GL9104C

PON Extender, G.hn wave2, Indoor aggregation unit

An ideal solution for instant distribution of 1 Gbps services in existing buildings—such as MDUs, MTUs, hotels, elderly living facilities, dormitories, schools, and warehouses over existing coax infrastructure. Extremely cost-effective, low entry cost, highly reliable.

Key Features

- Serving up to 64 customers over Coax.
- 4x G.hn Coax ports (downlinks for subscribers' connectivity)
- 1x 2.5 Gbps SFP (uplink) OR
  1x 2.5 Gbps Ethernet (uplink)
- Advanced L2 switching, non-blocking.
- Fully Managed, Web UI, SNMP

GL9104C - PON Extender, G.hn Aggregation

Specification

Interfaces	
Network Uplink	• 1 x 2.5 Gbps SFP port - Active Ethernet or GPON/EPON/XGS-PON via external ONU/ONT • 1x 2.5 Gbps Ethernet port, RJ-45 • Single uplink
Toward Subscribers (downlink)	• 4 x G.hn Coax ports • Each G.hn port can support up to 1.7Gbps, 16 subscribers
Management Interfaces	• Reset Button – Factory default or restart

G.hn	
G.hn over Coax	• 4 Coax Ports 1-4, Coax (F-type connector)
G.hn Wave-2	• ITU-T Standards : G.9960, G.9961, G.9962 Management, G.9964 compliant • Up to 1.7 Gbps with Dynamic Time Allocation to optimize throughput • Frequency Band: Supports OFDM 200 MHz
Topologies supported	• Point-to-MultiPoint - up to 16 subscribers per G.hn coax port
Ease of Operation	• Firmware downloads for end units
Security	• Encryption AES-128

Layer 2 Switching	
MAC Table	• Up to 1K MAC addresses
Jumbo Frame	• 2K bytes

Layer 2 Switching	
VLANs	• Supports IEEE 802.1Q VLAN • Tag-Base VLAN(Domain Master) Port-Base VLAN(End Point) • Management VLAN
IGMP	• v2/v3 Snooping
DHCP	• DHCP Relay By supporting DHCP option 82*
Traffic control	• Storm flooding Control for ARP and unknown unicast packet items
Quality of Service	• Traffic classification based on IEEE 802.1p • Mapping 802.1p to two priority levels • Support Strict Priority

Management	
Management	• Telnet; SSH, HTTP/S, SNMP
Web GUI Interface	• HTTP/ HTTPs – Easy-to-use dashboard for configuration, maintenance, and monitoring
Firmware Upgrade	• Web browser upgrade HTTP • Dual Firmware Image
IPv4 and IPv6	• Support both
SNMP	• SNMP Support for traps
Network Timing Protocol	• Simple Network Time Protocol (SNTP)
IEEE 802.1X	• Acts as an authenticator

Front Panel LEDs and Buttons	
Power LED	• OFF: power off or fail • ON Green: power on
Status (System) LED	• SYS: Green LED • OFF: power off / fail • ON Green: System is ready • Blinking: system booting up
ALARM LED	• OFF: No Faults • ON RED: Alarm - system failure, overheat, wrong voltage
Coax 1-4 LED	• OFF: port disconnected or link fail • ON **Green** solid: G.hn link PHY rate is > 300Mbps, no data traffic in G.hn link. • ON **Green** Blinking: Sending or receiving data • ON **Amber** - Solid: G.hn link PHY rate is 100 Mbps to 300 Mbps, no data traffic in G.hn link. • ON **Amber** blinking: Sending or receiving data ON **Red** - Solid: G.hn link PHY rate is < 100Mbps, no data traffic in G.hn link. • ON **Red** blinking: sending or receiving data)
SFP LED	• OFF: Port disconnected, or link failed • ON Green: 1000/2500 Mbps connected • Blinking: Sending or receiving data
Ethernet LED	• OFF: Port disconnected, or link failed • ON Green: 100/1000/2500Mbps connected • ON Green Blinking: Sending or receiving data
Reset button	• Push for six seconds to load the default setting. • Status (SYS) LED will be blinking

Certifications
CE-EMC Class A, FCC Part 15 Class A
UL compliant (certification in progress)

Power	Details
Input	• 12V/2A; Type – DC Power Jack 2.5mm pin with Lock function.
Power Consumption	• Max power consumption <18W

Physical	
Dimensions	• 228 (W) x 143.5(D) x 40.6 (H) mm; 8.9 (W) x 5.65 (D) x 1.6 (H) inch

Environmental	
Temperature	• Operating Temperature: -10 ~ 50°C • Storage Temperature: -20 ~ 70°C
Relative Humidity	• Operating: 10% ~ 85% RH (non-condensing) • Storage: 5% ~ 90% RH (non-condensing)

Actelis Networks, Inc. (NASDAQ: ASNS) is a market leader in hybrid fiber-copper, cyber-hardened networking solutions for rapid deployment in wide-area IoT applications, including government, ITS, military, utility, rail, telecom, and campus networks. Actelis' innovative portfolio offers fiber-grade performance with the flexibility and cost-efficiency of hybrid fiber-copper networks. Through its "Cyber Aware Networking" initiative, Actelis also provides AI-based cyber monitoring and protection for all edge devices, enhancing network security and resilience.

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