



ISCOM HT803G GPON home terminal

▼ Introduction

The ISCOM HT803G is a SFU device with 1 GPON interface and four 10/100/1000 Mbit/s Ethernet interfaces, which supports desktop installation and wall-mount installation. The appearance is as below.



▼ Features

- Elegant appearance, low power consumption, and good heat dissipation
- High price-performance ratio, widely used in the FTTH networking
- Passing carriers' internetworking test and batch test, with guarantee for internetworking with OLTs of other vendors



▼ Specifications

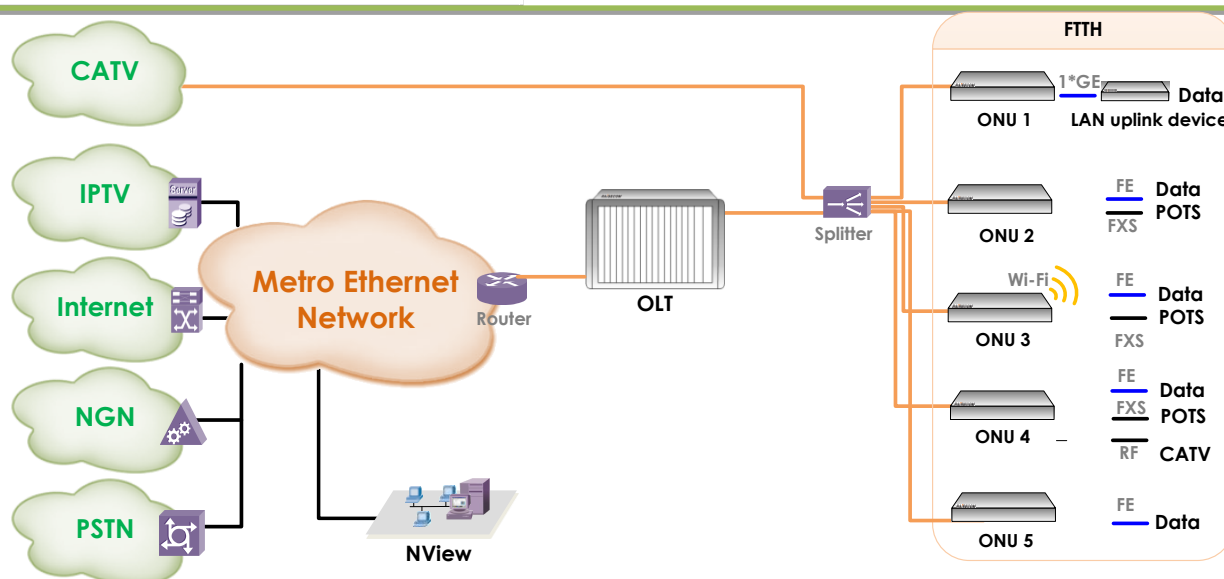
Hardware features	
Dimensions	172 mm (Length) × 125 mm (Width) × 34 mm (Height)
Weight	< 0.28 kg
Voltage	12 VDC
Power consumption	≤ 4.8 W
Working environment	Temperature: 0–40 °C Humidity: 5%–95% (non-condensing)
Storage environment	Storage environment: -20 to 65 °C Storage humidity: 5%–95% (non-condensing)
Dustproof level	IP20
Software features	
Data features	<p>The ONU provides four 10/100/1000Base-T Ethernet data interfaces, and supports the following features:</p> <ul style="list-style-type: none"> • Ethernet auto-negotiation and MDI/MDIX auto-detection • Embedded with a Layer 2 switch • Advanced data functions, such as processing VLAN Tags, traffic classification, and packet filtering.
Voice service	Support VoIP access.
Video service	<p>The ISCOM HT803G supports data-based video transmission (through unicast and multicast).</p> <ul style="list-style-type: none"> • When transmitting data-based video contents through multicast, the ISCOM HT803G supports specific multicast GEM interface in downlink. The video contents can be received and processed by all ONTs and ONUs through a uniform channel, which greatly improves bandwidth utilization. • The ISCOM HT803G supports IGMP Snooping and provides further application optimization. When IGMP Snooping is enabled, the ISCOM HT803G can choose to send multicast data streams upon detection of a member joining and leaving the multicast group.
OAM	<ul style="list-style-type: none"> • OMCI management interface which meets the ITU-T G.988 standard • Various services, including Ethernet, WLAN, VoIP, and RF • Alarm and AVC report, and monitoring performance • Mirror-downloading, activating, and restarting software remotely through OMCI • 2 software mirroring inventories, checking software integrity, and automatical rollback
Interface indexes	



GPON interface	<ul style="list-style-type: none"> ● Fully compatible with ITU-T G.984 ● Single-T-CONT mode and multi-T-CONT mode ● Flexible mapping between the GEM interface and T-CONT interface ● Priority queue and scheduling in the uplink ● Activation through automatic discovery of SN serial number and password ● AES-128 decryption, generating and switching keys ● Mapping from the GEM interface to the T-CONT interface on which queues with priorities are to be scheduled ● Multicast GEM interface for IPTV
GE interface	<ul style="list-style-type: none"> ● 10/100/1000Base-T RJ45 Ethernet interface ● Auto-negotiation or manual configuration of the Ethernet interface ● MDI/MDIX auto-detection
Ethernet bridge	<ul style="list-style-type: none"> ● Supporting CoS in both the uplink and downlink by hardware-based priority queues ● IEEE 802.1d bridge ● Adding/Removing VLAN tag to/from packets of the Ethernet interface ● VLAN stacking (Q-in-Q) and VLAN mapping ● Mapping from IP ToS/DSCP to IEEE 802.1p ● CoS based on UNI, VLAN-ID, 802.1p bit, and ToS/DSCP ● IEEE 802.1p marking and remarking ● IGMP v2/v3 Snooping ● Storm control over broadcast/multicast packets



▼ Typical applications



Networking description

- Use the ONU directly in the user's home.
- Use the high-capacity and high-density ISCOM6800 to access huge services.
- The ODN design adopts thin coverage, with a high cost in the early phase.
- Actual installation rate is the key to profit.
- Provide large-granularity bandwidth for users and support various emerging services.
- The ONU supports offline configurations, plug and play, thus able to speeding up service activation.
- Adopt various means for locating faults (broken fiber, power failure, and loop).
- Support guarantee user experiences, improve renewal rate, and increase customer profit.

Ordering information

Model	Version	Description
ISCOM HT803G	Z.00	1 GPON interface, four 10/100/1000 Mbit/s Ethernet electrical interface, 12 V/1 A external power adaptor



ISCOM HT803G-1GE GPON home terminal

▼ Introduction

The ISCOM HT803G-1GE is a GPON SFU with 1 GPON interface and one 10/100/1000 Mbit/s Ethernet interface.

It is applicable to Fiber To The Home (FTTH) scenario, supporting desktop installation and wall-mount installation.

The appearance is as below.



▼ Features

- Elegant appearance, low power consumption, and good heat dissipation
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- Passing carriers' internetworking test and batch test, with guarantee for internetworking with OLTs of other vendors



▼ Specifications

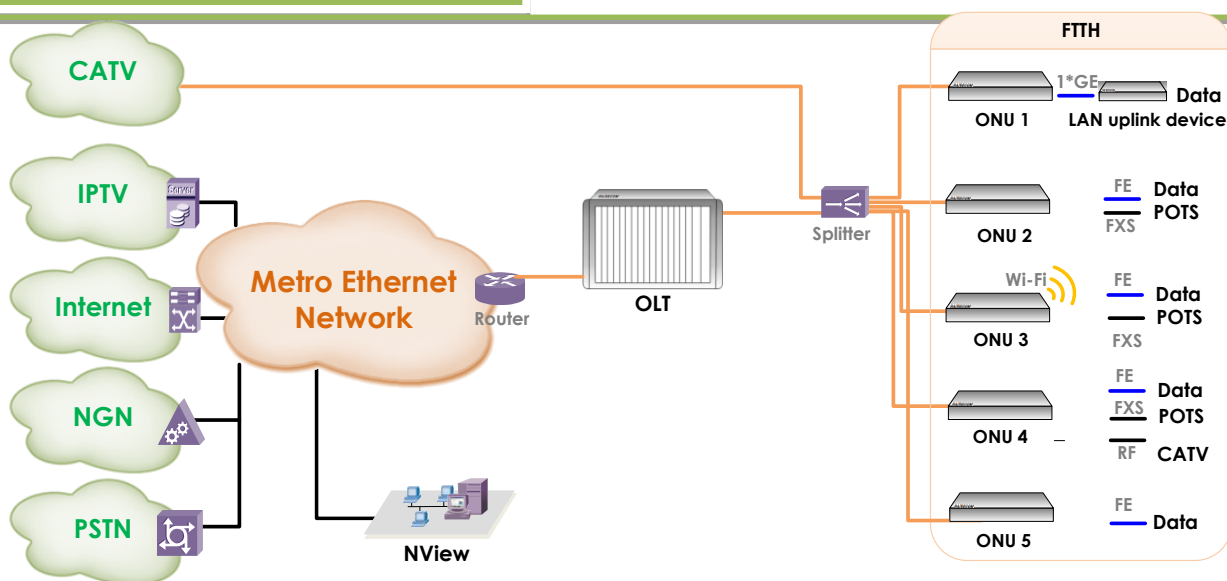
Hardware features	
Dimensions	120 mm (Length) × 90 mm (Width) × 33 mm (Height)
Weight	< 0.2 kg
Voltage	12 VDC/VAC
Power consumption	≤ 4 W
Working environment	Temperature: 0–40 °C Humidity: 5%–95% (non-condensing)
Storage environment	Storage environment: -20 to 65 °C Storage humidity: 5%–95% (non-condensing)
Dustproof level	IP20
Software features	
Data features	<p>The ONU provides one 10/100/1000Base-T Ethernet data interface and supports the following features:</p> <ul style="list-style-type: none"> • Ethernet auto-negotiation and MDI/MDIX auto-detection • Embedded with a Layer 2 switch • Advanced data functions, such as processing VLAN Tags, traffic classification, and packet filtering
Voice service	Support VoIP access. The HT803G-1GE, through the Ethernet interface, supports connecting to the IAD of the external network or home router with voice message function.
Video service	<p>The HT803G-1GE ONU supports data-based video transmission (through unicast and multicast).</p> <ul style="list-style-type: none"> • When transmitting data-based video contents through multicast, the ISCOM HT803G-1GE supports specific multicast GEM interface in downlink. The video contents can be received and processed by all ONTs and ONUs through a uniform channel, which greatly improves bandwidth utilization. • The ISCOM HT803G-1GE supports IGMP Snooping and provides further application optimization. When IGMP Snooping is enabled, the ISCOM HT803G-1GE can purposely choose to send multicast data streams upon detection of a member joining and leaving the multicast group.
OAM	<ul style="list-style-type: none"> • OMCI management interface which meets the ITU-T G.988 standard • Various services, including Ethernet • Alarm and monitoring performance • Mirror-downloading, activating, and restarting software remotely through OMCI • 2 software mirroring inventories, checking software integrity, and automatical rollback



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Ordering information

Model	Version	Description
ISCOM HT803G-1GE	Y	1 GPON interface, one 10/100/1000 Mbit/s Ethernet electrical interface, and 12 V/1.5 A external power adaptor