

# ISCOM HT803 EPON Home Terminal

## ▼ Introduction

The ISCOM HT803 is a new-generation product with plastic shell developed by Raisecom to meet the FTTH scenario. It provides one 1000 Mbit/s LAN interface, three 100 Mbit/s LAN interfaces, which can be directly connected to the user laptop or computer, providing high-bandwidth Internet access. Featuring small size and light weight, it is easy to be installed in a splice box and can facilitate the upgrade and reconstruction of original networks. Adopting an American or European power adapter and 12 V power supply and featuring low power consumption, it is environmentally friendly, as shown below.



**ISCOM HT803**

## ▼ Features

- Small size, elegance, light weight, suitable for home use
- Comply with IEEE 802.3ah and China Telecommunication Industry Standards.
- Support multiple management modes, such as OLT remote management and EMS and provide abundant alarms, which reduces the location time and maintenance cost.
- It is cost-effective, which reduces the network construction cost of a single unit in the FTTH scenario and is suitable for large scale promotion.
- It has rich functions, which can be preconfigured according to different customers and provinces, thus implementing plug and play and facilitating service activation and maintenance.
- Pass the carrier interworking and centralized procurement test, which is a guarantee for interworking with OLTs from other companies.

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▼ Specifications

Hardware features	
Dimensions	140 mm (Length) × 105 mm (Width) × 33 mm (Height)
Weight	< 1 kg
Maximum power consumption	< 5 W
Power adapter input	<ul style="list-style-type: none"> <li>100–240 VAC</li> <li>50/60Hz</li> </ul>
Power adapter output	<ul style="list-style-type: none"> <li>12 VDC</li> <li>1 A</li> </ul>
Operating temperature	0–50 °C
Operating humidity	10%–93% (non-condensing)
Altitude	≤ 5000 m
Software features	
Ethernet interface	<ul style="list-style-type: none"> <li>Support auto-negotiation, flow control, and rate limiting on the interface.</li> <li>Support interface isolation.</li> <li>Support gathering statistics of unicast and multicast packets received and sent by the interface.</li> <li>Support configuring CIR, CBS, PIR, and PBS.</li> <li>Support configuring the MTU, which is 1518 bytes by default.</li> </ul>
MAC address	<ul style="list-style-type: none"> <li>Support configuring the aging time of MAC addresses and querying and clearing dynamic MAC addresses.</li> <li>Support storm control over DLF, unknown multicast and broadcast packets.</li> </ul>
Loop detection	<ul style="list-style-type: none"> <li>Support detecting loops among UNIs on the same ONU or on different ONUs (does not detect loops among ONU uplink interfaces).</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 mode.</li> <li>Support VLAN Stacking which complies with the IEEE 802.1ad.</li> </ul>
QoS/ACL	<ul style="list-style-type: none"> <li>Support Layer 2 traffic classification match field, such as destination MAC address, original MAC address, VLAN ID, CoS, and Ethernet type.</li> <li>Support Layer 3 traffic classification match field, such as destination IPv4 address, original IPv4 address, IP, and DSCP.</li> </ul>

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	<ul style="list-style-type: none"> <li>• Support Layer 4 traffic classification match field, such as TCP source interface, TCP destination interface, UDP source interface, and UDP destination interface.</li> <li>• Support QoS and ACL traffic classification action.</li> <li>• Support priority scheduling, such as SP and WFQ.</li> </ul>
Multicast	<ul style="list-style-type: none"> <li>• Support IGMP/MLD Snooping.</li> <li>• Support transmitting multicast packets transparently.</li> </ul>
DHCP	<ul style="list-style-type: none"> <li>• Support DHCP Snooping.</li> </ul>
PPPoE	<ul style="list-style-type: none"> <li>• Support PPPoE Relay.</li> </ul>
Partner	<ul style="list-style-type: none"> <li>• Support discovering partner devices and querying SNMP configurations.</li> </ul>
Maintenance and management	<ul style="list-style-type: none"> <li>• Support managing the OLT, Web, and CLT.</li> <li>• Support interface UP/DOWN, and power failure alarms.</li> <li>• Support querying information about the optical module.</li> <li>• Support querying the memory and CPU utilization rate.</li> </ul>
<b>Parameters of the EPON interface</b>	
Standard	IEEE802.3ah
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
Fiber 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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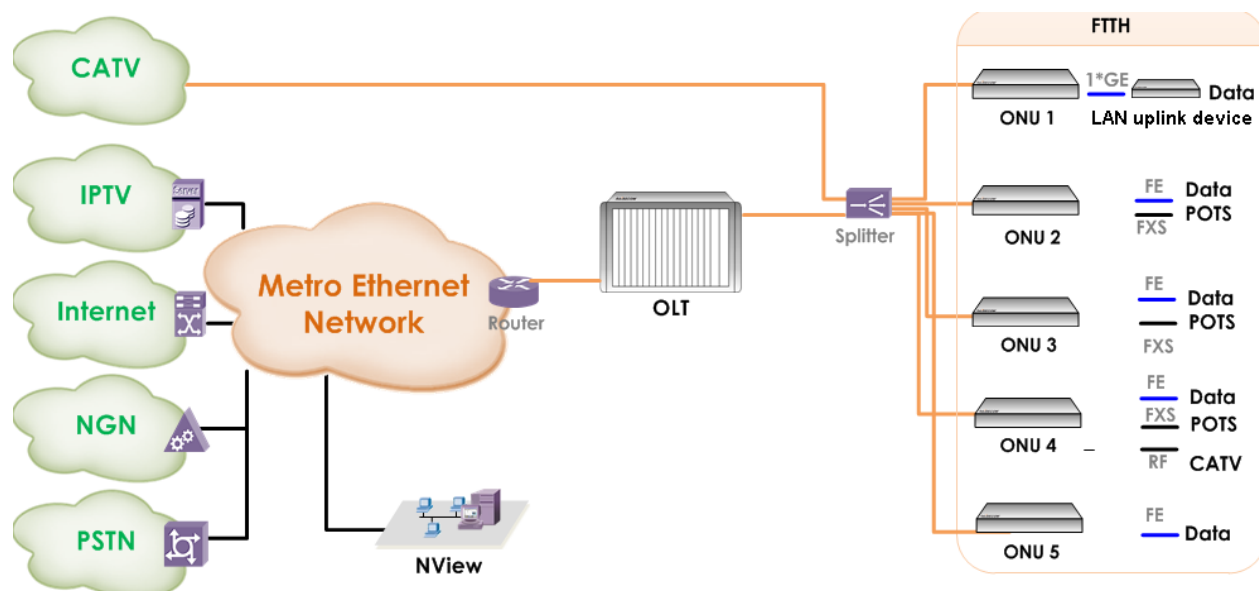
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## ▼ Typical applications



### Networking description

- Install ONUs directly to homes.
- Implement mass access with the large-capacity and high-density ISCOM6800.
- Adopt a small scale coverage in designing the ODN with a high cost in early stage.
- The actual installation rate is the key for profits.
- Provide large granularity bandwidth, which supports implementing various new services.
- Support offline configuration and plug and play, thus accelerating the service activation.
- Support multiple location modes (fiber breakage, power failure, and loop).
- Guarantee the user experience, thus improving user renewal rate and enterprise income.

## Ordering information

Model	Version	Description
ISCOM HT803-05	T	EPON uplink, 1 GE interface, 3 FE interfaces, plastic shell SFU, standard American power adapter
ISCOM HT803-07	T	EPON uplink, 1 GE interface, 3 FE interfaces, plastic shell SFU, standard European power adapter

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