HFR,Inc.
for Mobile Internet

Compact type 8 Ports G-PON OLT

HL7008G

Key Features and Benefits

- ITU-T G.984 / G.988 compliant
- L2 / L3+ Non-blocking Switching and Routing
- 120Gbps switching capacity and 89Mpps packet forwarding (64bytes)
- Redundant PSU and FAU
- Up to 8 x G-PON ports
- Up to 4 x 10G / 1G Ethernet ports
- Up to 64K MAC address table
- Up to 8K / 4K L3 multicast groups (IPv4 / IPv6)

Overview

With the rapid spread of broadband Internet and the emergence of new applications, broadband demand for subscriber networks is increasing. PON (Passive Optical Network) technology has emerged that can minimize the management cost while having excellent performance in terms of transmission distance and bandwidth.

HL7008G is a high-performance device that can accommodate these PON technologies and various applications. It can respond to the increase of wired and wireless traffic and demand for network enhancement, also enables wired / wireless integrated services.

HL7008G is a box-type G-PON device that can be mounted in a 19-inch standard rack and accommodate various protocols. It provides 8 G-PON ports to the subscriber side and 4 ports 10G / 1G Ethernet service for connection with the upper network.

For operator's convenience, dual power input is provided on the front panel, and the power is available to select between AC type and DC type.

HL7008G supports multicasting functions for IPTV service and QoS (Quality of Service) and ACL (Access Control List) function for guaranteeing various qualities of service.

For more information

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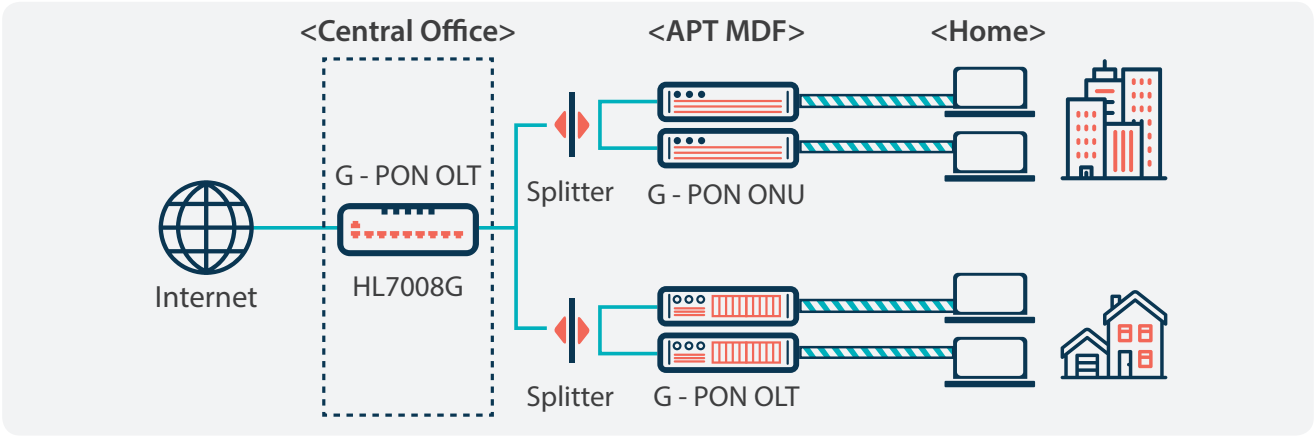
HL7008G Technical Specifications

HFR,Inc. for Mobile Internet

Platform	• L2 / L3+ Non-Blocking Switching • Routing 19″ Rack Mountable Max 8 PON ports • 4 x 10GE / 1GE ports • Hot Swappable & Redundant Power Supply • Hot Swappable 2 FAN units
G-PON	• ITU-T G.984. G-PON Compliant • Downstream : 2.488Gbps • Upstream : 1.244Gbps • Distance between OLT and ONU : Over 20km • Split ratio: Max 64 (128 with Class C+ G - PON optic module) ONUs per PON port • Encryption (128 bit AES) • Inter-operability with multi-vendors' ONUs
Capacity & Performance	• Switching Capacity: 120Gbps • Packet Forwarding (64bytes packet size): 89Mpps
Layer 2	• IEEE802.3 CSMA / CD, IEEE802.1Q VLAN Tagging • Double VLAN Tagging, Jumbo-Frame • IEEE802.3ad Link Aggregation • IEEE802.1D STP, IEEE802.1w RSTP, IEEE802.1p CoS • IEEE802.3x Flow Control, Storm Control • Port Mirroring, Max MAC Control per Port
L3 Routing	• Static Routes, Default Routes, Load Balancing • RIP v1 / v2, OSPFv2, BGPv4 • IPv4 / IPv6 Routing • Proxy / ARP, Dynamic ARP Inspection • 16K / 8K ARP tables (IPv4 / IPv6) • DHCP server / relay, DHCP snooping, DHCP option 82

Multicast	• PIM-SM, PIM-SSM, PIM-ECMP, PIM reroute • IGMP v2 / v3, IGMP snooping, IGMP proxy • MLD v1 / v2, MLD snooping • MLD / IGMP Join Filter, Fast leave • 8K / 4K L3 multicast tables (IPv4 / IPv6)
QoS	• Packet classification and marking • Congestion Management (Input / Output Queuing) Class of Service – 8 queues per port (802.1p) • DiffServ Rate Limiting, Shaping
Management & Security	• SNMP I & II • Command Line Interface (CLI) • DHCP, DHCP relay, DHCP snooping • MAC Flood Guard, ARP spoofing prevention • NetBeui, NetBIOS, NBT, VistaLLDP filtering • Port Mirroring & Monitoring • Packet Filtering - IP, MAC, Application • System Software Upgrade
Physical Dimensions (mm)	• 430 (W) × 44 (H) × 295 (D)
Environmental Specs	• Operating Temperature: -20°C ~ 60°C • StorageTemperature : -40°C ~ 70°C • Operating Humidity (non- condensing): 5% ~ 95%
AC Power	• Input Voltage: 100 ~ 240VAC • Frequency: 50 ~ 60Hz • Power Consumption: Max 78W
DC Power	• Input Voltage: -42 ~ -54VDC

Configuration



UTP

Optical fiber