



Rugged Ethernet Solutions

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



[AMG9011F-SC-MM-H2]



[AMG9011G-H]

10/100 x1	Single-mode Multi-mode	Gigabit x1	SFP x1	Temp -40°C~+75°C	Mounting DIN/Surface

OVERVIEW

The products enable the transparent extension of 100Mbps/s or 1000Mbps/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 10/100/1000Mbit/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 10/100/1000Mbit/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.

FEATURES

- Compliant with all IEEE 802.3 variants (u/ab/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 for 100BaseT models and up to 500m on multimode fibre for 1000BaseT models
- Up to 120km on singlemode fibre
- Easy to maintain

Specifications.

Standards.

IEEE802.3	10BaseT
IEEE802.3u	100BaseTX/100BaseFX
IEEE802.3ab	1000BaseT
IEEE802.3z	1000BaseSX/LX
IEEE802.3x	Flow Control and Back Pressure

Processing Type	Store and Forward
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Interface.

LED Indicators	
Per Unit:	Power 1, Power 2, Fault
Ethernet:	Link/Activity, Speed
SFP/Fibre:	Link/Activity
RJ45 Ports	1x RJ45 with Auto MDI/MDI-X
Fibre	SC (Multi-mode, 2km) SC (Single-mode, 30km) SFP
Terminal Block	Redundant power input with alarm system
DIP Switch	4 modes

Power.

Input	
Terminal Block:	12-48V _{DC}
Power Consumption	
100Mb variant:	2.74W Max
Gigabit variant:	5.28W Max
Protection	Reverse Polarity Overload Current

Mechanical.

Casing	Aluminium case
Dimensions	30 × 95 × 140 mm
IP Rating	IP30
Installation	Wall Mount or DIN-Rail

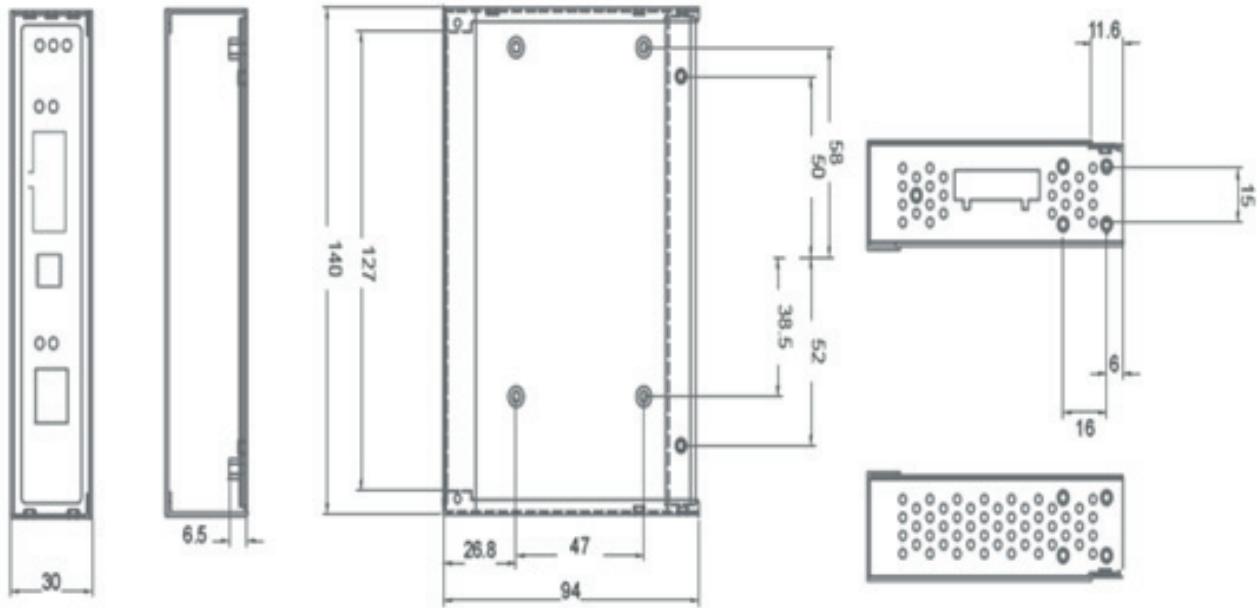
Environmental.

Operating Temp.	-40°C to 75°C
Storage Temp.	-40°C to 85°C
Humidity	5% to 90% (non-condensing)
MTBF	384,816 hours

Regulatory.

Safety	UL508, cUL, CE/EN60950-1 Class 1 Division 2 Groups A, B, C Hazardous Locations
EMS	FCC Class A CE EN61000-4-2 (ESD) CE EN61000-4-3 (Radiated RFI) CE EN61000-4-4 (Burst) CE EN61000-4-5 (Surge) CE EN61000-4-6 (Induced RFI) CE EN61000-4-8 (Magnetic Field)
Field)	CE EN61000-4-11 (Voltage Dip) CE EN61000-4-12 (Oscillatory Waves)
Current)	CE EN61000-3-2 (Harmonics Fluctuation & Flickers) CE EN61000-3-3 (Voltage Fluctuation & Flickers)
Fluctuation & Flickers)	CE EN6100-6-2 CE EN6100-6-4
Environmental Test	IEC60068-2-32(Freefall) IEC60068-2-27 (Shock) IEC60068-2-6 (Vibration)

Specifications.



Part Numbers.

AMG9011F-SC-MM-H2	10/100BaseTX to 100BaseFX SC (MM:2km) (-40 to +75°C), 2 x Power input 12-48V _{DC}
AMG9011F-SC-SM30-H2	10/100BaseTX to 100BaseFX SC (SM:30km) (-40 to +75°C), 2 x Power input 12-48V _{DC}
AMG9011G-H	10/100/1000TX to 1000SX/LX SFP (-40°C to +75°C), 2 x Power input 12-48V _{DC}

Recommended PSUs.

AMG2001	Standalone PSU, 15V _{DC} , 15W
AMG2002	Standalone PSU, 15V _{DC} , 30W
AMG2004	DIN-Rail mounting PSU, 15V _{DC} , 24W

Notes.

Optional Accessories: SFP modules - Optical/Copper see separate list, need to be ordered separately