

INDUSTRIAL POWER OVER ETHERNET INJECTORS



Ruggedised Ethernet Solutions

The AMG Industrial range of PoE Injectors are designed for small to medium network environments to strengthen network connections.



 Gigabit x1	 Gigabit x1	 Mounting DIN/Surface	 Temp -40°C~+75°C
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[AMG9101G-HP-H]

/ OVERVIEW

They use standard 48V_{DC} to power up IEEE802.3at compliant network accessories and also features PoE awareness to verify whether the network device is IEEE 802.3af/at compliant, or only the data will be sent through LAN cable.

By adding PoE Injectors to existing networks, installing networking products such as access points and IP cameras can be easily managed and set up.

The AMG9101G-XP-H supports Ultra PoE which can supply up to 60W of power.

/ FEATURES

- The PoE Injectors have 1 Ethernet input port (data only) + 1 Ethernet output port (data + power) @ 15.4W, 30W and 60W
- Compliant with IEEE 802.3af and IEEE 802.3at
- 'Plug-and-play' installation
- Operating temperature -40°C to 75°C
- LED indicators
- Provides up to 60W of PSE (power sourcing equipment) power
- You can use existing standard Cat-5 Ethernet cable to deliver both power & data, reducing installation time & cost
- Wide-range redundant power design
- IP30 Protection

Specifications.

Standards.

IEEE802.3	10BaseT
IEEE802.3u	100BaseTX
IEEE802.3ab	1000BaseT
IEEE802.3af	15W Power over Ethernet
IEEE802.3at	30W Power over Ethernet+
Switch Architecture	Store and Forward

Interface.

LED Indicators	PW1 (Power 1) Green, PW2 (Power 2) Green, ERR (Fault) Amber, PoE Status (Green)
Flash:	Overload
ON:	PoE Normal working
OFF:	No PoE power detected

Power.

Input Voltage	
AMG9101G-HP-H:	Redundant Dual 42-58V _{DC}
AMG9101G-XP-H:	Redundant Dual 48V _{DC} , Range 42V _{DC} to 57V _{DC}
Input Current	Max 2.5A @48V _{DC} input
Protection	Reverse Polarity and Overload Current
Power Consumption (without PoE)	
AMG9101G-HP-H:	1 W @ 48V _{DC} full load
AMG9101G-XP-H:	1 W @ 48V _{DC} full load
PoE Power	
AMG9101G-HP-H:	30Watts (34W Max)
AMG9101G-XP-H:	60Watts Max

Alarm Relay Contact	Relay outputs with current carrying capacity of 1 A @ 24V _{DC} , Relay in short circuit mode when 2 powers are connected, in open circuit mode when only one power supply is connected
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Mechanical.

Housing	Rugged metal, IP30 Protection
Mounting	DIN Rail, Wall
Dimensions	102 × 32 × 75 mm
Weight	0.28kg

Environmental.

Operating Temp.	-40°C to 75°C
Storage Temp.	-40°C to 85°C
Humidity	5% to 95% (non-condensing)
MTBF	5,510,304hrs (at 25°C)

Regulatory.

Certification	FCC Class A, CE
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Part Numbers.

AMG9101G-HP-H	1 × 10/100/1000TX with 802.3at 30W PoE, Power input 48V _{DC}
AMG9101G-XP-H	1 × 10/100/1000TX with 60W Ultra PoE, Power input 48V _{DC}

Recommended PSUs.

AMG2023	DIN-Rail mounting PSU, 48-56V _{DC} , 30W
AMG2016	DIN-Rail mounting PSU, 48-56V _{DC} , 60W

Notes.

Voltage Booster models are also available, see separate datasheet