



ISCOM HT806G-XGS-XE (Z)

The ISCOM HT806G-XGS-XE is a XGSPON uplink home gateway product, which has high reliability and good QoS guarantee. It meets the relevant protocols and standards of ITU-T and IEEE. Equipped with one SC/APC optical interface and one 10M/100M/1000M/2.5G/5G/10G BASE-T Ethernet interface, it is used for high bandwidth data services, ensuring excellent experience in data and high-definition video services.

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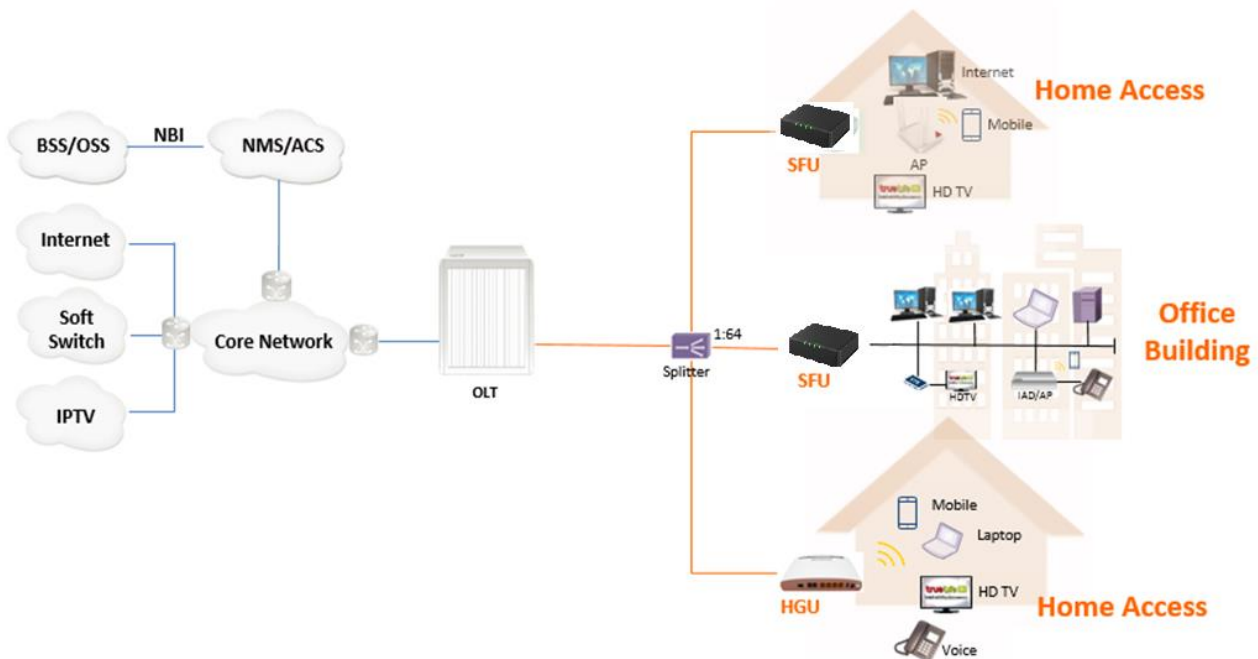


Highlights >>

- Cost-effective device** Plastic shell, cost-effective device with plastic shell, small size with low power consumption
- High bandwidth** Up to 1Gbps LAN interface for high-bandwidth service. 1*10/100/1000/2.5G/5G/10G BASE-T Ethernet interface
- Flexible management** Local or OLT-side telnet access

Application >>

Figure.1 Applied in FTTH network





Key Features >>

| | |
|---------------------------------------|---|
| System registration and certification | <ul style="list-style-type: none"> ● Support the registration based on PON MAC address. ● Support the registration based on LOID. ● Support configuring automatic issuing of service parameters. |
| PON interface | <p>PON</p> <ul style="list-style-type: none"> ● Support FEC checksum and transmission for downlink/uplink frames. ● Support encrypting/de-encrypting downlink/uplink frames. Support the AES mode. ● Support scheduling uplink frames based on priority. ● Support DBA. ● Support PON interface loopback. ● Support reporting optical power parameters. ● Support Dying Gasp alarms. ● Support loop detection. |
| Ethernet interface | <ul style="list-style-type: none"> ● Address swap. Support dynamic MAC address learning. Support learning over 1000 MAC addresses per second. The shared MAC address cache capacity is 16K. ● Supports 802.1p priority, with 1–8 priorities. Support the SP priority scheduling algorithm. Support mapping priority labels into COS queues. Support uplink service traffic classification based on interface. Support filtering Ethernet frames by their parameters (including the MAC DA/SA, VLAN ID, IEEE802.1D user priority, Ethernet type, destination/source IP address, IP protocol type, and source/destination L4 protocol port). Each interface supports 8 CoS priority queues. ● Supports 802.1Q VLAN, VLAN transparent transmission, VLAN tagging/untagging, VLAN mapping, VLAN priority tagging, VLAN filtering, and VLAN trunk. Support mandatorily modifying or adding priority tags (IEEE802.1D user priority). ● Support 4093 VLAN IDs with a range of 2–4094 in transparent mode. ● In translation and aggregation modes, the ID range is 1–4095. Each interface supports 16 VLAN IDs. ● Support interface-based VLAN translation mode (1:1 mode). Each interface supports 16 translation entries. ● Support interface-based VLAN Trunk mode and 4095 VLAN IDs. The ID range is 1–4095. Each interface supports 16 VLAN IDs. Each interface supports 16 VLAN IDs. ● Support interface-based storm control. Support configuring the rate of storm control over broadcast/unknown multicast/unknown unicast packets. ● Support rate limiting on the uplink/downlink direction of the Ethernet interface. The range is 64 kbit/s to 100 Mbit/s, with a granularity of 64 kbit/s. ● Support multicast IGMPv2/v3 protocol, IGMP snooping, or controllable multicast. Support up to 1K multicast groups globally. Support configuring the number of multicast groups on the user interface. ● Support cross-VLAN multicast copy and interface-based cross-VLAN multicast conversion. |
| Maintenance and management | <p>Management interface</p> <ul style="list-style-type: none"> ● Support local and OLT-side Telnet access. ● Support CLI management. ● The EMS can configure and manage the physical layer and link layer related to the PON interface for the NE. |



| | |
|--------|--|
| System | <ul style="list-style-type: none">● Support configuring and saving parameters.● Support remote device restart.● Support restoring factory settings.● Support remote online upgrade of the system software.● Support remotely viewing the shown system information and ONU information. |
| Status | <ul style="list-style-type: none">● Status of the PON interface● Information about PON alarms● PON statistics● Traffic statistics on Ethernet interfaces |

Specifications of optical interfaces >>

| | |
|-----------------------------|--|
| Transmission rate | <ul style="list-style-type: none">● Downlink: 9.953 Gbps● Uplink: 9.953 Gbps |
| Optical module connector | SC/APC connector, optical module |
| Optical physical conditions | ITU-T G9807.1 |
| Optical parameters | <ul style="list-style-type: none">● Downlink<ul style="list-style-type: none">– Wavelength: 1577 nm– Minimum Rx sensitivity: -28 dBm– Rx saturated power: -8 dBm● Uplink<ul style="list-style-type: none">– Wavelength: 1270 nm– Minimum output optical power: 4.0 dBm– Maximum output spectrum width (-20 dB spectrum width): 1 nm |

Specifications of Ethernet interfaces >>

| | |
|---|--|
| Standard | <ul style="list-style-type: none">● IEEE802.3● IEEE802.3au● IEEE802.3x |
| Quantity and parameters of LAN interfaces | <p>1 interface, 10/100/1000/2.5G/5G/10G BASE-T, RJ-45</p> <ul style="list-style-type: none">● Auto-negotiation● Full/Half duplex● RJ-45 MDI/MDIX |
| Physical Interface | <ul style="list-style-type: none">● Uplink: XGS PON, SC/APC connector● Downlink: 1*10 GE (RJ45) |
| Power adapter | <ul style="list-style-type: none">● Input: 100–240 VAC (50/60 Hz) |
| Power consumption | <ul style="list-style-type: none">● Output: 12 VDC, 1A● Full load: < 12 W |
| User Conditions | <ul style="list-style-type: none">● Operating temp: -5~45°C |

International Headquarters

Raisecom Building, East-11, No.10 Xibeiwang East Road,
Haidian District, Beijing, P.R.China, 100193
Tel: +86 10 8288 3305
Fax: +86 10 8288 3056
www.raisecom.com

North American Headquarters, Raisecom Inc.

6380 N Eldridge Parkway Houston Texas 77041 USA
Tel: 1-888-816-4808
Email: sales@raisecominc.com

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- Storage temp: -25~55°C
- Humidity: 10~95% non-condensing

Ordering Information >>

ISCOM HT806G-XGS-XE-05 XGS GPON uplink, 1*10M/100M/1000M/2.5G/5G/10G bit/s Ethernet interfaces, external American power adapter (12 VDC, 1A)

ISCOM HT806G-XGS-XE-07 XGS GPON uplink, 1*10M/100M/1000M/2.5G/5G/10G bit/s Ethernet interfaces, external European power adapter (12 VDC, 1A)

International Headquarters

Raisecom Building, East-11, No.10 Xibeiwang East Road,
Haidian District, Beijing, P.R.China, 100193

Tel: +86 10 8288 3305

Fax: +86 10 8288 3056

www.raisecom.com

North American Headquarters, **Raisecom Inc.**

6380 N Eldridge Parkway Houston Texas 77041 USA

Tel: 1-888-816-4808

Email: sales@raisecominc.com

Raisecom Technology Co., Ltd.

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