

# INDUSTRIAL VOLTAGE BOOSTING 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

[ AMG9101G-XP-H-B ]

### / OVERVIEW

They use low voltages such as 12/24/48V<sub>DC</sub> and convert it into usable PoE power for IEEE802.3at compliant network accessories. They also feature PoE awareness to verify whether the network device is IEEE 802.3af/ at compliant, or only data will be sent through Ethernet 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 supporta 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 PoE
IEEE802.3at	30W PoE+
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-B:	Redundant Dual 12/24/48V <sub>DC</sub> Range 12-55V <sub>DC</sub>
AMG9101G-XP-H-B:	Redundant Dual 24/48V <sub>DC</sub> , Range 18-55V <sub>DC</sub>
Input Current	
AMG9101G-HP-H-B:	Max 3A @ 12V <sub>DC</sub> input
AMG9101G-XP-H-B:	Max 2.5A @ 48V <sub>DC</sub> input

Protection	Reverse Polarity and Overload Current
------------	--

Power Consumption (full load, without PoE)

AMG9101G-HP-H-B: 1 W @ 12/24/48V<sub>DC</sub>

AMG9101G-XP-H-B: 1 W @ 24/48V<sub>DC</sub>

PoE Power

AMG9101G-HP-H-B: 30Watts (34W Max)

AMG9101G-XP-H-B: 60Watts Max

Alarm Relay Contact Relay outputs with current carrying capacity of  
1A @ 24V<sub>DC</sub>,

Relay in short circuit mode when 2 powers are connected, in open circuit mode when only one power supply is connected

## 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
---------------	-----------------

# Part Numbers.

AMG9101G-HP-H-B	1 × 10/100/1000TX with 802.3at 30W PoE, Voltage Booster Model (12/24/48 V <sub>DC</sub> Input)
AMG9101G-XP-H-B	1 × 10/100/1000TX with 60W Ultra PoE, Voltage Booster Model (24/48 V <sub>DC</sub> Input)

# Recommended PSUs.

AMG2002	Standalone PSU, 15V <sub>DC</sub> , 30W
AMG2023	DIN-Rail mounting PSU, 48-56V <sub>DC</sub> , 30W
AMG2016	DIN-Rail mounting PSU, 48-56V <sub>DC</sub> , 60W

# Notes.

Voltage Booster models are also available, see separate datasheet