

## ISCOM HT803-W GEPON Optical Network Unit

ISCOM HT803-W is a cost-efficient GEPON HGU Optical Network Unit device, which is designed indoor home gateway ONT to access residential and SOHO subscribers into PON network, it provides data, voice over IP network, Wi-Fi function with IEEE 802.11b/g/n compliant for wireless router accessing and convenient USB2.0 home network storage and file-sharing services.

ISCOM HT803-W provides one single strand PON interface, 1\*10/100/1000M and 3\*10/100M Ethernet interface for accessing subscriber's gateway or computer, 2\*POTS interface for connecting analog phones and WLAN transmission rate up to 300 Mbps, can support max 16\*4 terminal users for connecting. Together with Raisecom OLT device, as home gateway terminal device which provides NAT, firewall, high-speed forwarding, 802.11b/g/n wireless, UPnP, DHCP, PPPOE and other gateway functions, can be remotely managed, monitored, fault diagnosis and performance statistics via Web GUI interface, Nview NNM system and OAM protocol.

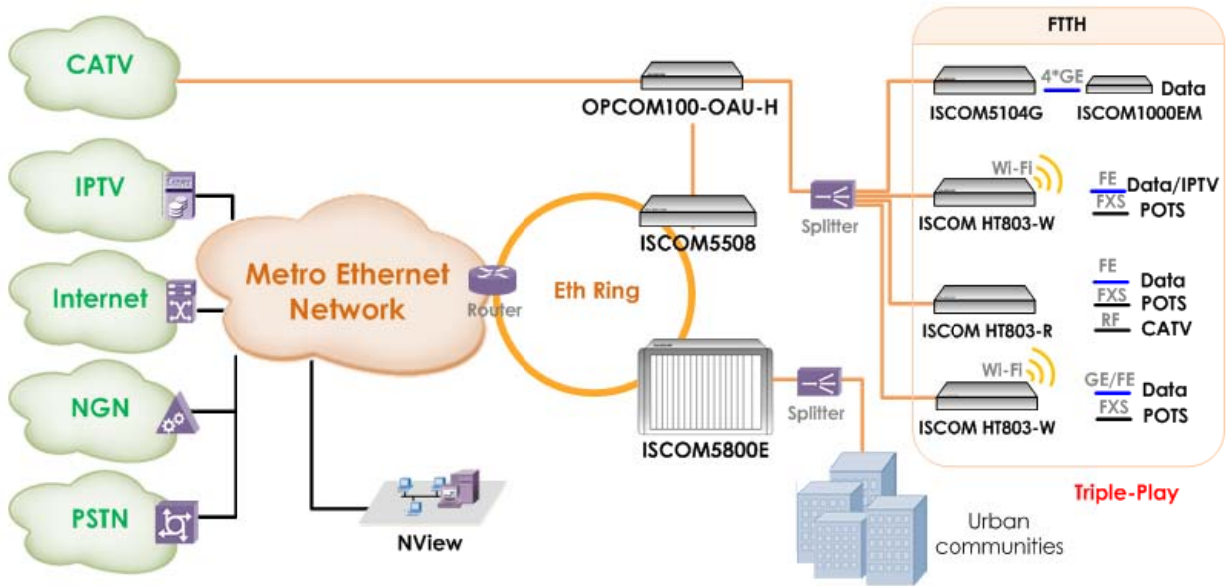


ISCOM HT803-W

### Highlights

<b>Wireless</b>	WLAN with high-speed data transfer rate of up to 300 Mbps, Compatible with IEEE 802.11b/g/n, 2.4 GHz compliant equipment. Transmission distance. 100 meters outdoors, 60 meters Indoors coverage area
<b>Plug and Play</b>	Based on automatic discovery and configuration of ONU "Plug and Play" Support the pre-deployment for configuration data
<b>Link diagnostic</b>	Optical link measurement and diagnostic on PON network Support the power supply of optical module shutdown function
<b>Multiform Management</b>	Web-based GUI TR-69 with TR-98, TR-104 GUI independent NMS user-friendly interface IEEE802.3ah standard OAM, extended OAM Date/time update from SNTP Internet Time Server
<b>Configuration Management</b>	Support offline pre-configuration, batch configuration Support configuration file save, upload, download and restore the default configuration

### Typical Application



**High-density Triple-play HGU services with Wireless accessing for residential areas**

## Key Features

Forwarding mode	Store and Forward
Max frame size	68-1500Bytes
Security	Bi-directional AES-128 encryption, triple churning
Port rate limitation	Rate-limiting and PON interface, 64K~1M bps increments
Flow control	IEEE802.3x in full duplex, back pressure in half duplex
MAC address table	2K MAC addresses MAC address learning ability, aging time, static MAC address set
VLAN	IEEE802.1q68(4*16+4) VLANID, range 1~4094 IEEE802.1ad standard
IPTV function	Support IPTV mode configuration including SDTV and HDTV
Multicast	IGMP Snooping V1/V2/V3, Transparent, multicast address capability 32
QoS	Up to 4 output queues Strict Priority forwarding(SP) scheme Weighted round robin(WRR)
ACL	Support L2 - L4 packet filtering, classify, attemp and L7 URL filter
Port isolation	Support different Ethernet ports intercommunication enable or disable protecting the ports
DHCP & PPPoE	DHCP Snooping, DHCP Relay



**Wireless Features**

- WLAN with high-speed data transfer rate of up to 300 Mbps
- Compatible with IEEE 802.11b/g/n, 2.4 GHz compliant equipment
- Support multiple SSIDs
- Support STA mutual isolation
- Wireless security function: wireless, 64/128bit WEP, 802.1x, WPA, WPA2
- Support wireless channel numbers: 1-13

**Home Gateway & Router**

- Support UPnP, NAT
- DHCP Server, DHCP Client, PPPoE Client
- Virtual Server, IP/ MAC Address Filter and DMZ Host function
- TCP, UDP, ICMP protocol
- Support IP routing, source and destination routing
- Static and rip protocol
- Support UPnP, NAT and NAPT, DMZ, IP QoS
- Support dynamic DHCP get IP address, WAN IP address via OLT
- Support the anti-DoS attacks
- Network Diagnostic

**VoIP Features**

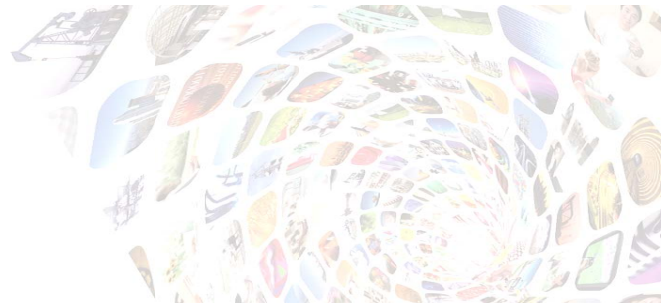
- Support SIP, Dialing Plan
- Support DTMF secondary dial function
- Supports Fax, G.711 Pass-Through
- Value-added services to support caller ID service, call waiting, call hold
- Voice supplementary services CLIP, CLIR, Call Forwarding, Call Transfer
- Support echo cancellation, automatic gain control, silence suppression, comfort noise generation

## Specifications

<b>GEPON Interface</b>	<ul style="list-style-type: none"> <li>1 GEPON interface,1000BASE-PX20+</li> <li>SC/PCconnector</li> <li>1310nm burst receive</li> <li>1490nm continuous transmit</li> <li>Symmetric 1.25Gbps</li> <li>20km distance</li> <li>Split ratio: Max. 1:64</li> </ul>
<b>Ethernet Interface</b>	<ul style="list-style-type: none"> <li>1*3*10/100/1000M+3*10/100M</li> <li>auto-negotiation</li> </ul>

## Compliances

<b>Standards &amp; protocols</b>	<ul style="list-style-type: none"> <li>IEEE802.3</li> <li>IEEE802.3ah</li> <li>IEEE802.3u</li> <li>IEEE802.3ab</li> <li>IEEE802.3z</li> <li>IEEE802.3x</li> <li>IEEE802.1p</li> <li>IEEE802.1Q</li> </ul>
----------------------------------	---



	RJ45 connector
	Full/half duplex mode
	Auto MDI/MDI-X
	100m distance
Dimension	220(W)*44(H)*185(D) mm
Weight	< 1.5kg
Power supply	External 12V/1A power supply adapter AC input: 100V~240V AC
Power	≤ 12.6W (at max load)
Consumption	
Wifi Antenna Power	100mW
Working environment	Temp: 0~40 centigrade RH: 10~95% non-condensing
Storage environment	Temp: -40~70 centigrade RH: 5~95% non-condensing

## Ordering Information

ISCOM HT803-W	Optical Network Unit of GEPON system, provides 1*1.25 GEPON interface for uplink, 1*10/100/1000M and 3*10/100M Auto MDI/MDIX RJ45 ports, 1*USB2.0 Host port, 802.11 b/g/n wireless LAN (4 SSIDs) and 2*FXS ports.
---------------	---

## Appendix Specification of PON interface

Optical Connector	Wavelength (nm)	Rx sensitivity (dBm)	Tx Power (dBm)	Typical distance (km)	Overload point (dBm)
SC/PC	1310	>-27	-1~+4	20	>-3dBm