ISCOM HT803G-W GPON home terminal

▼ Introduction

The ISCOM HT803G-W is a GPON uplink home gateway. It provides four GE interfaces, two FXS voice interfaces, and one USB interface, and supports WLAN. It is applicable to FTTH scenarios, with appearance as below.

▼ Features

➢ Elegant appearance, low power consumption, and good heat dissipation

➢ Compliant with ITU-T G.984/G.988 and China communication industrial standards

➢ Highly cost-effective, widely applicable to FTTH networking

➢ Integrated with GPON ONU, WLAN AP, IAD, LAN switch, and router features, thus able to provide users with data, voice, and video services all in one.

➢ Passing carriers' internetworking test and centralized procurement test, with guarantee for internetworking with OLTs of other vendors

▼ Specifications

Hardware features	
Dimensions	174 mm (Length) ×129 mm (Width) ×38 mm (Height)
Weight	< 0.4 kg
Power consumption	≤ 18 W
Power adapter input	100–240 VAC (50/60 Hz)
Power adapter output	12 VDC, 2 A
Operating temperature	0–50 ℃
Operating humidity	10%–93% (non-condensing)
Software features	
Data	The ONU provides four 10/100/1000 Base-T Ethernet interfaces, with the following features: • Ethernet auto-negotiation and auto-MDI/MDIX • IEEE 802.11b/g/n WLAN interface • Embedded with Layer 2 switching • Embedded with Layer 3 router and home gateway • Advanced data functions, such as processing VLAN Tags, traffic classification, and packet filtering • USB 2.0 Flash
Video	• 2 video services: video stacking and data delivering (through unicast and multicast) • IGMP Snooping and further application optimization: when IGMP Snooping is enabled, the ISCOM HT803G-W can purposely choose to send multicast data streams upon detection of a member joining and leaving the multicast group.
Voice	• Multiple voice coding schemes • Echo cancellation, VAD, and CNG • Static or dynamic jitter buffer • Various classified services: CID, call waiting, call forward, and call transfer. • SIP (RFC3261) and H.248 (MEGACO v2) voice protocols • Common structure and easy replacement. If VoIP access is enabled, the ONT, through the Ethernet interface, supports connecting to the addiction box of the external network.

OAM	• OMCI management and configuration, G984.4/G988 standards, and China Telecom GPON technical specifications. • OLT management and local Web management • Interface Up/Down and power failure alarms • Thresholds of optical module status parameters and query of the current value • Various services, including Ethernet, WLAN, VoIP, and RF • Alarm and performance monitoring • Mirror-downloading, activating, and restarting software remotely through the OLT • 2 software mirroring inventories, and checking software integrity

IP routing and firewall	• Multiple WAN interfaces
	• WAN connection
	  – PPPoE
	  – DHCP
	  – Static configuration
	• DHCP Server
	• DHCP Relay
	• NAT
	• NAPT
	• Interface forwarding, static route, ALGs, UPnP, firewall, DMZ, DDNS, NTP, and IGMP Proxy

Ethernet bridge	• Wire-speed forwarding • Hardware-based priority queues support CoS in both the uplink and downlink. • IEEE 802.1q virtual switching • IEEE 802.1d bridge • Up to 2K MAC addresses and 4K VLAN groups • Up to 256 multicast groups • Adding/Removing VLAN tag to/from packets of the Ethernet interface • Mapping from IP ToS/DSCP to IEEE 802.1p • CoS based on UNI, VLAN-ID, 802.1p bit, and ToS/DSCP • IEEE 802.1p marking and remarking • IGMPv1/v2 Snooping • Rate limiting on broadcast/multicast packets • MAC address limit

Interface attributes	
GPON interface	- Interface type (SMF): SC/APC for the PON interface - Transmission rate: 1.25 Gbit/s in the uplink and 2.5 Gbit/s in the downlink - Central wavelength: 1310 nm for Tx and 1490 nm for Rx - Tx optical power: 0–4 dBm - Maximum Rx sensitivity: -28 dBm - Overloading optical power: -8 dBm
GE interface	10/100/1000Base-T RJ45 Ethernet interface - Auto-negotiation or manual configuration of the Ethernet interface - Auto-MDI/MDIX
WLAN	- IEEE 802.11b/g/n 2.4 GHz - MIMO: 2×2 - Multiple SSIDs 64-bit and 128-bit WEP - WPA and WPA-PSK - WPS for WiFi switching
POTS interface	- RJ-11 interface - Balanced ringing, 55 V RMS - DTMF dialup - Multiple coding schemes - G.711 (μ-law and A-law) - G.729 (A and B) - G.723.1 - Echo cancellation - VAD and CNG - SIP (RFC3261) - SDP (RFC2327) - RTP (RFC3550/3551) - RFC2833 DTMP coding or SIP INFO method - Multiple classified services, CID, call waiting, call forwarding, call transfer, call switching, three-way calling, classified ringing - G.711 faxes, modem, and TTY devices - T.38 fax - Configurable dial-up plan - Configurable rings for different countries - DHCP Client and static IP address

▼ Typical applications

Networking description

➢ Use the ONU directly in the user's home.

➢ Use the high-capacity and high-density ISCOM6800 to access huge services

➢ The ODN design adopts thin coverage, with a high cost in the early phase

➢ Actual installation rate is the key to profit.

➢ Provide high-bandwidth services for users and support various emerging services

➢ The ONU supports offline configurations, plug and play, thus able to speeding up service activation.

➢ Various means for locating faults (broken fiber, power failure, and loop)

➢ Guarantee user experiences, improve renewal rate, and increase customer profit.

Ordering information

Model	Version	Description
ISCOM HT803G-W-05	T.00(GJ01)	One GPON interface, four 10/100/1000 Mbit/s Ethernet electrical interfaces, two FXS voice interfaces, one USB interface, WLAN, and American power adapter
ISCOM HT803G-W-07	T.00(GJ01)	One GPON interface, four 10/100/1000 Mbit/s Ethernet electrical interfaces, two FXS voice interfaces, one USB interface, WLAN, and European power adapter
ISCOM HT803G-W-08	T.00(GJ01)	One GPON interface, four 10/100/1000 Mbit/s Ethernet electrical interfaces, two FXS voice interfaces, one USB interface, WLAN, and Brazilian power adapter

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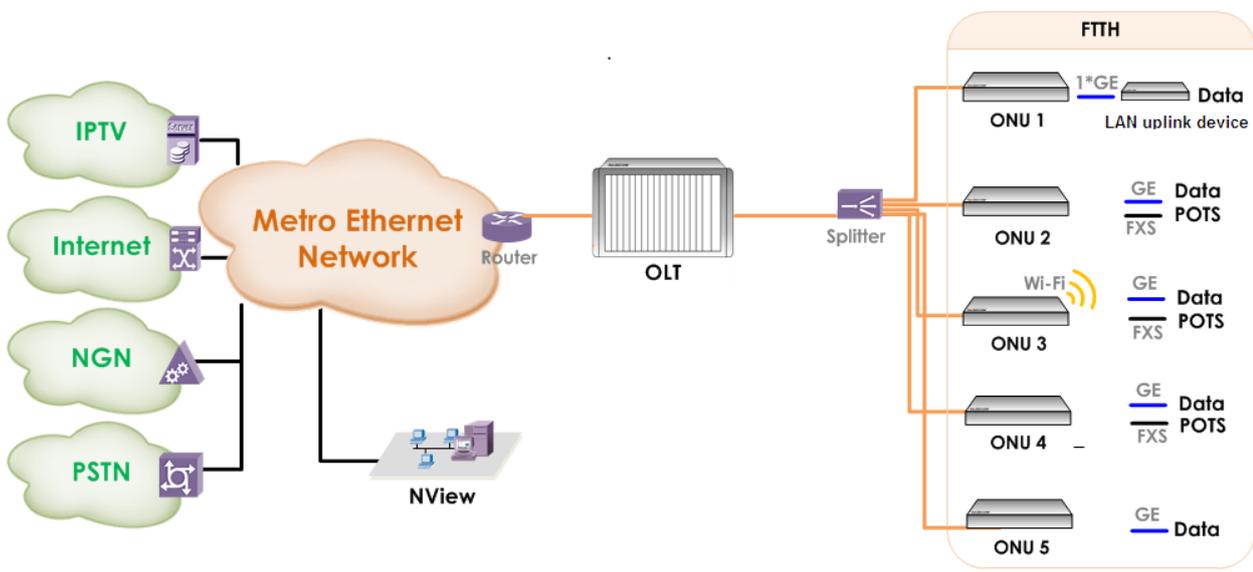
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