

## 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:



### ▼ Features

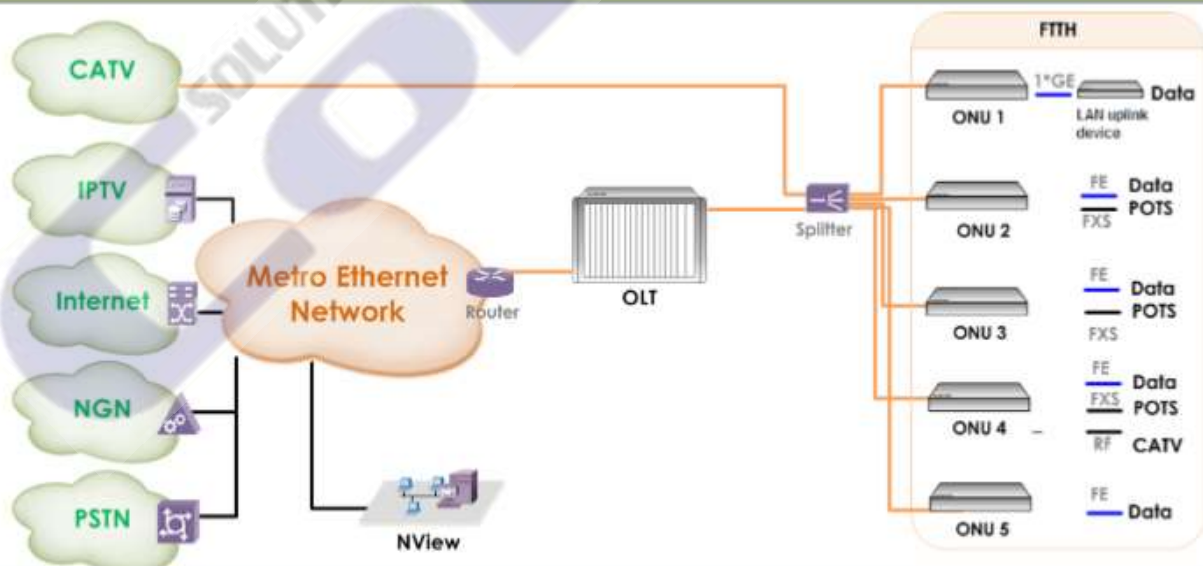
- Feature small size, attractive appearance, and low weight, thus applicable to home use.
- Comply with ITU-T G.984/G.988 and China telecom standards.
- Feature low price, thus able to lower cost on constructing FTTH network for a single user and applicable to massive deployment.
- Support being preconfigured 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°C
Operating humidity (RH)	10%–93% (non-condensing)
Altitude	≤ 5000 m
Software features	
GPON	<ul style="list-style-type: none"> <li>• Support ITU-T G.984.x (1, 2, 3, and 4) and G.988.</li> <li>• Support 8 T-CONTs and 32 GEMs.</li> <li>• Support multiple authentication modes, such as SN, password, and LOID.</li> <li>• Support DBA of the OLT.</li> <li>• Support silence, with the time of 60s.</li> <li>• Support AES-128 encryption.</li> </ul>
Ethernet interface	<ul style="list-style-type: none"> <li>• Support 10/100 Mbit/s auto-negotiation and 1000 Mbit/s full duplex and flow control.</li> <li>• Support statistics of unicast packets, multicast packets, and broadcast packets on the interface.</li> <li>• Support configuring MTU to 1518–2030, with the MTU being 1518 by default.</li> <li>• Support interface-based storm control over DLF packets, unknown multicast packets, and broadcast packets.</li> </ul>
MAC address	Support MAC addressing learning and aging.
Loop detection	<ul style="list-style-type: none"> <li>• Support shutting down an interface and sending a link down trap when a loop occurs on the interface.</li> <li>• Support restoring an interface and sending a link up trap when a loop is eliminated on the interface.</li> </ul>
VLAN	<ul style="list-style-type: none"> <li>• Support IEEE 802.1Q.</li> <li>• Support CTC VLAN modes: transparent transmission, Tag, Trunk, and mapping.</li> </ul>
QoS/ACL	<ul style="list-style-type: none"> <li>• Support classifying Layer 2 traffic by matching fields, such as the destination MAC address, source MAC address, VLAN ID, and CoS.</li> <li>• Support classifying Layer 3 traffic by matching fields, such as the destination IP address, source IP address, and type of IP protocol.</li> </ul>

	<ul style="list-style-type: none"> <li>Support configuring actions for traffic classification based on QoS or ACL.</li> <li>Support SP, WRR, or WDRR queue scheduling.</li> </ul>
Multicast	<ul style="list-style-type: none"> <li>Support IGMP Snooping.</li> <li>Support configuring multicast VLANs.</li> <li>Support multicast immediate leave.</li> </ul>
Maintenance and management	<ul style="list-style-type: none"> <li>Support OMCI management and ITU-T G.984/G.988 and China telecom standards.</li> <li>Support OLT management and Web management.</li> <li>Support interface Up/Down alarms, and power failure alarm.</li> <li>Support configuring and querying thresholds of optical module parameters.</li> </ul>
<b>GPON interface parameters</b>	
Standard	ITU-T G.984/G.988
Rate	<ul style="list-style-type: none"> <li>Uplink: 1.25 Gbit/s</li> <li>Downlink: 2.5 Gbit/s</li> </ul>
Transmission distance	≤ 20 km
Interface type	SC/PC
Cable type	Single-mode fiber
Central wavelength	<ul style="list-style-type: none"> <li>Tx: 1310 nm</li> <li>Rx: 1490 nm</li> </ul>

▼ Typical application



#### 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