GigaLine 900

Ultra light fiber-copper-coax multiplexer for instant gigabit connectivity in Multi-Tenant Buildings (MTU/MDU)



Extending Fiber Over Existing Wiring



Ultra Fast ROI



Ultra Green 95% Less Power

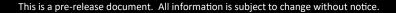


Gigabit Services





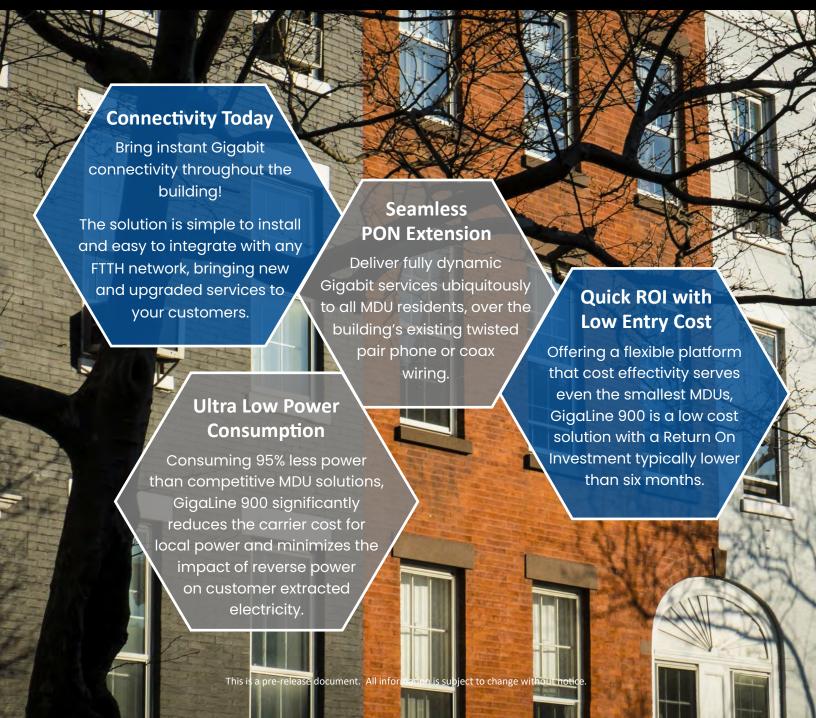




Solving the MDU Connectivity Challenge

The deployment of high speed broadband has been extremely challenging for older MDU/MTUs due to the high cost and time required to implement fiber throughout an existing building.

All of these dwellings have telephone lines (i.e. twisted pairs) and often coax already traversing the walls and floors, reaching to each of the units. Actelis takes advantage of this existing infrastructure to deliver fiber-grade connectivity throughout the building.



A High Quality Experience For Your Customers



GigaLine900 ensures residents **High Quality of Experience (QoE)**, by enabling Gigabit services to be dynamically allocated to up to 16 customers per GL900. The Downstream and Upstream ratio is automatically responsive for each customer.

Key GigaLine900 Features

- Utilizes existing copper or coax infrastructure
- Fast ROI for any size MDU.
 Low entry cost.
- Compact design
- Local and reverse power

- Easy and quick installation with automatic configuration
- Weather hardened (indoor or outdoor* installation)
- Cyber-hardened 128-bit encryption
- Secure, managed solution with remote provisioning

Summary of Specifications

The GigaLine 900 Native PON extender product line includes two main units – A G.hn Point-To-Multi-Point (PTMP) Multiplexer and a G.hn CPE. Multiple variants are supported per Multiplexer and CPE.

GL900x Multiplexer	
Technology	G.HN WAVE 2 Master over TP or Coax ITU-T G.9960, G.9961, G.9962, G.9964 G.hn 200MHz - Optional co-existing with POTS/DSL over twisted pairs and with analog cable TV (250MHz to 1200MHz) over coax
Topology	Point-To-Multi-Point
Network-Network Interface (NNI)	1x 2.5/1 Gbps SFP port – GPON ONU/ONT, Active Ethernet, 1000Base-T SFP, or 1 Gbps (RJ-45, Ethernet)
Subscribers Bandwidth	Up to 1.7 Gbps US/DS, shared between up to 16 customers. Optimize throughput per subscriber enabling full dynamic allocation of US and DS bandwidth with no fixed US/DS ratio.
Performance/ Coverage	1 Gbps @ 300ft /100m; 1 Gbps @ 500ft/150m - extended reach*
MDU interfaces – Type	8 / 16 ports , RJ-45 - G.hn over Twisted Pairs 2 ports, F-connector - G.hn over Coax, CATV Input/Output coax
Number of subs/ MDU	Twisted Pairs: 8 (GL908), 16 (GL916), Nx16 (Multiple units per MDU) Coax: 1 coax port to serve up to 16 customers (GL908/916)
Enhanced Security	End-to-end 128-bit AES encryption, Individual keys per sub /CPE
Switching/L2	MAC - 1K entries, 4K VLAN including support for tagging and management VLAN. IGMP or MLD snooping, DHCP
Management	Auto provisioning, Remote Management
Environmental	Temp: -10°-50°/14°- 122° C/F, Extended * -40°-65°/149° C/F Humidity 10~90% non-condensing
Power	5W, Air cooling. Local or (optional) Reverse power from CPE side
Size	Dimensions (Inch/mm): H: 1.6/40, D: 11.0/280, W: 8.4/213

	GL90x Managed CPE
Technology	G.HN WAVE 2 over TP or Coax, ITU-T G.9960 & G.9961 compliant. G.hn 200MHz
G.hn	RJ-45 for G.hn Twisted Pair or Coax
Customerinterface	1x 1 Gbps (RJ-45, Ethernet)
Dimensions	1.5" H x 2.76" W x 5.24" D (Non-WiFi)
Power	Local , Support Reverse powering (optional) Input: AC 100-240V, Output: DC 12V /1A
Installations	Table / desk mount / wall mounted
WLAN (WiFi)	802.11 b/g/n; 802.11 a/n/ac, Concurrent 2.4GHz & 5GHz

^{*} Future Release

GL900x Product Line

over Hybrid Twisted Pair wiring and Coaxial cable

Multiplexer

GL908 - An 8-port PON Extender

GL916 - A 16-port PON Extender

GL908-TA – An 8-port PON Extender. Extended Temp.

GL916-TA – A 16-port PON Extender. Extended Temp.

GL900-OE - IP67 Outdoor Enclosure



Managed CPEs

GL91 – G.hn Ethernet Bridge (converter)

GL91-W – G.hn Ethernet Bridge with WiFi

GL91-P – G.hn Ethernet Bridge, PoE for GL900 Reverse Powering





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