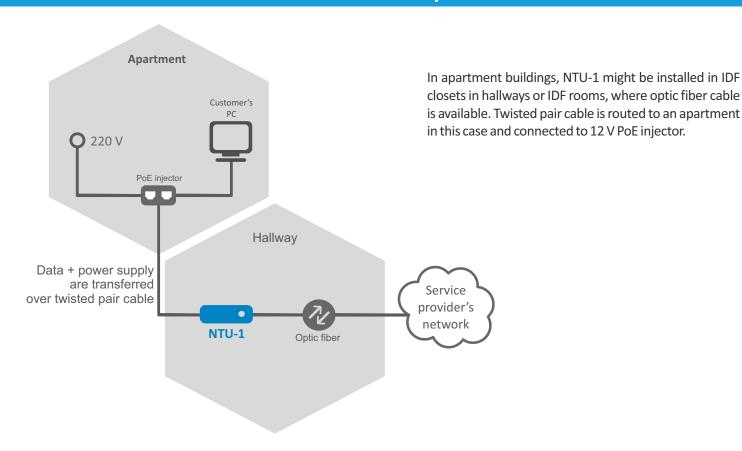
- Dimensions (W \times H \times D) 112 \times 32 \times 100 mm, desktop case
- Power supply:
 - via DC power adapter 12 V/0.5 A;
 - remote power supply via Ethernet cable (UTP CAT-5E) for up to 40 meters¹
- Maximum power consumption 5 W
- Operating temperature range from +5 to +40 °C
- Operating humidity up to 80 %
- Weight 0.25 kg

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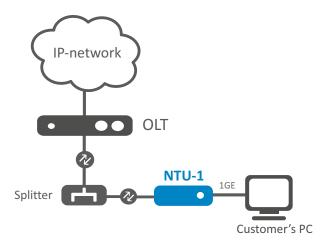
¹When using GRT-130100A, SSM-1330-1000A PoE injectors.



Use case with PoE injector



Connection diagram



Ordering information

Name	Description
NTU-1	ONT NTU-1, 1 PON port, 1 port of LAN 10/100/1000BASE-T

Contact us About Eltex







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