

# 4 GE port G/EPON Wi-Fi ONU

## ONU 970/4GESW



- Support Dual mode, can access EPON/ GPON OLTs
- Compliant with IEEE802.11b/g/n/ac
- 4T4R, 4 external antenna 5dBi
- Support MIMO, rate up to 1.167Gbps
- Support full management of HGU functions
- Plug & Play, Auto-Detecting, Auto-Configuration, Auto Firmware Upgrade
- Integrated OAM/ OMCI remote configuration and maintenance function
- Support rich QinQ VLAN functions and IGMP snooping multicast features
- Support NAT, Firewall function
- Support IPv4 and IPv6 dual stack
- Support SIP protocol

Tainet ONU 970/4GESW support Dual mode (EPON and GPON), it can also be applied to a wide temperature environment, good Wi-Fi coverage and has a powerful firewall function.

Tainet ONU 970/4GESW HGU terminal devices are designed for fulfilling FTTH and triple play service demand of fixed network operators. These boxes are based on the mature Chipset (Realtek) technology, which have high ratio of performance to price, and the technology of IEEE802.11b/g/n/ac Wi-Fi, Layer 2/ 3, and high-quality VoIP as well. Support full management of HGU devices. They are highly reliable and easy to maintain, with guaranteed QoS for different service.

Tainet ONU 970/4GESW is fully compliant with technical regulations such as ITU-T G.984.x and IEEE802.3ah.



## Model

- ONU 970/4GESW, 1 x G/EPON, 4 x GE, 1 x POTS, Wi-Fi 5

## PON Interface

- 1 x G/EPON port (EPON PX20+ and GPON Class B+)
- Wavelength: Tx 1310nm, Rx 1490nm
- SC/UPC connector
- Receiving sensitivity  $\leq$  -28dBm
- Transmitting optical power: 0 ~ +4dBm
- Transmission distance: 20KM

## LAN Interface

- 4 x 10/100/1000Mbps auto adaptive Ethernet interfaces, 10/100/1000M Full/Half, RJ45 connector

## POTS Interface

- 1 x RJ11 connector
- Support G.711A, G.711U, G.723, G.729 codec
- Support T.30, T.38, G.711 Fax mode, DTMF Relay

## Wi-Fi Interface

- Compliant with IEEE802.11b/g/n/ac
- 2.4GHz Operating frequency: 2.400 ~ 2.483GHz
- 5.0GHz Operating frequency: 5.150 ~ 5.825GHz
- Support MIMO, 4T4R, 5dBi external antenna, rate up to 1.167Gbps
- Support multiple SSID
- TX power: 11n -- 22dBm/ 11ac -- 24dBm

## USB Interface

- 1 x USB 2.0
- 1 x USB 3.0

## Wi-Fi Service Functions

- Integrated 802.11b/g/n/ac
- Support max 128 users
- Authentication: WEP, WAP-PSK (TKIP), WAP2-PSK (AES)
- Modulation type: DSSS, CCK, OFDM
- Encoding scheme: BPSK, QPSK, 16QAM, 64QAM

## Data Service Functions

- Full speed non-blocking switching
- 2K MAC address table
- 64 full range VLAN ID
- Support QinQ VLAN, 1:1 VLAN, VLAN reusing, VLAN trunk
- Integrated port monitoring, port mirroring, port rate limiting, port SLA
- Support auto polarity detection of Ethernet ports (AUTO MDIX)
- Integrated IEEE802.1p QoS with four level priority queues
- Support IGMP v1/ v2/ v3 snooping/ proxy and MLD v1/ v2 snooping/ proxy
- Support bridge, router, and bridge/router mixed mode

## POTS Service Functions

- Call protocol: SIP (IMS compatible) seamless compatible with all popular call agent
- Integrate heartbeat function and support active/standby call agent
- Voice coding: ITU-T G.711, G.722, G.729, auto-negotiate with call agent
- Echo cancellation exceeding ITU-T G.165, G.168-2002, up to 128ms tail length
- Support high/ low speed fax, bypass fax, T38 fax
- Support high speed MODEM (56Kbps) dial access
- Support RFC2833 and redundant RFC2833, difference rings, MD5 authentication, call forward, call waiting, hot-line call, alarm clock, and all kinds of value-added voice service
- Multi-party conferencing
- IP address assignment: dynamic PPPoE/ DHCP Client and static IP
- Support Web, CLI, IVR, TR069
- Call loss less than 0.01%



Management Mode

- OAM/ OMCI
- Telnet
- Web
- TR069
- Support full management of HGU functions

Power Supply

- DC 12V/ 1.5A
- Power Consumption ≤ 12W

Dimension

- 178 (L) x 120 (W) x 30 (H) mm
- Net weight: 0.42Kg

LED Indicators

- 12 for Status of POWER, LOS, PON, LAN 1 ~ 4, 2.4G, 5.0G, USB 0, USB 1, Phone

Operating Environment

- Operation Temperature: 0°C ~ 50°C
- Storage Temperature: -30°C ~ 70°C
- Humidity: 10% ~ 90% (non-condensing)

