



GPON ONT NTU-52W Subscriber Terminal

- 1 GPON port
- Gigabit router
- Wi-Fi 802.11 b/g/n

NTU-52W as a high performance multifunctional subscriber terminal designed to access modern telephony, IPTV, OTT services, as well as high-speed Internet. Furthermore, subscriber terminal 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/IP TV, Video on Demand (VoD), video conference
- Online educational and entertainment programs

Application

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

Wireless Connection

NTU-52W subscriber terminal allows connecting Wi-Fi clients via IEEE 802.11 b/g/n standard.

NTU-52W Interface Configuration

	WAN	LAN	Wi-Fi
NTU-52W	1xGPON	1x100M + 1x1G	802.11n, 2*2 – 300 Mbps – 2.4 GHz

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: single-mode optical fiber (SMF): 9/125, G.652
- Maximum operating distance — 20 km
- Transmitter: 1310 nm DFB laser, burst mode
 - Data rate: 1244 Mbps
- Receiver: 1490 nm APD/TIA Downstream digital receiver, CW Mode
 - Data rate: 2488 Mbps

- IEEE 802.11g: BPSK, QPSK, 16QAM, 64QAM, OFDM
- IEEE 802.11n: BPSK, QPSK, 16QAM, 64QAM with OFDM

Physical Parameters and Environment Conditions

- Power supply: 12 V DC, 0.5 A adapter
- Maximum power consumption: 6 W
- Operating temperature range: from +5 to +40 °C
- Operating humidity: up to 80 %
- Dimensions (W × H × D): 147 × 24 × 110 mm
- Weight: 0.25 kg

LAN Interface Parameters

- 1 port of Ethernet 10/100/1000BASE-T (RJ-45)
- 1 port of Ethernet 10/100BASE-T (RJ-45)

Functional Features

- TR-069
- “Bridge” and “Router” (including virtual ones)
- 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)
- QoS (Quality of Service)
- IGMP Snooping & IGMP Proxy
- SMB, FTP-alg, Print Server
- Firewall
- VLAN in accordance with IEEE 802.1Q

Wireless Module Parameters

- Supported standards: 802.11 b/g/n
- MIMO 2x2
- Frequency range: 2400–2483.5 MHz
- Security: WEP, WPA/WPA2

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: from 6.5 to 300 Mbps (from MCS0 to MCS15)

Maximum power of the transmitter

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

Modulation

- IEEE 802.11b: DQPSK, DBPSK, CCK

Security Features

- Rate limiting per port
- FEC coding