

NTE-2, NTE-2C

NTE-2, NTE-2C represent high-performance subscriber terminals designed for up-to-date services access at high rate as per Turbo GEPON technology.

PON technology

Turbo GEPON network refers to a type of Passive Optical Networks (PON) based on Ethernet technology. It is one of the most effective and advanced “last mile” solution which enables to significantly save on cable infrastructure and provide downlink transmission rate up to 2.5 Gbps and 1.25 Gbps uplink rate.

Turbo GEPON solutions application on access networks makes it possible to user to get access to new services based on IP protocol along with ordinary telephone services.

Available services

- High-speed access to Internet;
- Streaming video/High Definition TV;
- IP TV;
- Video on demand (VoD);
- Video conference;
- Online entertaining and teaching programs

Typical application

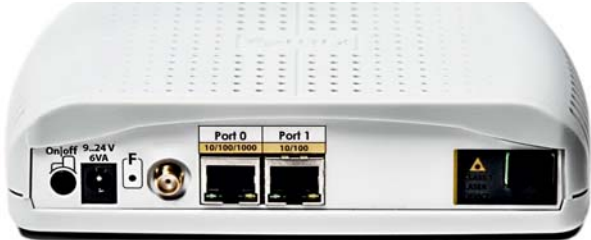
- Connection of tenement houses and cottage settlements subscribers to broadband access services;
- Corporate networking in large-scale enterprises and business centers.



NTE-2

- + 1 Turbo GEPON port
- + 1 100Base-T port
- + 1 10/100/1000 Base-T port
- + Maximal distance to OLT: 20 km.
- + Embedded Triplexer for CaTV service

(for NTE-2C)



NTE-2C



NTE-2

NTE-2C

subscriber terminals

Turbo GEPON

Technical characteristics

LAN interface parameters

- 1 Ethernet 100 Base-TX (RJ-45) port
- 1 Ethernet 10/100/1000 Base-T (RJ-45) port

PON interface parameters

- 1 Turbo GEPON port

Supported standards

- IEEE 802.3ah
 - IEEE 802.3u
 - IEEE 802.3z
 - IEEE 802.3x
 - IEEE 802.3ad
 - IEEE 802.1d
 - IEEE 802.1w
 - IEEE 802.1Q
 - IEEE 802.1p
-
- Transmission medium: SMF 9/125, G.652
 - Connector type: SC/APC
 - Transmitter power: from +0,5 to +5 dB
 - Receiver sensitivity: from -28 to -8 dB
 - Optical power budget upstream/downstream: 30.5/30 dB
 - Min. optical loss upstream/downstream: 11 dB/15 dB
 - Wavelength upstream/downstream: 1310/1490 nm
 - Spectral width of the laser upstream/downstream: 1 nm/1nm
 - Transmission speed upstream/downstream: 1,25/2.5 (1,25) Gbps
 - Max. transmission distance: up to 20 km.

CaTV characteristics (for NTE-2C)

- SMB connector for RF output

Supported standards

- ITU-T G.984.2
- IEC 60825-1
- EEC Directive 2002/95/EC (RoHS)

- Input optical power: from -8 to 2 dB
- Wavelength CaTV: 1550 nm
- Output frequency range: from 47 to 870 mHz
- Output level RF: 18 dBmV/channel

Features

- VLAN in accordance with IEEE802.1Q
- IGMP proxy/IGMP snooping
- Quality of Services (QoS)
- Priority of various types of traffic at PON ports in accordance with 802.1p recommendation
- Support of safety and security features
- Per-port rate limiting
- Advanced Encryption Standard (AES)
- Forward Error Correction (FEC) coding

Configuration

- Operation, Administration and Maintenance (OAM) protocol in accordance with IEEE802.3ah
- Remote software updating via OLT
- Control by TR-069 protocol

Physical and environmental specifications

- Power supply via adapter: 220V/(5..24)V
- Power consumption: NTE-2 - 5 Watt, NTE-2C - 7 Watt
- Temperature range at a workplace: from +5 to +40 degrees centigrade
- Relative humidity: up to 80%
- Overall dimensions: 151 x 107 x 40 mm, desktop installation



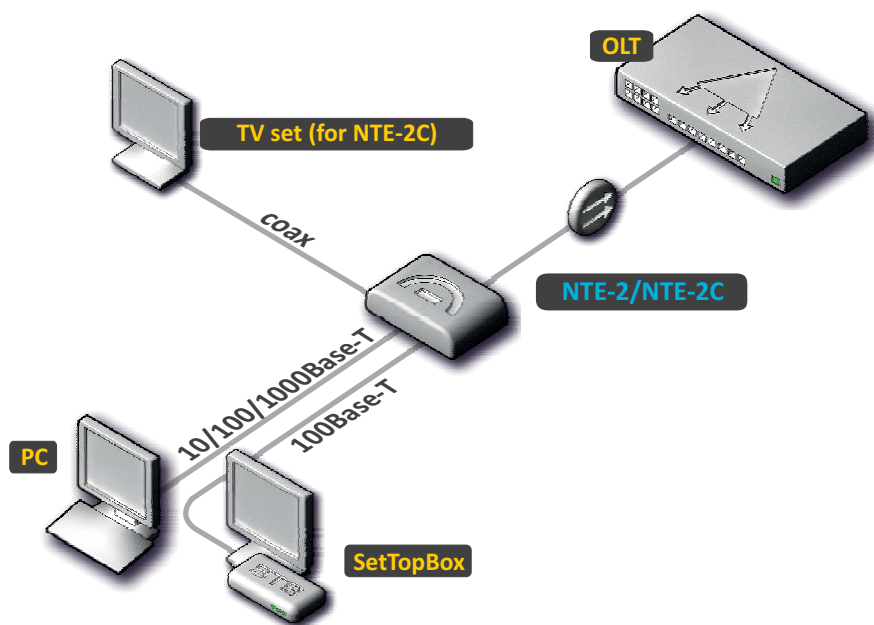
NTE-2

NTE-2C



subscriber terminals

Turbo GEPON

Typical application diagram



Information for order

Description	Picture	Part number
ONT NTE-2, 1 TurboGEPON (SC) port, 1 Ethernet 1000 Base-T port, 1 Ethernet 10/100 Base-T port, 20 km.		NTE-2
ONT NTE-2C, 1 TurboGEPON (SC) port, 1 Ethernet 1000 Base-T port, 1 Ethernet 10/100 Base-T port, Triplexer (RF connector) for connection to cable television, 20 km.		NTE-2C

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