

- 1 GPON pdr
- Gigabit router
- 2 FXS ports for analogue phone connection
- USB 2.0 port for USB driver printer connection
- Wi-Fi 802.11 b/g/n

ONT NTU-RG-5402G-W – a high performance multifunctional subscriber terminal that is designed to access modern telephony, IPTV, OTT services as well as high-speed Internet. Furthermore, NTU-RG-5402G-W allows carriers to offer their clients a wide range of services and opportunities to work in a local network.

PON technology

PON technology - one of the most effective last mile solutions today. The technology helps to reduce costs for cable infrastructure and ensures data rates of 2.5 Gbps downlink and 1.25 Gbps uplink. The use of PON technology in access networks allows providing end users with access to IP services.

Universal device

The integrated gigabit router for 4 ports of 10/100/1000Base-T ensures high-speed connection of devices in a network. 2 FXS ports provide access to IP telephony services. The USB port can be used for USB device connection (USB flash drive, external HDD, printer).

Provided services

- High-speed access to the Internet
- Stream video/High Definition TV/IPTV, Video on Demand (VoD), video conference
- VoIP
- Online educational and entertainment programmes



Application

- Providing broadband access services to subscribers in apartment houses, residential areas, campuses or suburban settlements
- Corporate network construction at large strategic enterprises or in office buildings with high requirement in terms of security and data transfer rates

Wireless connection

Subscriber router NTU-RG-5402G-W supports 802.11b/g/n Wi-Fi connectivity.

ONT NTU interfaces configuration

	WAN	LAN	FXS	RF	Wi-Fi	USB
NTU-RG-5402G-W	1xGPON	4x1G	2	_	802.11n, 2*2 -300Mbps - 2.4GHz	1xUSB2.0



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 media fiber-optic cable SMF 9/125, G.652
- Maximum operating distance 20 km
- Transmitter:
 - 1310 nm DFB Upstream Burst Mode Transmitter
 - Data rate: 1244 Mbps
 - Average Launch Power: +0.5..+5 dBm
 - Spectral Line Width 1 nm (-20 dB)
- Receiver:
 - 1490 nm APD/TIA Downstream CW Mode Digital Receiver
 - Data rates: 2488 Mbps
 - Receiver Sensitivity -28 dBm, BER≤1.0x10⁻¹⁰
 - Receiver Optical Overload -4 dBm

LAN interfaces parameters

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

FXS interfaces parameters

- 2 FXS ports
- SIP
- Audio codecs: G.729 (A), G.711(A/U), G.723.1
- Fax transmission: G.711, T.38
- Loop resistance up to 2 k $\!\Omega$
- Supported dialing technologies: pulse and frequency (DTMF)
- Caller ID issuing

Wi-Fi parameters

- Supported standards: IEEE 802.11 b/g/n
- MIMO scheme
- Frequency range: 2400 ~ 2483.5 MHz
- Wireless connection security: WEB, WPA/WPA2

<u>Channels</u>

- IEEE 802.11b/g/n: 1-13

Data rates¹

- 802.11b: 1, 2, 5.5 and 11 Mbps
- 802.11g: 6, 9, 12, 18, 24, 36, 48 and 54 Mbps
- 802.11n: from 6.5 to 300 Mbps (from MCS0 to MCS15)

Maximum output power of the transmitter²

- 802.11b (11 Mbps): 17 dBm
- 802.11g (54 Mbps): 15 dBm
- 802.11n (MCS7): 15 dBm

Modulation schemes

- IEEE 802.11b: DQPSK, DBPSK, CCK
- IEEE 802.11g: BPSC, QPSC, 16QAM, 64QAM, OFDM
- IEEE 802.11n: BPSC, QPSC, 16QAM, 64QAM c OFDM

USB interface

- 1 USB 2.0 port - for USB device connection

Physical parameters and environment conditions

- Dimensions- 187x120x32 mm, desktop case
- Power supply: external DC adapter 12V/2A
- Maximum power consumption 15 W
- Operating temperature from +5 to +40°C
- Operating humidity $\leq 80\%$

Supported standards

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

Specifications

- Support for TR-069
- "Bridge" and "Router" operation modes
- Support for PPPoE (auto, PAP, MSCHAP and CHAP authentication)
- Support for IPoE (DHCP client and static)
- DHCP server on LAN side
- Multicast traffic transmission via Wi-Fi
- 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
- Support for UPNP, SMB, FTP-alg, Print Server
- VLAN complying with IEEE 802.1Q

Security functions

- Rate limiting per ports
- FEC coding

Configuration and monitoring

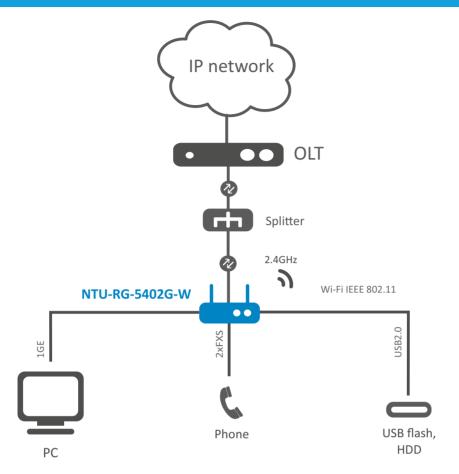
- According to TR-142:
 - Remote management via OMCI
 - Remote management via TR-069
- Local management via WEB
- Firmware updating via : OMCI, TR-069, HTTP

¹ The maximum wireless data rate is defined according to IEEE 802.11n/ac standard. The real bandwidth can be different. Conditions of the network operation, environment, the amount of traffic, building materials and constructions as well as network service data can decrease the real bandwidth. The environment can influence on the network coverage range.

² The value of the maximum output power will vary according to the rules of radio frequency regulation in your country.



Use Case



Ordering information

Name	Description	Image				
NTU-RG-5402G-W	ONT NTU-RG-5402G-W, 4 ports of LAN 10/100/1000Base-T, 1xUSB, 2xFXS, Wi-Fi (802.11n, 2*2 -300Mbps - 2.4GHz)	насалараран				
Related software						
ACS-CPE-512	ACS-CPE-512 option of Eltex.ACS system for Eltex CPE autoconfiguration: 512 subscriber devices					
ACS-CPE-1024	ACS-CPE-1024 option of Eltex.ACS system for Eltex CPE autoconfiguration: 1024 subscriber devices					

Contact Us

+7 (727) 220 76 10





About EltexAlatau

EltexAlatau company is one of the first communication equipment manufacturers in Kazakhstan established in 2012. The main focus of the enterprise is a set of solutions and the opportunity of their seamless connection to the customer's infrastructure.