

## NTP-2, NTP-2C

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

### PON technology

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



NTP-2

- + 1 GPON port
- + 2 10/100/1000Base-T ports
- + Max. distance to OLT: 20 km.
- + Embedded Triplexer for providing CaTV service (for NTP-2C)



NTP-2C



## Technical characteristics

### LAN interface parameters

- 2 Ethernet 10/100/1000 Base-T(RJ-45) ports

### PON interface parameters

- 1 GPON port

### Supported standards

- 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: 1nm/1nm
- Transmission speed upstream/downstream: 1.25/2.5 (1.25) Gbps
- Max. transmission distance: 20 km.

### CaTV characteristics (for NTP-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
- 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;
- Support of safety and security functions;
- Per-port rate limiting;
- Advanced Encryption Standard (AES);
- Forward Error Correction (FEC) coding

### Configuration

- Management and software updating via OMCI
- Remote software updating via OLT
- Management via TR-069 protocol

### Physical and environmental specifications

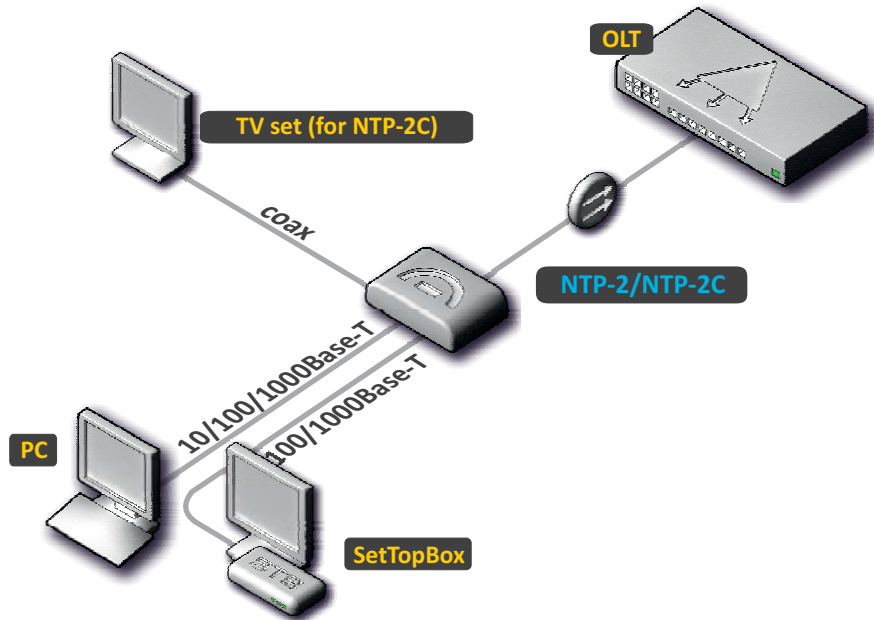
- Power supply via adapter: 220V/ (5..24) V
- Power consumption: NTP-2 - 5 Watt, NTP-2C -7 Watt
- Temperature range at a workplace: from +5 to +40 degrees centigrade
- Relative humidity: up to 80%
- Overall dimensions: 151 x 107 x 40 mm, desktop installation





# NTP-2 NTP-2C

subscriber terminals  
GPON

## Typical application diagram



## Information for order

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

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