

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



ONT NTU-1 — subsriber terminals (ONT) dedicated to connect users to data network through GPON technology.

Use cases

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

GPON technology

GPON network belongs to one of the varieties of passive optical networks (PON). This 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 GPON-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: -4 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

Standards supported

- ITU-T G.984.x GPON
- ITU-T G.988 OMCI specification
- IEEE 802.1D
- IEEE 802.10
- IEEE 802.1P

Configuring and monitoring

- According to TR-142:
 - Remote managemenet via OMCI
 - Firmware update: OMCI, HTTP

Physical specifications and environmental parameters

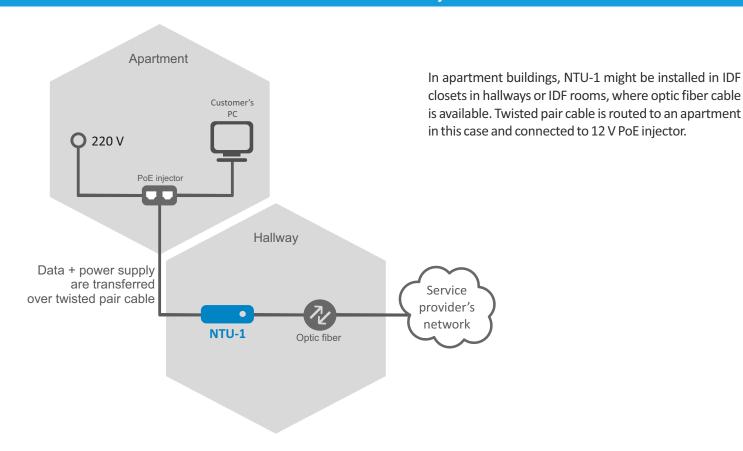
- Dimentions (WxHxD) 112 × 32 × 100 mm, desktop case
- Power supply:
 - Through DC power adapter 12 V / 2 A;
 - Remote power supply via Ethernet cable (UTP CAT-5E) for up to 40 meters*
- Maximum power consumption 5 W
- Operating temperature range from +5 to +40 °C
- Operating humidity up to 80 %
- Weight 0.25 kg

1 www.eltex-co.com

^{*} When 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

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