

ISCOM HT803G GPON Home Terminal

▼ Introduction

ISCOM HT803G from Raisecom, is an all-data ONU. It provides 1 GPON uplink and 4 GE interfaces, meeting uplink and downlink bandwidth requirements in the PON+LAN scenarios. The box enables digital family with popular devices/services such as SOHO/IPTV/OTT connected to internet. It enriches people's life and business possibilities of our world as results.

The ISCOM HT803G adopts a plastic shell and an external power adapter, the appearance shown as below:



ISCOM HT803G

▼ Features

- Provide 4 GE interfaces, thus meeting uplink and downlink bandwidth requirements in the PON+LAN scenario
- Adopt a plastic shell and an external power adapter, thus making it look elegant in outlook.
- Comply with ITU-T G.984/G.988 standards.
- Provide 1.25 Gbit/s uplink bandwidth, 2.5 Gbit/s downlink bandwidth, and powerful QoS features, thus meeting bandwidth requirements for various services.
- Provides 4 VLAN modes (transparent transmission, Tag, Trunk, and mapping) and 2 multicast modes (IGMP Snooping and controllable multicast), thus meeting broadband and live streaming services.
- Support multiple management modes (Telnet, Web, Console, and OMCI), and uniform NMS, thus facilitating device management and maintenance.
- Support batch configurations, offline configurations, profile configurations, and plug and play of the ONU, thus accelerating service activation.
- Provide various LEDs on the panel to indicate the device status.
- Support reporting various alarms (Dying Gasp, optical module DDM, and loop), thus facilitating fault location and clearance.

International Headquarters

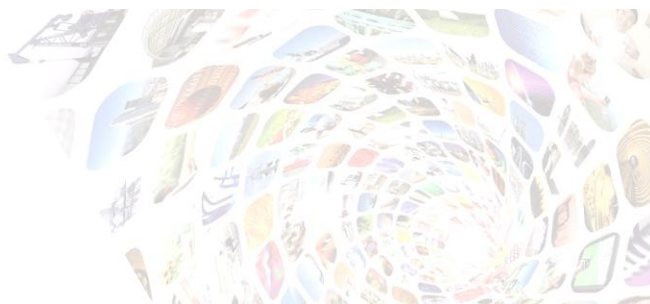
East-11, Raisecom Building, No.10 Xibeiwang East Road,
Haidian District, Beijing, 100094, China
Tel: +86 10 8288 3305
Fax: +86 10 8288 3056
www.raisecom.com

U.S.A. Headquarters

Raisecom, Inc. – U.S. HQ, Florida
Email: sales@raisecominc.com
Tel: 1-888-816-4808
Address: 3031 North Rocky Point Drive West Suite
100, Tampa, Florida 33607 USA

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▼ Specifications

Physical features	
Dimensions(mm)	140 × 105× 33 (Length, Width, Height)
Weight	< 0.3 kg
Maximum power consumption	< 5 W
Power supply	12 VDC, 1 A
Operating temperature	0–50°C
Operating humidity (RH)	10%–93% (non-condensing)
Software features	
GPON	• Support ITU-T G.984.x (1, 2, 3, and 4) and G.988. • Support 32 T-CONTs and 128 GEMs. • Support multiple authentication modes with the OLT, 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.

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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 WFQ 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 GPON technical specifications. - 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/APC
Cable type	SMF
Central wavelength	- Tx: 1310 nm - Rx: 1490 nm

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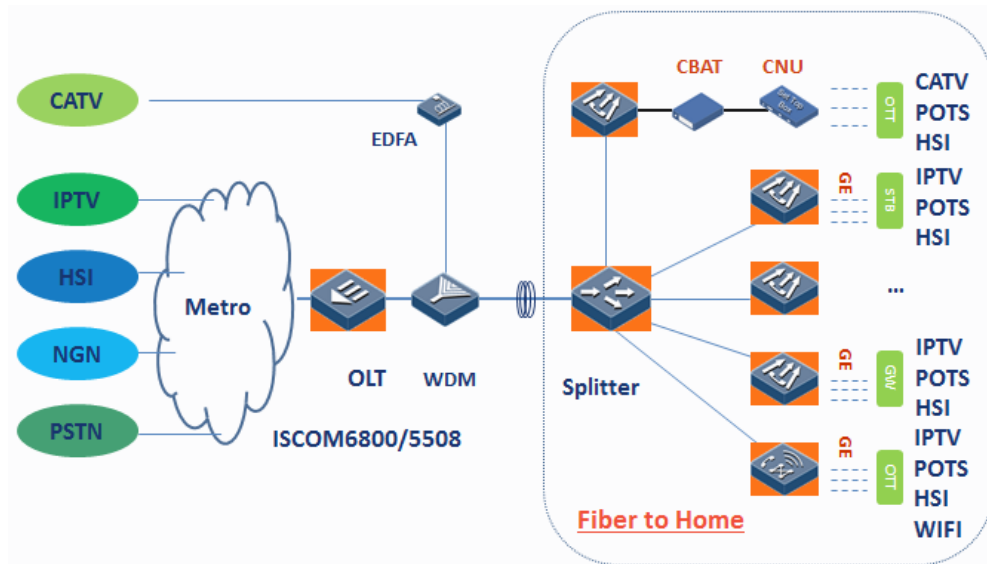
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▼ Typical application



Networking Highlights

- Accelerating the FTTH network deployments.
- Raisecom end to end solutions by ISCOM OLT and ONUs.
- Configuration offline and plug and play, thus speeding up service provision.
- Various ways for faults location (fiber breakage, power failure, and loops).
- Good user experience and price competitive

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Ordering information

Model	Version	Description
ISCOM HT803G	T.00	1 GPON interface, 4 GE electrical interfaces, SC/APC optical interface, plastic-shell, 12 VDC/1 A, external American power adapter

◆ The ONTs can be ordered with : European, American, Argentine, UK and Brazilian adaptor

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