

- 1 GPON port
- 4 LAN Gigabit Ethernet ports
- Dual-band Wi-Fi (802.11a/b/g/n/ac/ax/be)
- EasyMesh technology



NTU series ONTs are high performance multifunctional subscriber terminals designed to access modern IPTV, OTT and Internet services. NTU-RG series terminals enable providers to offer users a wide range of services and local network features.

PON technology

PON technology is one of the most modern and efficient last mile problem solutions. The technology helps to reduce costs for cable infrastructure and providing data rates of up to 2.5 Gbps in downlink and 1.25 Gbps in uplink direction. The use of PON technology in access networks allows providing end users with access to IP-based services.

Universal devices

The integrated gigabit router with four 10/100/1000BASE-T ports ensures high-speed connection of network devices.

Provided services

- High-speed access to the Internet
- Video streaming/High Definition TV/IPTV, video on demand (VoD), video conferences
- Online entertainment and educational programs

Application

- Providing broadband access services to subscribers in apartment blocks, residential estates, campuses and suburban settlements
- Building corporate networks in large strategic enterprises and in business centers with high requirements to security and data transfer rates

Advantages of EasyMesh technology

- Network intelligence: a self-organizing and self-optimizing network collects information and responds to network conditions for maximum performance
- Efficient load balancing: allows devices to switch to a better connection and avoid interference
- Scalability: allows adding multi-vendor Wi-Fi EasyMesh access points

Wireless connection

NTU-RG-5720L subscriber terminal support the 802.11be standard, that provides data rates up to 2882 Mbps and delivers modern high-speed services to subscriber equipment via the wireless network.

Two integrated Wi-Fi controllers ensure simultaneous dual-band operation in 2.4 GHz and 5 GHz.

Interfaces configuration

	WAN	LAN	Wi-Fi
NTU-RG-5720L	1 × GPON	4 × 1G	802.11be, 2*2 – 688 Mbps – 2.4 GHz 802.11be, 2*2 – 2882 Mbps – 5 GHz

Features and capabilities

PON interface parameters

- 1 × GPON
- Compliance with ITU-T G.984.2, ITU-T G.984.5 Filter, FSAN Class B+, SFF-8472
- SC/APC connector type
- Transmission media: SMF 9/125 fiber-optic cable, G.652
- Maximum operating distance: 20 km
- Transmitter: 1310 nm DFB Pulse Mode Output Transmitter
 - Data rate: 1244 Mbps
 - Average power output: +0.5..+5 dBm
 - Spectral line width: 1 nm (-20 dB)
- Receiver: 1490 nm APD/TIA CW Mode Digital Receiver
 - Data rate: 2488 Mbps
 - Receiver sensitivity: -28 dBm, BER ≤ 1.0x10⁻¹⁰
 - Receiver optical overload: -8 dBm

LAN interface parameters

- 4 × Ethernet 10/100/1000BASE-T (RJ-45)

Wireless interface parameters

- 802.11a/b/g/n/ac/ax/be standards
- Frequency range 2400 ~ 2483.5 MHz, 5150 ~ 5350 MHz, 5650 ~ 5850 MHz¹
- EasyMesh
- Simultaneous Dual Band
- CCK, BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM, 1024 QAM, 4096 QAM modulations

Operating channels

- 802.11b/g/n/ax/be: 1-13
- 802.11a/n/ac/ax/be: 36-64, 132-165

Data rate²

- 802.11b: 1; 2; 5.5 and 11 Mbps
- 802.11a: 6, 9, 12, 18, 24, 36, 48 and 54 Mbps
- 802.11g: 6, 9, 12, 18, 24, 36, 48 and 54 Mbps
- 802.11n: 300 Mbps (20 MHz channel)
- 802.11ac: 866 Mbps (80 MHz channel)
- 802.11ax: 2402 Mbps (160 MHz channel)
- 802.11be: 2882 Mbps (160 MHz channel)

Maximum power output of the transmitter¹

- 802.11b (11 Mbps): 21 dBm
- 802.11a (54 Mbps): 20 dBm
- 802.11g (54 Mbps): 20 dBm
- 802.11n (MCS0): 21 dBm
- 802.11n (MCS7): 19 dBm
- 802.11ac (MCS9): 18 dBm
- 802.11ax (MCS11): 17 dBm
- 802.11be (MCS13): 16 dBm

Physical specifications

- Dimensions (W × H × D): 225 × 42 × 130 mm, desktop case, wall mounting option
- Power supply: 12 V/1.5 A DC power adapter
- Power consumption: no more than 14 W
- Operating temperature: from +5 to +40 °C
- Relative humidity: up to 80 %

Functional specifications

- TR-069
- Bridge and router (including virtual ones) operation modes
- PPPoE (auto, PAP, MSCHAP and CHAP authorization)
- 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
- UPNP, SMB, FTP/FTP-alg, Print Server
- VLAN in compliance with IEEE 802.1Q
- VPN in L2TP mode
- L2TP over IPSec

Security features

- Rate limits on 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

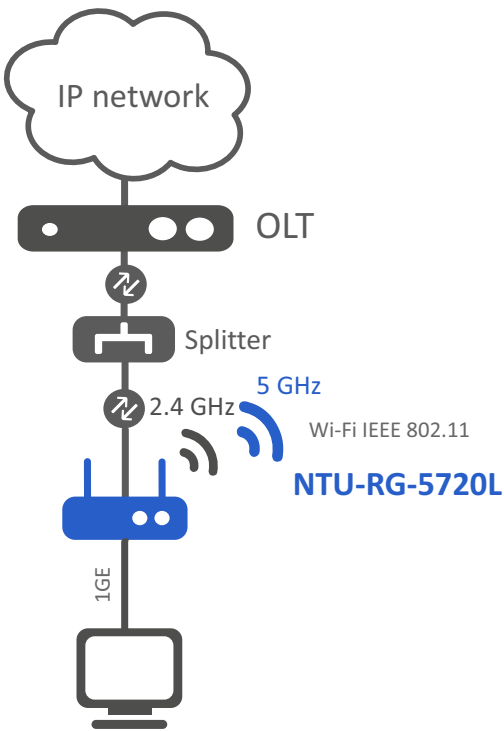
Standards

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

¹ Frequency ranges, number of channels and maximum transmitter power will vary according to the rules of radio frequency regulation in your country.

² The maximum wireless transmission data rate depends on the IEEE 802.11n/ax/be. The real bandwidth can be different. Network operation conditions, environment, traffic volume, building materials and constructions as well as network service data can decrease the real bandwidth and reduce the network coverage radius.

Use case



Ordering information

Name	Description
NTU-RG-5720L	ONT NTU-RG-5720L, 1 × GPON, 4 × LAN 10/100/1000BASE-T, 1 Wi-Fi (802.11be, 2*2 — 688 Mbps — 2.4 GHz + 802.11be, 2*2 — 2882 Mbps — 5 GHz)

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

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Eltex Enterprise is a leading Russian developer and manufacturer of communication equipment with 30 years of history. Complete solutions and their seamless integrability into the Customer's infrastructure are the priority growth areas of the company.