ISCOM HT803G

ISCOM HT803G Series | Standalone GPON ONT

Product Overview

Equipped with ITU-T G.984 compliant 2.5G Downstream and 1.25G Upstream GPON interface, ISCOM HT803G is designed for residential and business subscribers' access. The device can be directly placed at home of terminal user for FTTH solution, supporting data and IPTV services.

ISCOM HT803G has one SC/APC GPON interface, 4*10/100/1000 Base-T interface for accessing home gateway CPE or computer. Together with RAISECOM OLT device including ISCOM6800 and ISCOM5508-GP, it provides full L2 switching functionality for high speed data and IPTV services. Compliant with standard OMCI definition, ISCOM HT803G is manageable at remote side and supports the full range FCAPS functions including supervision, monitoring and maintenance.

Highlights

- Single fiber GPON interface with 1.244Gbit/s upstream and 2.488Gbit/s downstream data rates
- Advanced data features such as VLAN tag manipulation, classification, and filtering.
- Traffic classification and QoS capability
- Standard compliant OMCI (the embedded operations channel) interface as defined by ITU-T G.988
- Provisioning all kinds of services including Ethernet, VoIP, etc.
- Alarming and AVC report, performance monitoring
- Remotely software image download over OMCI, as well as activation and rebooting

Specifications

GPON Interface:
    Compliant with ITU-T G.984.2 Amd1, ClassB+
    SC/APC connector
    1310nm burst receive
    1490nm continuous transmit
    1.244 Gbps Burst Mode Upstream Transmitter
    2.488 Gbps Downstream Receiver

Ethernet Interface:
    4*10/100/1000 auto-negotiation
    RJ45 connector
    Full/half duplex mode
    Auto MDI/MDIX

Dimension: 172(W)*34(H)*125(D) mm

Weight: <1kg

Power Supply:
    External 12V power supply adapter

Power consumption:
    ≤4.8W (at max load)

Working Environment:
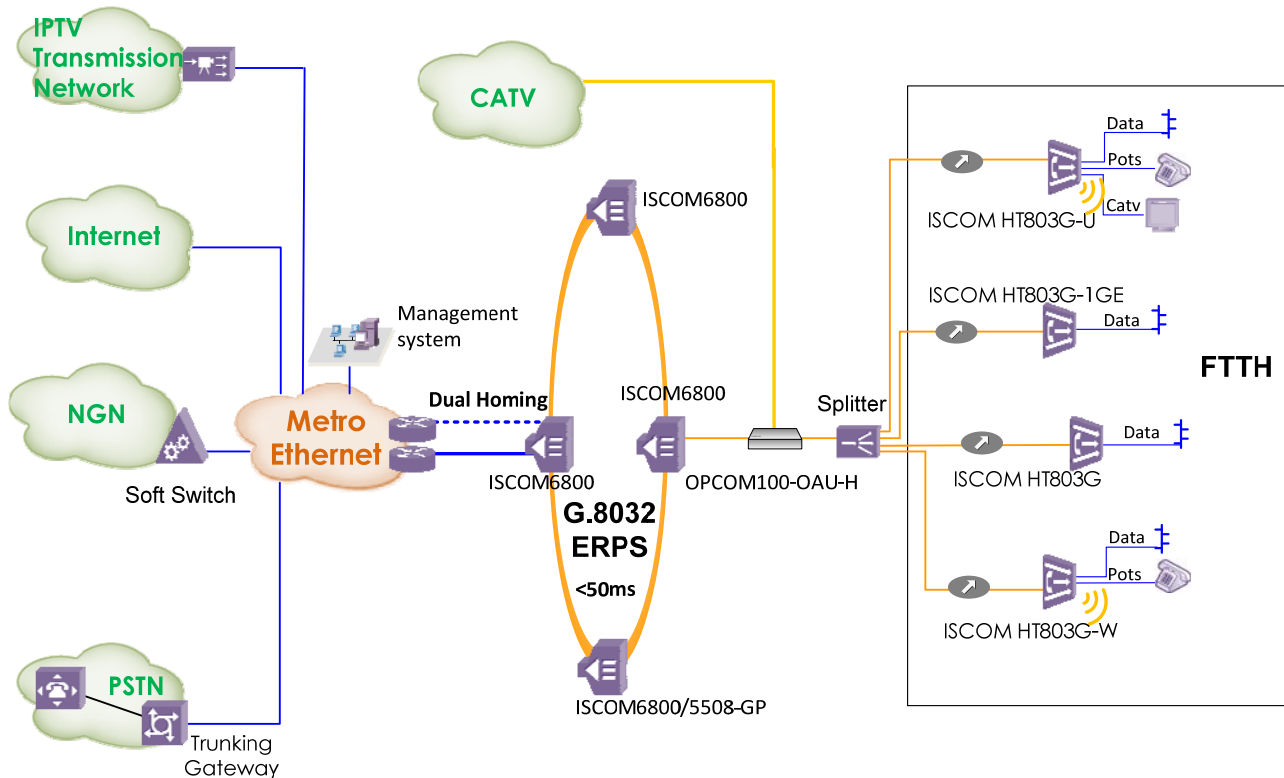   Temp: 0~40 centigrade
    RH: 5~95%　non-condensing

GPON Interface

- Compliant with ITU-T G.984
- 0.5dBm ~+5dBm launch power, -27 dBm sensitivity, and -8dBm overload
- Laser compliant with FCC 47 CFR Part 15, Class B, and FDA 21 CFR 1040.10 and 1040.11, Class I, ONT support Class C or Class C+ optics as an option
- Support G.984.5 Blocking Filter as an option
- Multiple T-CONTs per device
- Multiple GEM Ports per device
- Flexible mapping between GEM Ports and T-CONT
- AES-128 decryption with key generation and switching
- FEC in both directions
- DBA reporting by piggyback reports in the DBRu
- 802.1p mapping service profile on U/S
- GEM for IPTV

Ethernet Interface

- 4x10/100/1000 auto-negotiation
- Ethernet port auto negotiation or manual configuration
- Auto MDI/MDIX
- Hardware priority queues on the downstream direction in support of CoS
- 802.1D bridging
- Virtual switch based on 802.1q VLAN
- VLAN tagging/detagging per Ethernet port
- VLAN stacking (Q-in-Q) and VLAN Translation

IPTV service

- Support IPTV (Multicast/Unicast)
- IGMP v2/v3 snooping
- Broadcast/Multicast rate limiting

QoS

- IP ToS/DSCP to 802.1p mapping
- Class of Service based on VLAV-ID, 802.1p bit, and

ToS/DSCP

- Marking/Remarking of 802.1p

OAM

- Standard compliant OMCI (the embedded operations channel) interface as defined by ITU-T G.988
- Provisioning all kinds of services including Ethernet, etc.
- Alarming and AVC report, performance monitoring
- Remotely software image download over OMCI, as well as activation and rebooting

- Hold two software sets with software image integrity checking and automatic rollback

Standard Compliance

- IEEE802.1Q (VLAN), 802.1ad (QinQ), 802.1p (CoS Priority)
- ITU-T G.984 (GPON),
- IETF RFC 1493 (Bridge MIB),
- IGMP v1/v2/v3
- SNMP v1/v2/v3

Ordering Information

Model	Description
ISCOM HT803G	provides 1xGPON interface for uplink, 4x10/100/1000 Auto MDI/MDIX RJ45 port