

# ISCOM HT803-1GE EPON home terminal

## ▼ Introduction

The ISCOMHT803-1GE, designed by Raisecom for FTTH, is a new-generation home EPON 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 HT803-1GE

## ▼ Features

- Feature small size, attractive appearance, and low weight, thus applicable to home use.
- Comply with IEEE 802.3ah and China telecom standards.
- Support multiple management modes, such as EMS and Web access, and provide abundant alarms, thus able to reduce time for locating faults and lower maintenance cost.
- 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.

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▼ 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	
EPON	<ul style="list-style-type: none"> <li>• Support the OLT in physical, logical, and hybrid authentication.</li> <li>• Support distance measurement by the OLT.</li> <li>• Support DBA of the OLT.</li> <li>• Support triple churning encryption.</li> <li>• Support optical link DDM and related alarms.</li> <li>• Support controlling the Tx power of optical modules.</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 rate limiting in the ingress or egress direction of 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> <li>• Support configuring storm control threshold based on interface.</li> </ul>
MAC address	<ul style="list-style-type: none"> <li>• Support MAC addressing learning and aging.</li> <li>• Support configuring the aging time of MAC addresses.</li> <li>• Support configuring the MAC address limit.</li> <li>• Support querying and deleting MAC addresses and adding MAC addresses.</li> </ul>
Loop detection	<ul style="list-style-type: none"> <li>• Support enabling/disabling loop detection.</li> <li>• Support detecting inner loops, self-loops, and outer loops, and reporting alarms.</li> </ul>
VLAN	<ul style="list-style-type: none"> <li>• Support IEEE 802.1Q.</li> <li>• Support 4094 concurrent VLANs.</li> <li>• Support CTC VLAN modes: transparent transmission, Tag, Trunk, and</li> </ul>

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	<p>mapping.</p> <ul style="list-style-type: none"> <li>• Support IEEE 802.1ad VLAN Stacking.</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, CoS, and Ethernet type.</li> <li>• Support classifying Layer 3 traffic by matching fields, such as the destination IPv4 address, source IPv4 address, type of IP protocol, and DSCP.</li> <li>• Support classifying Layer 4 traffic by matching fields, such as the source TCP port, destination TCP port, source UDP port, and destination TCP port.</li> <li>• Support configuring actions for traffic classification based on QoS or ACL.</li> <li>• Support SP or SP+WFQ queue scheduling.</li> </ul>
Multicast	<ul style="list-style-type: none"> <li>• Support IGMP/MLD Snooping, transparent transmission of multicast packets, and controllable multicast packets.</li> <li>• Support configuring multicast VLANs.</li> <li>• Support multicast immediate leave.</li> </ul>
DHCP	<ul style="list-style-type: none"> <li>• Support enabling/disabling DHCP Snooping</li> <li>• Support DHCP Option 82.</li> </ul>
PPPoE	Support PPPoE Relay.
Maintenance and management	<ul style="list-style-type: none"> <li>• Support OLT management and Web management.</li> <li>• Support interface Up/Down alarms.</li> <li>• Support querying memory utilization and CPU utilization.</li> </ul>
<b>EPON interface parameters</b>	
Standard	IEEE 802.3ah
Rate	<ul style="list-style-type: none"> <li>• Uplink: 1.25 Gbit/s</li> <li>• Downlink: 1.25 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>

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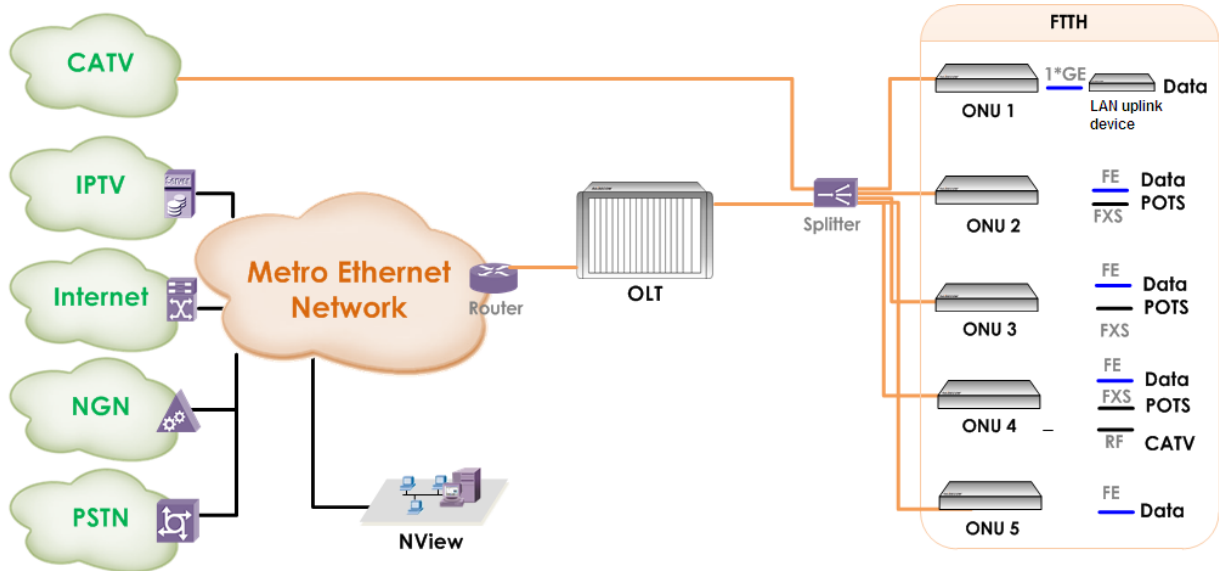
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▼ Typical application



**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 HT803-1GE-05	T	EPON uplink, single GE interface, plastic-shell SFU, American power adapter
ISCOM HT803-1GE-07	T	EPON uplink, single GE interface, plastic-shell SFU, European power adapter

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