

AMG MINI INDUSTRIAL MEDIA CONVERTER



Rugged Ethernet Solutions

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



[AMG9011F-SC-MM-HM]



[AMG9011F-SFP-HM]

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

The products enable the transparent extension of 10/100Mbps/s Ethernet over optical fibre links between two fast Ethernet twisted pair devices with no performance degradation.

This point-to-point product range meets all the relevant industry standards for 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.

A range of ruggedized and commercial Gigabit Ethernet media converters are available to support higher data rates.

FEATURES

- UTP to Fiber Media Converter
- RJ-45 port support Auto MDI/MDI-X Function
- Auto Negotiation Speed, Half/Full Duplex
- Store-and-Forward Switching Architecture
- MAC Address Table Size: 1K
- Support Link Lose Forwarding(LLF) & Switch and Converter mode
- ESD Protection diode on RJ 45 port; Far end Fault function on FX port
- Support Wide Operating Temperature (-40°C~75°C)
- IP-40 Protection Rating

Specifications.

Standards.

IEEE802.3	10 BaseT
IEEE802.3u	100BaseTX/100BaseFX
IEEE802.3x	Flow Control and Back Pressure

Hardware.

Switch Architecture	Store and Forward
Fibre Parameters	
SC (Multimode):	50/125um ~ 62.5/125um
SC (Singlemode):	9/125um
Available distance:	2km (Multimode), 30km (Singlemode)
Wavelength:	1310nm (Multimode/Singlemode)
Link Loss Forward	
TX -> Fibre	If TX port link down, the media converter will force Fiber port to link down
Fibre -> TX	If Fiber port link down, the media converter will force TX port to link down
DIP Switch	
DIP 1	On: Converter, Off: Switch(Default)
DIP 2	On: LFP enable, Off: LFP disabled(Default)
Connector	
Fiber	SC (Multi-mode, 2km), SC (Single-mode, 30km), SFP
RJ-45	CAT-3/5 (10/100Mbps) Twisted Pair cable Auto MDI/MDI-X and Auto-Negotiation Function Support
LED Indicator	Power, Speed, Link/Act Speed (TP port) Link/Act (TP and Fiber port)

Power.

Input	12~48V _{DC} , 18-36 V _{AC}
Consumption	
Idle:	1.55 Watts
Full Load:	2.1 Watts
Max Power:	2.5 Watt
Protection	Reverse Polarity Overload Current

Environmental.

Operating Temp.	-40°C to 75°C
Storage Temp.	-40°C to 85°C
Humidity	5% to 90% (non-condensing)

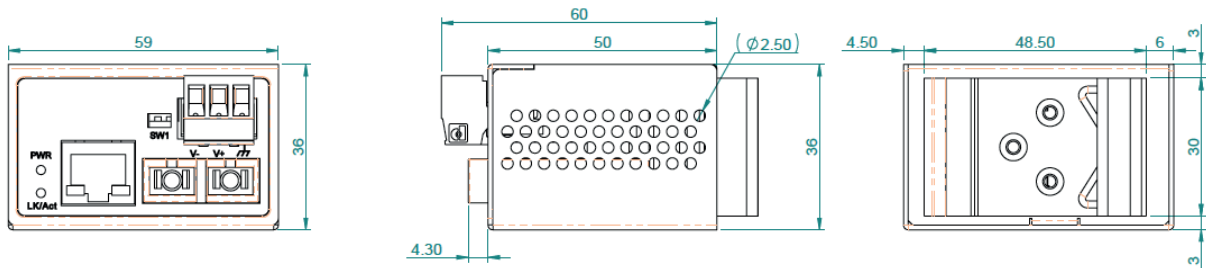
Mechanical.

Casing	Metal Case, IP40
Dimensions	59 × 36 × 49 mm
Installation	DIN Rail and Wall Mount

Certifications.

CE, FCC, ROHS, VCCI(pending)

Specifications.



Part Numbers.

AMG9011F-SC-MM-HM	10/100BaseTX to 100BaseFX SC (MM:2km) (-40°C to 75°C), Power input 12-60V _{DC} , 18-36 V _{AC}
AMG9011F-SC-SM-HM	10/100BaseTX to 100BaseFX SC (SM:30km) (-40°C to 75°C), Power input 12-60V _{DC} , 18-36 V _{AC}
AMG9011F-SFP-HM	10/100BaseTX to 100M SFP (-40°C to 75°C), Single Power input 12-60V _{DC} , 18-36 V _{AC}

Recommended PSUs.

AMG2001	Standalone PSU, 15VDC, 15W
AMG2002	Standalone PSU, 15VDC, 30W
AMG2004	DIN-Rail mounting PSU, 15V, 24W

Notes.

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