

NTE-RG-1400G-W/GC-W, NTE-RG-1402G-W/GC-W

NTE-RG-140xG-W/GC-W represent high-performance multifunctional subscriber terminals designed for up-to-date telephone services and high-speed Internet access. RG series subscriber terminals provide a variety of opportunities for local network operation.

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;
- IP telephony;
- 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-RG-1400G-W/GC-W

- + 1 Turbo GEPON port
- + Gigabit router
- 4 10/100/1000 Base-T ports
- + Wi-Fi 802.11n(up to 450Mbps)
- + USB port
- + Max. distance to OLT: 20 km.
- + Embedded Triplexer for providing CaTV service
(for NTE-RG-1400GC-W)



NTE-RG-1402G-W/GC-W

- + 1 Turbo GEPON port
- + Gigabit router
- 4 10/100/1000 Base-T ports
- + 2 FXS ports
- + Wi-Fi 802.11n(up to 450Mbps)
- + USB port
- + Max. distance to OLT: 20 km.
- + Embedded Triplexer for providing CaTV service
(for NTE-RG-1402GC-W)

Technical characteristics

LAN interface parameters

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

PON interface parameters

- 1 Turbo GEAPON 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
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- 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 upstream/downstream 1nm/1nm
 - Transmission speed upstream/downstream: 1,25/2.5 (1,25) Gbps
 - Max. transmission distance: 20 km.

CaTV characteristics (for NTE-RG-140xGC-W)

- SMB connector for RF output

Supported standards

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

Configuration

- Web-interface, CLI
- Remote control via Telnet, SNMP, SSH
- Management and software updating via TR-069 protocol

IP telephony (for NTE-RG-1402G-W/GC-W)

Supported protocols - SIP

Audio codecs

- G.729, annex A, annex B
- G.711 (A/m)
- G.723.1 (5,3 Kbps)
- G.726

Fax transfer

- G.711

Analog subscriber port parameters

- 2 FXS ports
- Loop resistance: up to 2 KOhm
- Dual Tone Multiple Frequency (DTMF)
- Overcurrent and overvoltage protection of line interface
- Caller ID

NTE-RG-1400G-W/GC-W

NTE-RG-1402G-W/GC-W

subscriber terminals

Turbo GEAPON

Wi-Fi wireless interface parameters

Standards: 802.11 b/g, 802.11 n

Frequency range: 2400 ~ 2483,5 MHz

BPSK, QPSK, 16 QAM, 64 QAM, DBPSK, DQPSK, CCK modulation

Data transmission rate, Mbps:

802.11b (CCK): 1, 2, 5.5, 11

802.11g (OFDM): 6, 9, 12, 18, 24, 36, 48, 54

802.11n (HT20, 800ns GI): 130, 117, 104, 78, 52, 39, 26, 13

802.11n (HT40, 400ns GI): 300, 270, 240, 180, 120, 90, 60

802.11n (HT40, 800ns GI): 270, 243, 216, 162, 108, 81, 54, 27

Max. output transmitter power:

802.11b (11 Mbps): 16,5 dBm

802.11g (54 Mbps): 12,5 dBm

802.11n (HT20-MCS7): 10,5 dBm

802.11n (HT40-MCS7): 9,5 dBm

Receiver sensitivity:

802.11b (11 Mbps): -86 dBm

802.11g (54 Mbps): -73 dBm

802.11n (HT20-MCS7): -68 dBm

802.11n (HT40-MCS7): -65 dBm

Safety:

64/128/152 bit data WEP encryption, WEP, WPA, WPA2

Operation system:

Windows XP 32/64, Windows Vista 32/64, Windows 7 32/64

Features

- Operation in «bridge» or «router» modes
- PPPoE (PAP, SPAP and CHAP authorization) support
- Static address and DHCP (DHCP client on WAN port, DHCP server on LAN port, DHCP-relay)
- Multicast traffic transmission via Wi-Fi
- Domain Name System (DNS)
- Dynamic DNS (DynDNS)
- Universal Plug and Play (UPNP)
- Network Address Translation (NAT)
- Network Time Protocol (NTP)
- TR-069/TR-142
- Quality of Services (QoS)
- IGMP-snooping
- IGMP-proxy

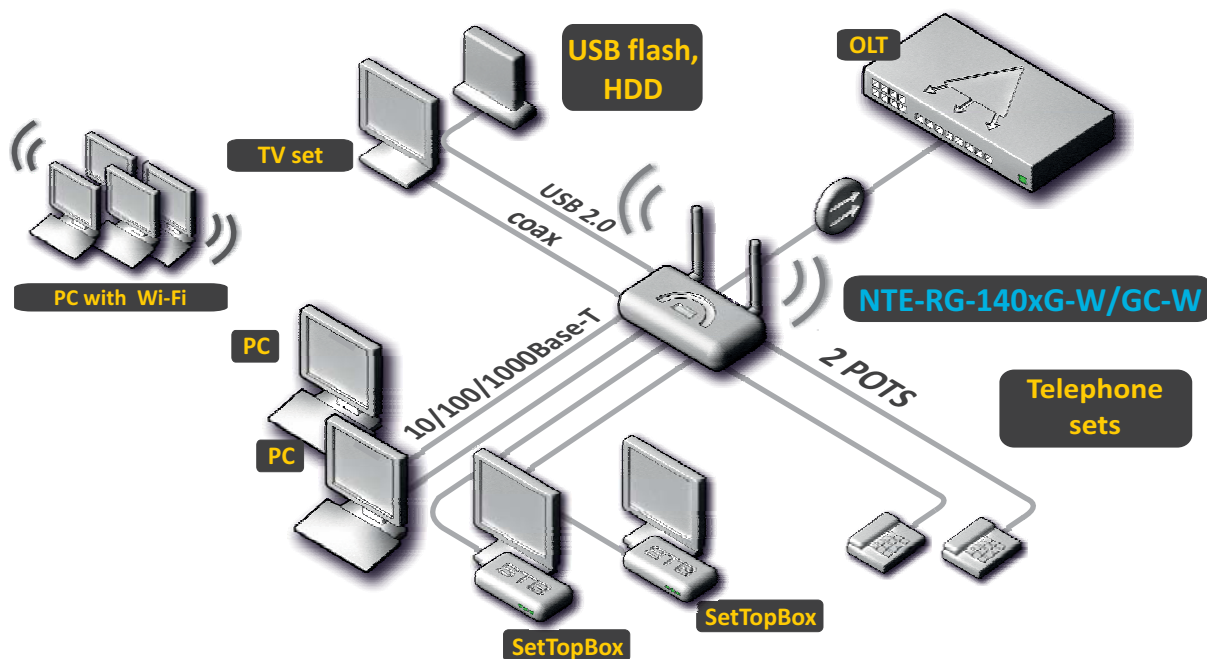
Physical and environmental specifications

- Power supply via adapter: 220V/ (5..24) V
- Power consumption: not more than 17 Watt
- Temperature range at a workplace: from +5 to +40 degrees centigrade
- Relative humidity: up to 80%
- Overall dimensions: 218 x 120 x 49 mm, desktop installation







NTE-RG-1400G-W/GC-W
NTE-RG-1402G-W/GC-W
 subscriber terminals
 Turbo GEPON

Typical application diagram



Information for order

Description	Picture	Part number
ONT NTE-RG-1400G-W, 1 TurboGEPON (SC) port, 4 Ethernet 10/100/1000 Base-T ports, 1 USB port, up to 3 Wi-Fi IEEE 802.11ntransceiver (up to 450 Mbps), 20 km.		NTE-RG-1400G-W
ONT NTE-RG-1400GC-W, 1 TurboGEPON (SC) port, 4 Ethernet 10/100/1000 Base-T ports, 1 USB port, Triplexer (RF connector) for connection to cable television, up to 3 Wi-Fi IEEE 802.11n transmitters (up to 450 Mbps), 20 km.		NTE-RG-1400GC-W
ONT NTE-RG-1402G-W, 1 TurboGEPON (SC) port, 4 Ethernet 10/100/1000 Base-T ports, 2 FXS ports, 1 USB port, up to 3 Wi-Fi IEEE 802.11ntransmitters (up to 450 Mbps), 20 km		NTE-RG-1402G-W
ONT NTE-RG-1402GC-W, 1 TurboGEPON (SC) port, 4 Ethernet 10/100/1000 Base-T ports, 2 FXS ports, 1 USB port, Triple X (RF connector)for connection to cable television, up to 3 Wi-Fi IEEE 802.11n transmitters (up to 450 Mbps), 20 km		NTE-RG-1402GC-W

For technical support for products of Eltex Enterprise Ltd. you may get in contact with our specialists in technical support service. On our web site you may find manuals and software for our products or consult with engineers in technical forum:

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