

ONU 86x Series

Passive Optical Network Units



- Full compliance to IEEE 802.3ah specification & OAM function
- Plug and play, integrated auto detecting, auto configuration, and auto firmware upgrade technology.
- Advantage traffic management
- Advanced Dynamic Bandwidth Allocation (DBA)
- Advanced L2 features QinQ VLAN & QoS support
- Support Console/ Telnet/ NMS management interface for ease of operation and maintenance
- Maximum Frame size 9K bytes
- Provides different function on different models include Gigabit Ethernet, SIP VoIP, WiFi or CATV services.

Thank to the increasing popularity of Video-on-Demand (VoD), VoIP and increased IPTV deployment worldwide, the eagerness for bandwidth drives the continuous growth in user bandwidth demands. The ultimate goal of fiber reaching all the way to customer premises to perform FTTH, FTTB, FTTP and FTTC solution is Passive Optical Network technology. Gigabit Ethernet Passive Optical Network (GEPON) access technology defined by IEEE 802.3ah will certainly sustain to provide with up to 1Gbps data rate to residential and business customers.

TAINET's ONU 86x, the Optical Network Termination Units (ONU) designed for fulfilling FTTx and triple play service demand of fixed network operator or cable operators. This box is based on the stable and mature Gigabit EPON technology, which has high ratio of performance via cost, and the technology of Layer 2 or 3, CATV, WDM and high quality VoIP as well. And it is fully compliant with technical regulations such as IEEE802.3ah and technical requirement of EPON Equipment (V2.1 and above version). To guarantee and ensure the performance of data payload, the dynamic bandwidth allocation (DBA) and advanced QOS by Service Level Agreement (SLA) are accurately be controlled and configured.

TAINET GEPON series product with the simple, scalable, and capable characteristics are able to deliver bundled voice, data and video services to an end-user over a single network, and appear to be the best candidate and choice for your next generation access network.



ONU 86x – Optical Network Termination Units (ONU)

- ONU 862: Pure Gigabit Ethernet Solution ONU
- ONU 864: 4 x Fast Ethernet L2 Switch Solution
- ONU 864W: 4 x Fast Ethernet L2 Switch + 2 x POTS + WiFi
- ONU 864C: 4 x Fast Ethernet L2 Switch + 2 x POTS + WiFi + CATV

Interface

- 1 x Optical interface, SC/APC type
- 1 x 10/100/1000 Ethernet interface, RJ45 connectors (ONU 862)
- 4 x 10/100 Fast Ethernet interface, RJ45 connectors (ONU 864)
- 2 x FXS, RJ11 connectors, RJ11 connectors (ONU 864W/864C)
- 1 x External USB port (ONU 864W)
- 1 x CATV interface, SCTE F type (ONU 864C)

RF Port (ONU 854C)

- Support 1550nm wavelength downstream for CATV Service
- CATV receiver with high performance analog PD and low noise RF amplifier at 47~870MHz
- 75Ω female RF output port

Ethernet Layer2 Function

- Full complies with IEEE 802.3ah OAM standard
- Support 2K MAC address table.
- 1Gbps for downstream per PON link
- Support Dynamic Bandwidth Allocation (DBA)
- Support rich QinQ VLAN function and Integrated 1:1 VLAN, VLAN reusing, VLAN trunk (64 full range VLAN ID)
- Support 802.1P priority queue
- Support IGMP snooping multicast feature
- Provide dying gasp function
- Support port monitoring, port mirroring, port rate limiting, port SLA
- Support auto polarity detection of Ethernet ports (AUTO MDIX)
- Fully compatibility with OLT based on Broadcom/PMC/Cortina chipset.

Wireless LAN (ONU 854W, 854C)

- Compliant with IEEE802.11b/g/n, 300Mbps, 2T2R one internal antenna and one external antenna.

System Management

- Managing via OLT
- Support SNMP v1/v2
- Independent WEB configuration

Voice Function (ONU 864W, 864C)

- SIP Transport Protocol (UDP/TCP)
- Codec: G.711a/u, G.723.1, G.726, G.729
- Echo cancellation
- Dial Plan
- Advanced calling features: Call hold /Waiting /Forwarding/Transfer...etc.
- Advanced digitmap & manipulation dialing
- DTMF support in-band & out-band relay (RFC-2833) & SIP INFO
- T.38 FAX
- In/Outgain value adjust
- More timer adjust

Power Supply & Consumption

- (ONU 862) +12V/0.5A, external AC-DC power adaptor ≤3W
- (ONU 864) +12V/0.5A, external AC-DC power adaptor ≤ 5 W
- (ONU 864W) +12V 1/1.5A, external AC-DC power adaptor ≤10W
- (ONU 864C) +12Vdc, 2A, external AC-DC adapter ≤10W

Dimension

- 115(W) x 75(D) x 28(H) mm (ONU 862)
- 160(W) x 115(D) x 32(H) mm (ONU 864)
- 185(W) x 135(D) x 45(H) mm (ONU 864W)
- 240(W) x 150(D) x 37(H) mm (ONU 864C)

Operating Environment

- Operation Temperature: -5 °C ~ 55 °C
- Storage Temperature: -30 °C ~ 60 °C
- Humidity: 5~90%, non-condensing

