



ONT NTU-RG-5440G-Wac

- 1 GPON port
- 4 LAN Gigabit Ethernet ports
- USB 2.0 port for USB drive or printer connection
- Dual-band Wi-Fi (802.11 a/b/g/n/ac)
- Wi-Fi EasyMesh

NTU-RG-5440G-Wac is a high performance multifunctional subscriber terminal that is designed to access IPTV and OTT services as well as high-speed Internet. Furthermore, NTU- RG-5440G-Wac allows carriers to offer their clients a wide range of services and opportunities to work in a local network.



Provided Services

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

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 requirements in terms of security and data transfer rates

Wireless Connection

NTU-RG-5440G-Wac supports IEEE 802.11ac standard, that provides data rates up to 1733 Mbps and delivers modern high performance services to subscriber equipment through the wireless network. Two integrated Wi-Fi controllers ensure simultaneous dual band operation in 2.4 and 5 GHz.

NTU-RG-5440G-Wac Interfaces Configuration

	WAN	LAN	Wi-Fi	USB
NTU-RG-5440G-Wac	1xGPON	4x1G	802.11n, 2*2 - 300 Mbps - 2.4 GHz 802.11ac, 4*4 - 1733 Mbps - 5 GHz	1 x USB2.0

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
- Receiver:
1490 nm APD/TIA Downstream CW Mode Digital Receiver
 - Data rate: 2488 Mbps

2.4 GHz:

- 802.11b (11 Mbps): 18 dBm
- 802.11g (54 Mbps): 16 dBm
- 802.11n (MCS7): 16 dBm
- 802.11n (MCS0): 18 dBm

Functional Specifications

- Support for TR-069
- «Bridge» and «Router» (including virtual ones) operation modes
- Support for PPPoE (auto, PAP, MSCHAP and CHAP authorization)
- 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

Wireless Module Specifications

- Supported standards: 802.11 a/b/g/n/ac
- Frequency range: 2400 ~ 2483,5 MHz, 5150 ~ 5350 MHz, 5650 ~ 5850 MHz
- Support for EasyMesh
- Simultaneous Dual Band
- CCK, BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM modulation

Operating channels

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

Data rate

- 802.11b: 1, 2, 5.5 and 11 Mbps
- 802.11g: 6, 9, 12, 18, 24, 36, 48 and 54 Mbps
- 802.11n: 300 Mbps (20 MHz channel)
- 802.11ac: 1733 Mbps (80 MHz channel)

Maximum power of the transmitter

5 GHz:

- 802.11ac (MCS7): 18 dBm
- 802.11ac (MCS0): 20 dBm

LAN Interface Parameters

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

Security Functions

- Rate limiting per ports
- FEC coding

Physical Specifications

- Dimensions: 234x133x34 mm,
- Desktop case, possible to mount on the wall
- Power supply: external 12V/2A DC adapter;
- Max. power consumption: 18 W