RAISECOM
Raisecom Technology Co., Ltd

ISCOM HT803G-1GE GPON home terminal

▼ Introduction

The ISCOMHT803G-1GE, designed by Raisecom for FTTH, is a new-generation home GPON terminal with plastic shell. It provides a 1000 Mbit/s LAN interface, which can be connected to a PC, to provide data Internet access of high bandwidth. Featuring small size and low weight, it facilitates deployment in a splice box and network expansion and reconstruction. It adopts 12 VDC power, with low power consumption and environmental protection feature. Its appearance is as below:

ISCOM HT803G-1GE

▼ Features

➢ Feature small size, attractive appearance, and low weight, thus applicable to home use.

➢ Comply with ITU-T G.984/G.988 and China telecom standards.

➢ Feature low price, thus able to lower cost on constructing FTTH network for a single user and applicable to massive deployment.

➢ Support being preconfigured for different groups of users, thus able to plug and play upon home installation and facilitate service activation, operation, and maintenance.

➢ Pass carriers' internetworking test and concentrated purchase test, thus able to internetwork with other vendors' OLT.

▼ Specifications

Physical features	
Dimensions	108 mm (Length) ×88 mm (Width) ×31 mm (Height)
Weight	0.2 kg
Maximum power consumption	< 3 W
Input of power adapter	100–240 VAC (50/60 Hz)
Output of power adapter	12 VDC, 0.5 A
Operating temperature	0–50 ℃
Operating humidity (RH)	10%–93% (non-condensing)
Altitude	≤ 5000 m
Software features	
GPON	• Support ITU-T G.984.x (1, 2, 3, and 4) and G.988. • Support 8 T-CONTs and 32 GEMs. • Support multiple authentication modes, such as SN, password, and LOID. • Support DBA of the OLT. • Support silence, with the time of 60s. • Support AES-128 encryption.
Ethernet interface	• Support 10/100 Mbit/s auto-negotiation and 1000 Mbit/s full duplex and flow control. • Support statistics of unicast packets, multicast packets, and broadcast packets on the interface. • Support configuring MTU to 1518–2030, with the MTU being 1518 by default. • Support interface-based storm control over DLF packets, unknown multicast packets, and broadcast packets.
MAC address	Support MAC addressing learning and aging.
Loop detection	• Support shutting down an interface and sending a link down trap when a loop occurs on the interface. • Support restoring an interface and sending a link up trap when a loop is eliminated on the interface.
VLAN	• Support IEEE 802.1Q. • Support CTC VLAN modes: transparent transmission, Tag, Trunk, and mapping.
QoS/ACL	• Support classifying Layer 2 traffic by matching fields, such as the destination MAC address, source MAC address, VLAN ID, and CoS. • Support classifying Layer 3 traffic by matching fields, such as the destination IP address, source IP address, and type of IP protocol.

	• Support configuring actions for traffic classification based on QoS or ACL. • Support SP, WRR, or WDRR queue scheduling.
Multicast	• Support IGMP Snooping. • Support configuring multicast VLANs. • Support multicast immediate leave.
Maintenance and management	• Support OMCI management and ITU-T G.984/G.988 and China telecom standards. • Support OLT management and Web management. • Support interface Up/Down alarms, and power failure alarm. • Support configuring and querying thresholds of optical module parameters.
GPON interface parameters	
Standard	ITU-T G.984/G.988
Rate	• Uplink: 1.25 Gbit/s • Downlink: 2.5 Gbit/s
Transmission distance	≤ 20 km
Interface type	SC/PC
Cable type	Single-mode fiber
Central wavelength	• Tx: 1310 nm • Rx: 1490 nm

RAISECOM
Raisecom Technology Co., Ltd

Networking highlights

➢ Use the ONU at home directly.

➢ Use the high-capacity and high-density ISCOM6800 to access services of massive ONUs.

➢ Actual installation rate is the key to profit.

➢ Provide users with high bandwidth and support various new services.

➢ The ONU supports being configured offline and plug and play, thus speeding up service activation.

➢ Provide various methods for locating faults (fiber breakage, power failure, and loops).

➢ Guarantee user experience, improve user rate renewal, and increase customer's profit.

Ordering information

Model	Version	Description
ISCOM HT803G-1GE-05	T	GPON uplink, single GE interface, plastic-shell SFU, American power adapter
ISCOM HT803G-1GE-07	T	GPON uplink, single GE interface, plastic-shell SFU, European power adapter

International Headquarters

Raisecom Building, No. 11, East Area, No. 10 Block, East Xibeiwang Road, Haidian District, Beijing, 100085, China

Tel: +86 10 8288 3305

Fax: +86 10 8288 3056

Email: export@raisecom.com

U.S.A. Headquarters

19337 US 19 North, Suite 306

Clearwater, Florida. 33764. USA.

Tel: +1 888 816 4808

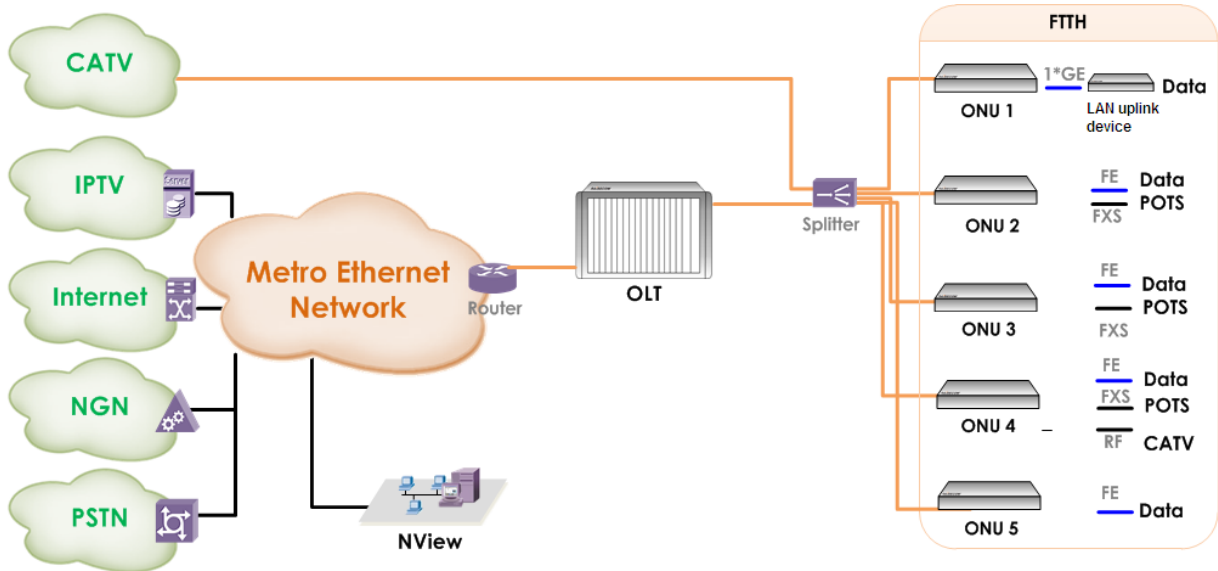Fax: +1 727 547 9124

Email: sales@raisecomusa.com