



# ISCOM HT803G GPON optical access terminal

## Introduction

The ISCOM HT803G, designed by Raisecom for FTTx, is an all-data ONU. It provides 1 uplink GPON optical interface and 4 downlink GE interfaces, thus meeting uplink and downlink bandwidth requirements in the PON+LAN scenario. At present, sharing one ONU (1Gbit/s bandwidth) by multiple users can reduce construction difficulties and maintenance cost and improve ARPU.

The ISCOM HT803G adopts a plastic shell and an external power adapter, thus featuring small size and low weight.



## 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.

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> Support reporting various alarms (Dying Gasp, optical module DDM, and loop), thus facilitating fault location and clearance.

# Specifications

Physical features				
Dimensions	140 mm (Length) ×105 mm (Width) ×33 mm (Height)			
Weight	< 0.3 kg			
Maximum power consumption	< 5 W			
Power supply	12 VDC, 1 A			
Operating temperature	0–50 ℃			
Operating humidity (RH)	10%–93% (non-condensing)			
Altitude	≤ 5000 m			
Software features				
GPON	<ul> <li>Support ITU-T G.984.x (1, 2, 3, and 4) and G.988.</li> <li>Support 32 T-CONTs and 128 GEMs.</li> <li>Support multiple authentication modes with the OLT, 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> <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> <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</li> </ul>			

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	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 WFQ queue scheduling.		
Multicast	Support IGMP Snooping.		
	Support configuring multicast VLANs.		
	Support multicast immediate leave.		
	Support OMCI management and ITU-T G.984/G.988 and China		
	telecom GPON technical specifications.		
Maintenance and management	Support OLT management and Web management.		
Transcolaree and 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	SMF		
Central wavelength	• Tx: 1310 nm		
C	• Rx: 1490 nm		

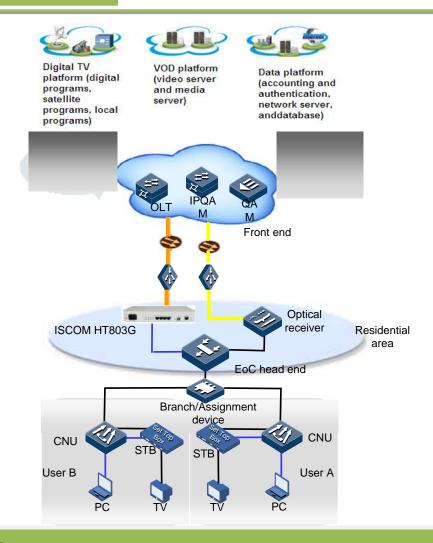
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# Typical application



## **Networking highlights**

- The ISCOM HT803G is installed in the corridor of residential buildings. It is connected upstream to the OLT and downstream to the EoC head end.
- The EoC head end is connected upstream to the optical receiver and downstream to EoC terminals (CNU) of multiple users through the coaxial cable and branch/assignment device.
- > The Ethernet interface and RF interface on the CNU can be connected to the PC and STB respectively.
- When a user is surfing on the Internet or demanding a video program, data streams are forwarded through a path of OLT-ONU-EoC head end-CNU-PC/STB.
- When a user is watching a TV program, TV data are forwarded through a path of IPQAM-optical receiver-CNU-STB-TV.

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Model	Version	Description
ISCOM HT803G-05	T.00(GJ01)	1 GPON interface, 4 GE electrical interfaces, SC/APC optical interface,
		plastic-shell, 12 VDC/1 A, external American power adapter
ISCOM HT803G-07	T.00(GJ01)	1 GPON interface, 4 GE electrical interfaces, SC/APC optical interface,
		plastic-shell, 12 VDC/1 A, external European power adapter
ISCOM HT803G-08	T.00(GJ01)	1 GPON interface, 4 GE electrical interfaces, SC/APC optical interface,
		plastic-shell, 12 VDC/1 A, external Brazilian power adapter

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