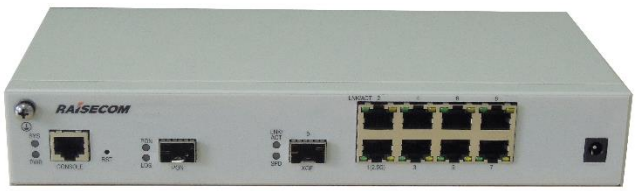
RAISECOM
Raisecom Technology Co., Ltd

Datasheet

ISCOM6108-XGS

The ISCOM6108-XGS is an XGS-PON MDU product developed by Raisecom for all-optical-fiber parks. It provides XGS-PON access for uplink and downlink 10G bandwidth, and provides one 2.5GE electrical interface, 7 GE electrical interfaces, and one 10GE optical interface in the downlink, so it can access services with rate higher than GE and provide users with high-quality data, high-definition video services, and other services.

ISCOM6108-XGS



Highlights >>

Reasonable product design

- Adopt fanless zero-noise design to minimize noise towards residents.
- Iron-shell MDU, strong and durable, high safety protection class, high lightning protection indicators, high product quality.
- Working at -20 to 55°C and with lightning protection level of ±6 kV in common mode, thus adaptive to various areas
- 2.5GE electrical interfaces and 10GE optical interfaces, able to access services with rate higher than GE
- The power interface and service interfaces are at the same side, and wall-mount or rack-mount installation is supported, thus facilitating construction, installation, operation, and maintenance.

Uniform network management, easy operation and maintenance

- Multiple management modes (Telnet, local serial interface, Web, SNMP, and OAM) for login and management
- Batch configuration, profile configuration, and offline configuration of ONUs, plug and play, thus speeding up service activation
- Reporting various alarms (Dying gasp, optical link diagnosis, and loop) to facilitate fault location and troubleshooting
- Uniform network management (NView NNM) system, able to manage all Raisecom devices and support all service configuration to be done

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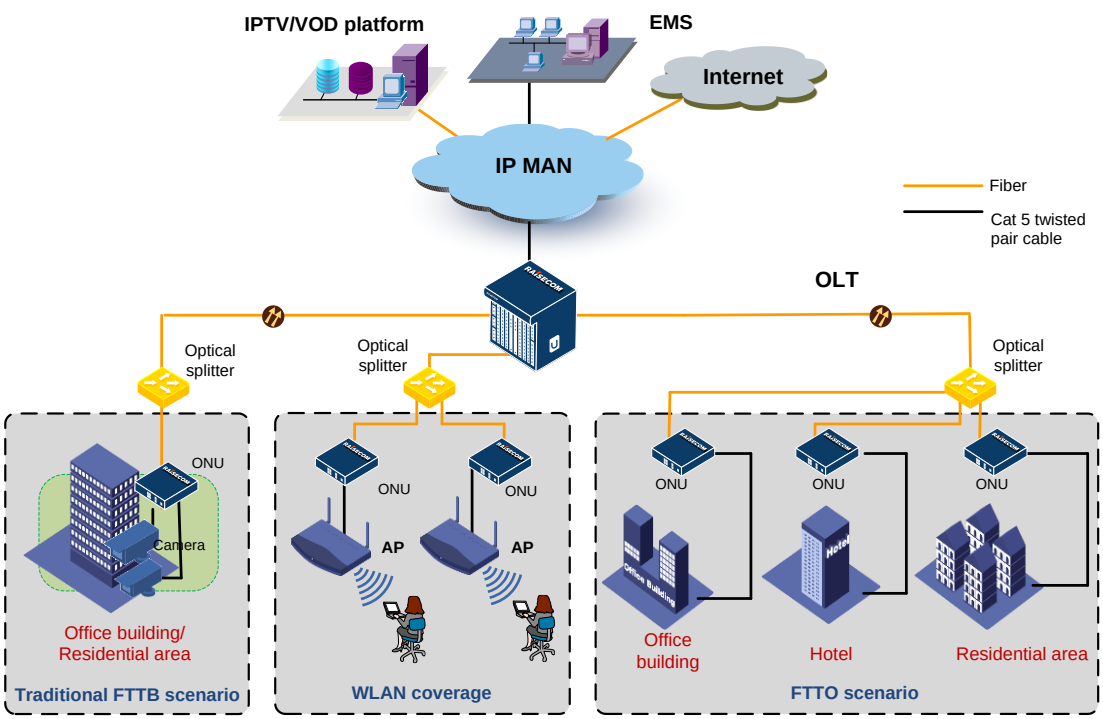
Application >>

ISCOM6108-XGS access networking



ISCOM6108-XGS access networking:

This device not only supports XGS-PON (symmetric 10G bandwidth) high-rate access to meet various requirements in F5G application scenarios, but also supports 2.5GE electrical interfaces and 10GE optical interfaces for LANs, which can flexibly access high-performance APs to meet WLAN coverage.

This device can also meet the traditional FTTB scenario and perform broadband upgrade for the original 1G PON FTTB users.

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Key features >>

PON	● XGS-PON optical module, supporting the interface type of SC/UPC ● ITU-T G.987.x ● 32 T-CONT interfaces and 128 GEM interfaces ● Multiple authentication modes (SN, password, and LOID) in cooperation with the OLT ● DBA in cooperation with the OLT ● Silence, with the time of 60s ● AES-128 encryption
Ethernet interfaces (electrical)	● GE interface: 10/100/1000M auto-negotiation ● 2.5GE interface: 100/1000/2500M auto-negotiation ● Statistics on unicast packets, multicast packets, and broadcast packets on interfaces ● Configurable MTU, ranging from 1518 to 2030, being 1518 by default ● Interface-based storm control over DLF, unknown multicast, and broadcast packets
Ethernet interfaces (optical)	● GE/10GE optical module
MAC address	● Dynamic MAC address learning and aging
Loop detection	● Supported
VLAN	● IEEE 802.1Q ● CTC VLAN mode (transparent transmission, tagging, translation, and Trunk)
Multicast	● IGMP Snooping ● Multicast VLANs ● Immediate leave for multicast
Maintenance and management	● OMCI management and configuration, supporting G.987.1 specifications and China Telecom GPON technical specifications ● OLT management and NView NNM management ● Interface Up/Down alarm and Dying gasp alarms ● Configuring thresholds of optical module status parameters and querying current values

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Specifications >>

PON interface	XGS-PON (SC/UPC, SFP)
Ethernet interface	1*2.5GE+7*GE+1*XGF
Power supply	DC 12 V, 2 A
Working conditions	Operating temperature: -20 to 55°C Operating humidity: 10%–90% (non-condensing)
Maximum power consumption	20 W
Dimensions	260 mm * 130 mm * 44 mm
Dustproof level	IP40
Lightning protection class	Power interface: ±6 kV in differential mode and ±6 kV in common mode Ethernet interface: ±6 kV in common mode
Weight	< 1.8 kg

Standards and protocols >>

Standards and protocols	OMCI management configuration, supporting G.987 specifications

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