

- 1 GPON port
- Gigabit router
- FXS phone ports
- USB 2.0 port for network storage connection
- Integrated Triplexer for CaTV service provisioning
- Wi-Fi 802.11n, up to 300Mbps



ONT NTP is high-performance feature-rich optical network terminals designed for provisioning of modern voice services and high-speed Internet access. Also, RG series optical network terminals provide subscribers with broader local network operation capabilities.

PON TECHNOLOGY

GPON technology is one of the most effective state-of-the-art solutions for the "last mile" issue that significantly reduces the required amount of cable and provides data transfer with downlink rate up to 2.5Gbps and uplink rate up to 1.25Gbps. Being used in access networks, GPON-based solutions allow end users to have access to a set of services based on IP protocol.

UNIVERSAL DEVICES

Integrated 4-port 10/100/1000 Base-T Gigabit router allows to manage a high-performance connection for network devices.

2 x FXS ports enable VoIP services. Devices with integrated Triplexer are equipped with RF output that allows you to connect a TV and watch analog or digital cable television (if such services are provided by the operator.) USB port can be used for USB-enabled devices (USB flash drives, external HDD) or printers.

SUPPORTED SERVICES

- High-speed internet access
- Video streaming/ High Definition TV/IP TV, Video on Demand (VoD), Video conferencing
- Cable TV (CaTV)
- VoIP
- Online entertainment and educational programs

APPLICATIONS

- Provision of broadband access services to subscribers located in multiple dwelling units, residential areas, campuses or suburban settlements.
- Corporate network construction at large strategic enterprises, or in office buildings with high requirements in terms of security and data transfer rates.

WIRELESS CONNECTION

Subscriber devices support IEEE 802.11b/g/n standard connections on 2.4GHz or 2,4/5GHz frequencies (optional).

SPECIFICATIONS

Name	WAN	LAN	POTS	Wi-Fi	RF	USB
NTP-2	1xGPON	2x1G				
NTP-2C	1xGPON	2x1G			1xRF	
NTP-RG-1402G-W	1xGPON	4x1G	2xFXS	●		2xUSB2.0
NTP-RG-1402GC-W	1xGPON	4x1G	2xFXS	●	1xRF	1xUSB2.0

TECHNICAL SPECIFICATIONS NTP-2(C)

INTERFACES

GPON

- 1 x GPON port

NTP-2

- Complies with ITU-T G.984.2, FSAN Class A+
- SC/APC connector
- 9/125, G.652 μm single-mode fiber (SMF)
- Splitting ratio: up to 1:64
- Maximum reach: 10km
- **Tx:** 1310 nm
 - Data Rate: 1244 Mbps
 - Average Launch Power: -2...+3 dBm
 - Spectral Width (RMS): 3 nm
- **Rx:** 1490 nm
 - Data Rate: 2488 Mbps
 - Receiver Sensitivity: -23 dBm with BER better than or equal to 1.0×10^{-10}
 - Receiver Optical Overload: -3 dBm

NTP-2C

- Complies with ITU-T G.984.2, ITU-T G.984.5 Filter, FSAN Class B+, SFF-8472
- SC/APC connector
- 9/125, G.652 μm single-mode fiber (SMF)
- Splitting ratio: up to 1:64
- Maximum reach: 20km
- **Tx:** 1310nm DFB Upstream Burst Mode Transmitter
 - Data Rate: 1244Mb/s
 - Average Launch Power +0,5...+5 dBm
 - Spectral Line Width @ -20 dB 1 nm
- **Rx:** 1490nm APD/TIA Downstream CW Mode Digital Receiver
 - Data Rate: 2488Mb/s
 - Receiver Sensitivity -28 dBm With BER better than or equal to 1.0×10^{-10}
 - Receiver Optical Overload -4 dBm
- **CaTV Rx:** 1550nm Downstream Linear CATV Video Receiver
 - Optical Input Power: -8...+2 dBm
 - Compound Second Order (CSO): -55 dB
 - Compound Triple Beat (CTB): -55 dB
 - Carrier to Noise Ratio (CNR): 46 dB
 - RF Bandwidth: 47 to 870MHz
 - RF Output: 17dBmV / ch with 4dB positive tilt
 - RF Output Impedance: 75 Ω

LAN INTERFACE SPECIFICATIONS

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

PHYSICAL SPECIFICATIONS AND AMBIENT CONDITIONS

- Dimensions (WxDxH) - 151x107x40 mm
- Power adapter voltage: 220V/12V
- Power consumption: NTP-2 – 12W, NTP-2C – 12W
- Operating temperature range: from +50°C to +40°C
- Relative humidity up to 80%



STANDARD COMPLIANCE

- ITU-T G.988 omci specification
- ITU-T G.984.x - GPON
- IEEE 802.1D
- IEEE 802.1Q
- IEEE 802.1P

FEATURES AND BENEFITS

- TR-069
- Work in bridge and router modes
- PPPoE (auto, PAP, MSCHAP and CHAP)
- IPoE (DHCP-client and static)
- DHCP Server on LAN side
- DNS (Domain Name System)
- DynDNS (Dynamic DNS)
- UPnP (Universal Plug and Play)
- NAT (Network Address Translation)
- NTP (Network Time Protocol)
- Quality of Service (QoS)
- IGMP Snooping
- IGMP Proxy
- IEEE 802.1Q VLAN tagging

SECURITY FUNCTIONS

- Traffic Shaping
- Forward Error Correction (FEC)

MANAGEMENT

- TR-142:
 - OMCI
 - TR-069
- Terminal for Command Line Interface (CLI)
- Web GUI based Management
- Update Software: OMCI, TR-069, HTTP, TFTP

TECHNICAL SPECIFICATIONS NTP-RG-1402G-W

INTERFACES

GPON

- 1 x GPON port
- ITU-T G.984.2 compliance, FSAN Class A+
- SC/APC connector
- 9/125, G.652 μm single-mode fiber (SMF)
- Up to 1:64 splitting ratio
- 10km reach
- **Tx:** 1310 nm
 - Data Rate: 1244 Mbps
 - Average Launch Power: -2...+3 dBm
 - Spectral Width (RMS): 3 nm
- **Rx:** 1490 nm
 - Data Rate: 2488 Mbps
 - Receiver Sensitivity: -23 dBm with BER better than or equal to 1.0×10^{-10}
 - Receiver Optical Overload: -3 dBm

Ethernet

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

POTS

- 2 x FXS ports
- SIP (RFC 3261)
- Codec: G.729 (A), G.711(A/U), G.723.1
- G.711 and T.38 FAX
- DTMF dialing
- Caller ID

Wireless Support

- Standard compliance - 802.11 b/g/n
- Security: WEP, WPA, WPA2
- Frequency range 2400 ~ 2497 MHz
- PSK/CCK, DBPSK, DQPSK, OFDM Modulation

Data Rate, Mbps

- 802.11b: 1, 2, 5.5, 11, 6, 9, 12, 18, 24, 36, 48, 54
- 802.11g (20 MHz BW): 130, 117, 104, 78, 52, 39, 26, 13
- 802.11n (40 MHz BW): 270, 243, 216, 162, 108, 81, 54, 27

Transmit Output Power

- 802.11b: 17dBm +/-1.5dBm
- 802.11g: 15dBm +/-1.5dBm
- 802.11n: 14,75dBm +/-1.5dBm

USB

- 2 x USB 2.0

PHYSICAL AND ENVIRONMENTAL SPECIFICATIONS

- Dimensions (WxDxH) - 187x120x32 mm
- Horizontal stand
- Power supply - 220V AC/12V DC
- Power Dissipation - up to 16W
- Operating temperature: +5^o to +40^oC
- Relative humidity operating: to 80% (noncondensing)



STANDARD COMPLIANCE

- ITU-T G.984.x - GPON
- ITU-T G.988 omci specification
- IEEE 802.1D
- IEEE 802.1Q
- IEEE 802.1P

FEATURES AND BENEFITS

- TR-069
- Work in bridge and router modes
- PPPoE (auto, PAP, MSCHAP and CHAP)
- IPoE (DHCP-client and static)
- DHCP Server on LAN side
- Multicast via Wi-Fi
- DNS (Domain Name System)
- DynDNS (Dynamic DNS)
- UPNP (Universal Plug and Play)
- NAT (Network Address Translation)
- NTP (Network Time Protocol)
- QoS
- IGMP Snooping
- IGMP Proxy
- 802.1Q VLAN tagging

Security functions

- Traffic Shaping
- Forward Error Correction (FEC)

MANAGEMENT

- TR-142:
 - OMCI
 - TR-069
- Terminal for Command Line Interface (CLI)
- Web GUI based Management
- Update Software: OMCI, TR-069, HTTP, TFTP

TECHNICAL SPECIFICATIONS NTP-RG-1402GC-W

INTERFACES

GPON

- 1 x GPON port
- ITU-T G.984.2, ITU-T G.984.5 Filter, FSAN Class B+, SFF-8472
- SC/APC connector
- 9/125, G.652 μm single-mode fiber (SMF)
- Up to 1:64 splitting ratio
- 20km reach

- **Tx:** 1310 nm DFB Upstream Burst Mode Transmitter
 - Data Rate: 1244 Mbps
 - Average Launch Power: +0,5..+5 dBm
 - Spectral Line Width @ -20 dB 1 nm
- **Rx:** 1490 nm APD/TIA Downstream CW Mode Digital Receiver
 - Data Rate: 2488 Mbps
 - Receiver Sensitivity: -28 dBm With BER better than or equal to 1.0×10^{-10}
 - Receiver Optical Overload: -4 dBm
- **CaTV Rx:** 1550nm Downstream Linear CATV Video Receiver
 - Optical Input Power: -.+.2 dBm
 - Compound Second Order (CSO): -55 dB
 - Compound Triple Beat (CTB): -55 dB
 - Carrier to Noise Ratio (CNR): 46 dB
 - RF Bandwidth: 47 to 870MHz
 - RF Output: 17dBmV / ch with 4dB positive tilt
 - RF Output Impedance: 75 Ω

Ethernet

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

POTS

- 2 FXS ports
- SIP (RFC 3261)
- Codec: G.729 (A), G.711(A/U), G.723.1
- G.711 and T.38 FAX
- DTMF dialing
- Caller ID

Wireless Support

- Standard compliance - 802.11 b/g/n
- Security: WEP, WPA, WPA2
- Frequency range 2400 ~ 2497 MHz
- PSK/CCK, DBPSK, DQPSK, OFDM Modulation

Data Rate, Mbps

- 802.11b: 1, 2, 5.5, 11, 6, 9, 12, 18, 24, 36, 48, 54
- 802.11g (20 MHz BW): 130, 117, 104, 78, 52, 39, 26, 13
- 802.11n (40 MHz BW): 270, 243, 216, 162, 108, 81, 54, 27

Transmit Output Power

- 802.11b: 17dBm +/-1.5dBm
- 802.11g: 15dBm +/-1.5dBm
- 802.11gn: 14,75dBm +/-1.5dBm

USB

- 1x USB 2.0

PHYSICAL AND ENVIRONMENTAL SPECIFICATIONS

- Dimensions (WxDxH) - 218x120x49 mm
- Horizontal stand
- Power supply - 220V AC/12V DC
- Power Dissipation - up to 24W
- Operating temperature: +5° to +40°C
- Relative humidity operating: to 80% (noncondensing)



STANDARD COMPLIANCE

- ITU-T G.984.x - GPON
- ITU-T G.988 omci specification
- IEEE 802.1D
- IEEE 802.1Q
- IEEE 802.1P

FEATURES AND BENEFITS

- TR-069
- Work in bridge and router modes
- PPPoE (auto, PAP, MSCHAP and CHAP)
- IPoE (DHCP-client and static)
- DHCP Server on LAN side
- Multicast via Wi-Fi
- DNS (Domain Name System)
- DynDNS (Dynamic DNS)
- UPnP (Universal Plug and Play)
- NAT (Network Address Translation)
- NTP (Network Time Protocol)
- QoS
- IGMP Snooping
- IGMP Proxy
- 802.1Q VLAN tagging

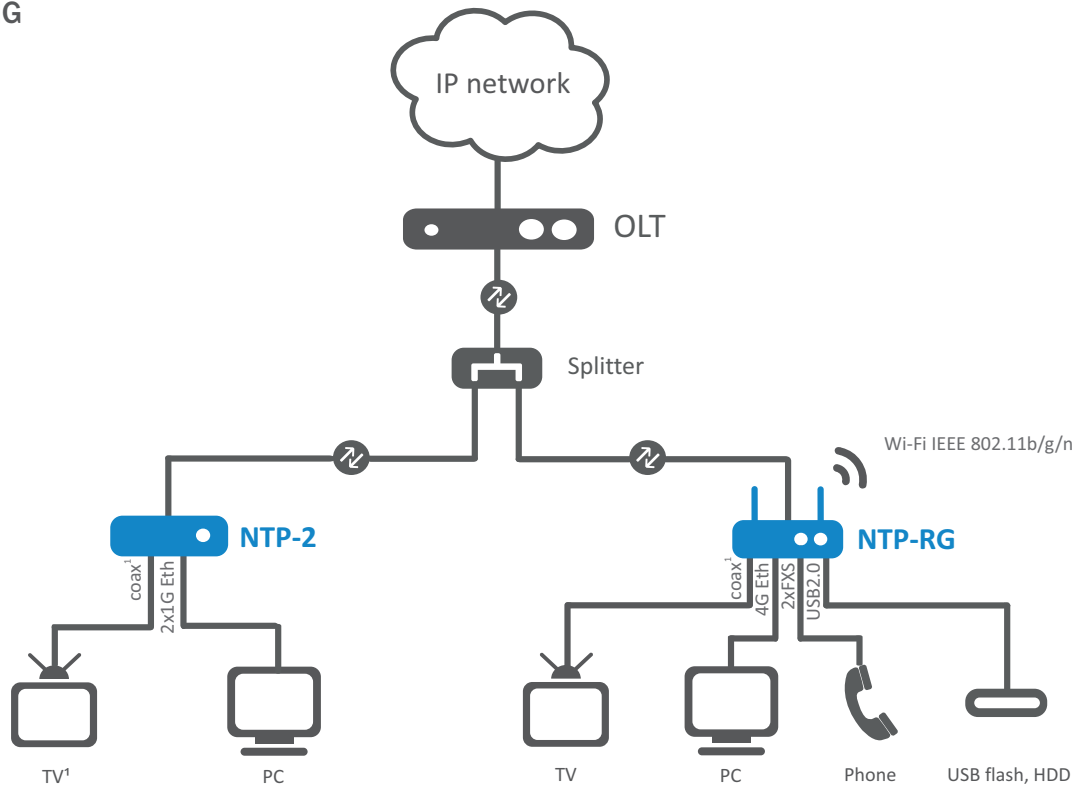
Security functions

- Traffic Shaping
- Forward Error Correction (FEC)

MANAGEMENT





- TR-142:
 - OMCI
 - TR-069
- Terminal for Command Line Interface (CLI)
- Web GUI based Management
- Update Software: OMCI, TR-069, HTTP, TFTP

SCHEME OF USING



¹For NTP-2C, NTP-RG-1402GC-W models

ORDERING INFORMATION

Name	Description	Picture
NTP-2	ONT NTP-2: 1 x GPON port, 2 x LAN 10/100/1000 Base-T	
NTP-2C	ONT NTP-2C: 1 x GPON, 2 x LAN 10/100/1000 Base-T ports, 1 x RF-port	
NTP-RG-1402G-W	ONT NTP-RG-1402G-W: 1 x GPON port, 4 x LAN 10/100/1000 Base-T, 2 x USB2.0, 2 x FXS, Wi-Fi (802.11n, 300 Mbps, 2,4 GHz)	
NTP-RG-1402GC-W	ONT NTP-RG-1402G-W: 1 x GPON port, 4 x LAN 10/100/1000 Base-T, 1 x USB2.0, 2 x FXS, Wi-Fi (802.11n, 300 Mbps, 2,4 GHz), 1 x RF-port	

Software

ACS-CPE-512	Eltex.ACS system option ACS-CPE-512 for management and autoconfiguration Eltex CPE: 512 CPE
ACS-CPE-1024	Eltex.ACS system option ACS-CPE-1024 for management and autoconfiguration Eltex CPE: 1024 CPE

About Eltex

For more than twenty years major Russian company Eltex Enterprise, Ltd been designing and manufacturing a wide range of telecommunications and networking equipment: GPON devices, Ethernet-switches, Service Routers, Wireless, VoIP-gateways, Softswitch & IMS, Set-top Boxes and much more.

Contact us

 +7 (383) 274 10 01
 eltex@eltex.nsk.ru
 www.eltex.nsk.ru
 +7 (383) 274 48 48