

INDUSTRIAL MEDIA CONVERTERS WITH POE+



Rugged Ethernet Solutions

The AMG Industrial Ethernet Media Converters with PoE have been specifically designed for rugged outdoor and harsh industrial environments with extended temperature requirements and space constraints.



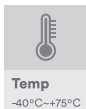
[AMG9011F-SC-SM30-HP-H]



10/100
x1



Single-mode
Multi-mode



Temp
-40°C~+75°C



Mounting
DIN/Surface

/ OVERVIEW

The products enable the transparent extension of up to 100Mbit/s Ethernet over optical fibre links between two Ethernet twisted pair devices with no performance degradation.

This point-to-point product range meets all the relevant industry standards for 10/100Mbit/s Ethernet, with 'plug-and-play' installation. It is also compliant with NEMA TS1/TS2 Environmental requirements such as temperature shock, and vibration for traffic control equipment.

Supporting 10/100Mbit/s data rates, full or half duplex these flexible, compact and easy to use Ruggedized Ethernet extenders also have the benefit of link fault pass through (LFP) and relay alarm output functionalities.

The PoE functionality provides a simple solution for supplying full 30 watts of power to edge devices, such as PoE enabled PTZ domes, Access Control etc without the need for extra power supplies.

/ FEATURES

- Compact size and cost effective
- Compliant with all IEEE 802.3 variants (u/x/z)
- Compliant with NEMA TS1/TS2 Environmental requirements and IEC61000-6-2 EMC Generic Standard Immunity for industrial environment
- Link Fault Pass through (LFP) functions
- Redundant power inputs
- Relay alarm output for power or port link failure
- Wide operating temperature -40°C to 75°C
- LED indicators
- 'Plug-and-play' installation
- Up to 2km on multimode fibre
- Up to 30km on singlemode fibre
- Easy to maintain

Specifications.

Standards.		Environmental.	
IEEE802.3	10BaseT	Operating Temp.	-40°C to 75°C
IEEE802.3u	100BaseTX/100BaseFX	Storage Temp.	-40°C to 85°C
IEEE802.3x	Flow Control and Back Pressure	Humidity	5% to 90% (non-condensing)
IEEE802.3af	15W PoE	Regulatory.	
IEEE802.3at	30W PoE+	Safety	UL508, cUL, CE/EN60950-1 Class 1 Division 2 Groups A, B, C Hazardous Locations
Processing Type	Store and Forward	EMS	FCC Class A CE EN61000-4-2 (ESD) CE EN61000-4-3 (Radiated)
Interface.		RFI)	CE EN61000-4-4 (Burst) CE EN61000-4-5 (Surge) CE EN61000-4-6 (Induced)
LED Indicators		RFI)	CE EN61000-4-8 (Magnetic
Per Unit:	Power, Alarm, Link/Activity, PoE Status	Field)	CE EN61000-4-11 (Voltage
RJ45 Ports		Dip)	CE EN61000-4-12 (Oscillatory
10/100TX:	1x RJ45 with auto MDI/MDI-X	Waves)	CE EN61000-3-2 (Harmonics
Fibre	SC (Multi-mode, 2km), (Single-mode, 30km)	Current)	CE EN61000-3-3 (Voltage
Terminal Block	Redundant power input with alarm system	Fluctuation & Flickers)	CE EN6100-6-2 CE EN6100-6-4
DIP Switch	4 modes	Environmental Test	IEC60068-2-32(Freefall) IEC60068-2-27 (Shock) IEC60068-2-6 (Vibration)
Power.			
Input	44-56V _{DC}		
Power Consumption	39W Max (3W without PoE)		
Protection	Reverse Polarity Overload Current		
Mechanical.			
Casing	Aluminium case		
Dimensions	32 x 81.5 x 103.5 mm		
IP Rating	IP30		
Installation	Wall Mount or DIN-Rail		

Part Numbers.

AMG9011F-SC-MM-HP-H	10/100BaseTX with 802.3at PoE to 100BaseFX SC (MM:2km) (-40°C to 75°C) Power Input 44-56 V _{DC}
AMG9011F-SC-SM30-HP-H	10/100BaseTX with 802.3at PoE to 100BaseFX SC (SM:30km) (-40°C to 75°C) Power Input 44-56 V _{DC}

Recommended PSUs.

AMG2023	DIN-Rail mounting PSU, 48-56VDC, 30W
AMG2016	DIN-Rail mounting PSU, 48-56VDC, 60W