

Positron GAM Line Powering – Mid Span Injector



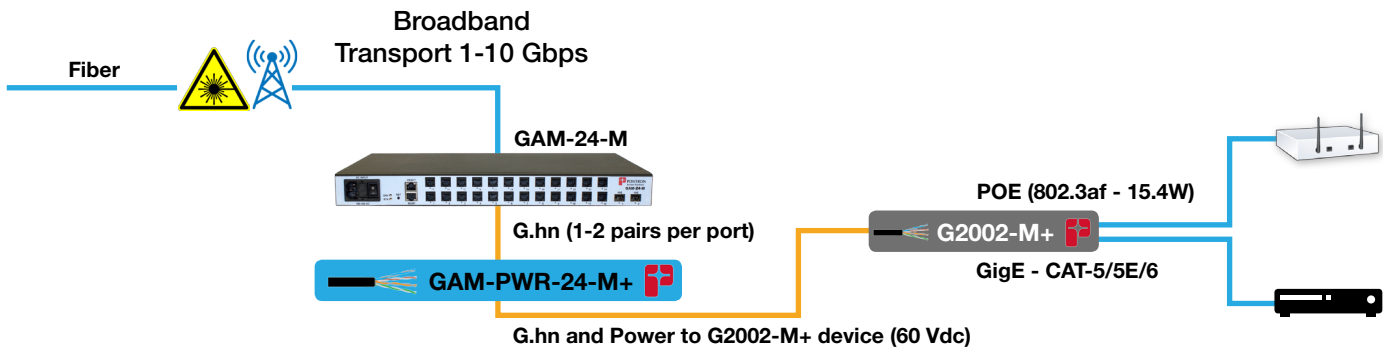
GAM-PWR-24-M+



GAM-PWR-12-M+

Positron’s GAM-PWR family is designed specifically to inject POE as per the IEEE 802.3at standard (GAM-12-M+ and GAM-24-M+) to power the Positron G2002-M+ End-Point devices. The GAM-PWR-24-M+ is a 24 ports (MIMO only - requires 2 copper pairs) mid-span injector that overlays a 55 Vdc power over G.hn pairs. The GAM-PWR-12-M+ operates over 12 ports and offers the same features as the GAM-PWR-24-M+.

The G2002-M+ device (MIMO) can be line powered over two (2) copper pairs per G.hn link. In this case, it provides a POE feed to a device as per IEEE 802.3af (15.4W) to devices such as Wi-Fi Access Points.



Ordering Information

Part Number	Description
G2002-M+	G.hn Wave-2 to Ethernet Bridge over Twisted Pair Line powered over 2 pairs using a GAM-PWR-24-M+ (or GAM-PWR-12-M+). Comes with two (2) GigE ports: Port 1 is a VLAN Trunk port with POE/POE+ and Port 2 is a VLAN Access port. When line powered, the maximum POE from port #1 is 15.4w (IEEE 802.3af).
GAM-12-M	12 port G.hn Access Multiplexer (GAM) for use over Twisted Pair wiring for 1 pair (SISO) or 2 pairs (MIMO) per RJ45 port
GAM-24-M	24 port G.hn Access Multiplexer (GAM) for use over Twisted Pair wiring for 1 pair (SISO) or 2 pairs (MIMO) per RJ45 port
GAM-PWR-12-M+	12 port Mid-Span Power G.hn copper Power Injector to power G2002-M+ devices
GAM-PWR-24-M+	24 port Mid-Span Power G.hn copper Power Injector to power G2002-M+ devices

Technical Specifications

No of Ports	GAM-PWR-12-M+: 12 G.hn ports IN and 12 G.hn + Power ports OUT GAM-PWR-24-M+: 24 G.hn ports IN and 24 G.hn + Power ports OUT
Power over G.hn Pin Assignment and Polarity:	Output Pairs 4/5 (+), 7/8 (-) Output Power Voltage: 55 Vdc User Port Power: 36W Typical Aggregate Power: 450W (GAM-PWR-12-M+) 1000W (GAM-PWR-24-M+)
Input Power Requirements	AC Input Voltage: 100 to 240 Vac DC Input: 46V - 57V AC Frequency: 50 to 60 Hz AC Input Current: GAM-PWR-12-M+: 5.5A @ 110 Vac; 2.75A @ 220 Vac GAM-PWR-24-M+: 12A @ 110 Vac; 6A @ 220 Vac
Dimensions	438 mm x 272 mm x 44 mm 17.3 in. x 10.8 in. x 1.75 in or 1U
Weight	14.3 lbs (6.5 kg)
LED Indicators	System Indicator: AC Power (Green) User Indicator: Channel Power (Green)
Connectors	<ul style="list-style-type: none"> • Power over G.hn ports and management port: Shielded RJ-45, EIA 568A and 568B • Console Port: USB Connector Type B • DC Connector: DC Block Terminal • RPS Com Connector: HD-D-sub-15
Environmental	Operating Ambient Temperature: 32° to 104°F (0 to 40°C) Operating Humidity: 10% to 90%, Non-condensing Storage Temperature: -4° to 158°F (-20° to 70°C) Storage Humidity: 5% to 95%, Non-condensing Operating Altitude: -1000 to 10,000 ft. (-304.8 to 3048 m)
Thermal Rating	365/810 BTU/Hr
Regulatory	IEEE 802.3af (PoE Type 1), IEEE 802.3at (PoE+ 2-event) RoHS Compliant, VCCI, CE, C-Tick
Electromagnetic Emission & Immunity	FCC Part 15, Class B EN 55022 Class B (Emissions) EN 55024 (Immunity), VCCI
Safety Approvals	UL/cUL Per EN 60950-1 GS Mark Per EN 60950-1

Note: The GAM product family comes with a 2-year hardware warranty.