AMG INDUSTRIAL HARDENED MINI MEDIA CONVERTERS

Ruggedised Industrial Ethernet Solutions

AMG's Mini media converters provide a 100Mbps or Gigabit Ethernet uplink across fibre via the SFP port.

10/100	100	Gigabit	Gigabit	Temp	Mounting
x1	x1	x1	x1	-40°C~+75°C	DIN

[AMG9HMEC-1G-1S]

OVERVIEW

Housed in a mini chassis, these DIN rail mountable devices are ideally suited for connecting field based equipment such as IP CCTV cameras and industrial controllers to Ethernet networks over long distances using all types of fibre. Fibre connectivity is determined by separate SFP device selection, providing application and site flexibility.

SFPs and PSUs need to be ordered seperately.

FEATURES

- Mini size – ideal for confined spaces, including camera poles and roadside cabinets
- -40°C to 75°C temperature – maintains performance in extreme conditions
- Non-programmable – no need for any user configuration or computer setup
- DIN rail mountable – quick to install and remove for maintenance
- Gigabit or 100M SFP port – supports single and multimode, single or dual fibre options up to 120Km
- Gigabit or 10/100M Ethernet copper ports – high bandwidth support
- Auto MDI or MDI-X config – eliminates the need for crossover cables
- Auto-Negotiation (802.3u) – automatically determines the best connection speed
- Automatic Link Restoration - restores operation when recovering from a temporary fault

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Specifications.

Standards.

IEEE802.3	10BaseT
IEEE802.3u	100BaseTX
IEEE802.3ab	1000BaseT
IEEE802.3z	1000BaseSX/LX

Interface.

LED Indicators	
Power:	ON = Link; Flashing = Activity
Fiber Link/Act:	ON = Link; Flashing = Activity
Copper Link/Act:	ON = Link; Flashing = Activity
RJ45 Ports	1x 10/100Tx or 1x 10/100/1000TX RJ45 with Auto MDI/MDI-X
SFP Slot	1x 100M or 1x 1000M SFP
Power	1x 2 pin removable terminal block

Power.

Input:	12-56V_{DC} (Non-PoE) 48-56V_{DC} (PoE)
Consumption	3W Max
Protection	Reverse Polarity, Overload Current

Mechanical.

Casing	Anodised Aluminium
Dimensions	55 × 55 × 26 mm
IP Rating	IP30
Installation	Stand-alone or DIN-Rail
Weight	0.2kg

Packaging.

Shipping Weight	0.52kg
Dimensions	250 × 200 × 65 mm

Environmental.

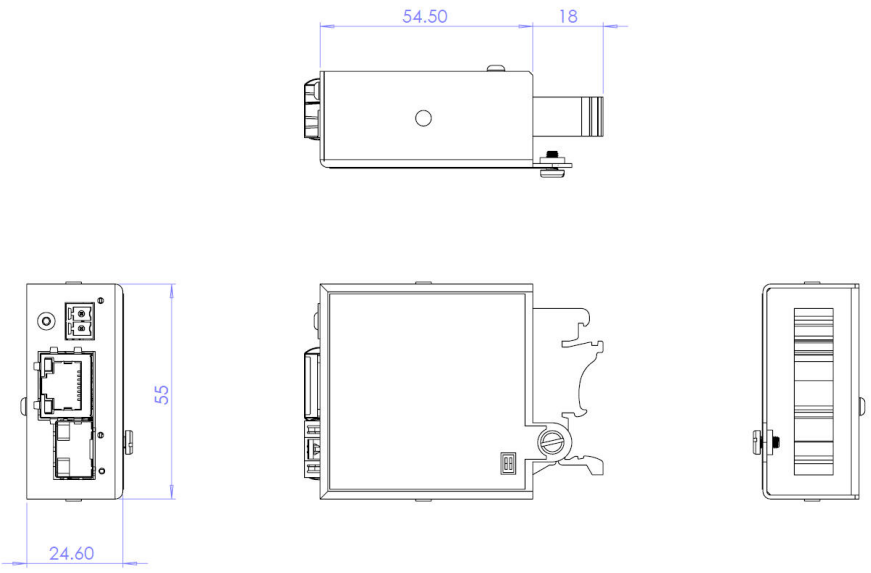
Operating Temp.	-40°C to 75°C
Storage Temp.	-40°C to 85°C
Humidity	5% to 90% (non-condensing)
Compliances	Reach, RoHS and WEEE
MTBF (Hours)*	
Without power adaptor	310,000
With power adaptor	310,000

Regulatory.

Electrical Safety	CE/EN60950-1
Immunity	EN55022
Emissions	EN61000-3-2

Environmental

Cold:	EN 60068-2-1 Test Ab/Ad to -40°C
Hot:	EN 60068-2-2 Test Bb/Bd to +75°C
Change in temp:	EN 60068-2-14 Test Nb
Humidity:	EN 60068-2-56 Test Cb +55°C/95%RH
Condensation:	EN 60068-2-30 Test Db RH30°C, 90-100% RH



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Part Numbers.

AMG9HMEC-1F-1S	1 × 10/100Base Ethernet, 1 × 100Base SFP, -40°C to +75°C. 12-56V_{DC} Power Input
AMG9HMEC-1G-1S	1 × 10/100/1000Base Ethernet, 1 × 1000Base SFP, -40°C to +75°C. 12-56V_{DC} Power Input
AMG9HMEC-1FH-1S-P30	1 × 10/100Base Ethernet, PoE(at), 1 × 100Base SFP, -40°C to +75°C. 48-56V_{DC} Power Input
AMG9HMEC-1GH-1S-P30	1 × 10/100/1000Base Ethernet, PoE(at), 1 × 1000Base SFP, -40°C to +75°C. 48-56V_{DC} Power Input
AMG9HMEC-1F-1SL	1 × 10/100Base Ethernet, 1 × 100Base SFP, -40°C to +75°C. 12-56V_{DC} Power Input + LLF
AMG9HMEC-1G-1SL	1 × 10/100/1000Base Ethernet, 1 × 1000Base SFP, -40°C to +75°C. 12-56V_{DC} Power Input + LLF
AMG9HMEC-1FH-1SL-P30	1 × 10/100Base Ethernet, PoE(at), 1 × 100Base SFP, -40°C to +75°C. 48-56V_{DC} Power Input + LLF
AMG9HMEC-1GH-1SL-P30	1 × 10/100/1000Base Ethernet, PoE(at), 1 × 1000Base SFP, -40°C to +75°C. 48-56V_{DC} Power Input + LLF

Recommended PSUs.

AMG2001	Standalone PSU, 15V_{DC}, 15W
AMG2004	DIN-Rail mounting PSU, 15V_{DC}, 24W
AMG2023	DIN-Rail mounting PSU, 48-56VDC, 30W

Notes.

Optional Accessories:	SFP modules - Optical/Copper see separate list, need to be ordered separately
LLF:	Link Loss Forwarding - Fibre and Copper Link failure recognition and forwarding to the remote end media converter

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