

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 x1 |  100 x1 |  Gigabit x1 |  Gigabit x1 |  Temp -40°C~+75°C |  Mounting 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 separately.

/ 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

Specifications.

Standards.

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

Interface.

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|------------------|--|
| 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.

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|-------------|--|
| Input: | 12-56V _{DC} (Non-PoE) 48-56V _{DC} (PoE) |
| Consumption | 3W Max (without PoE Load) |
| Protection | Reverse Polarity, Overload Current |

Mechanical.

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

Packaging.

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|-----------------|-------------------|
| Shipping Weight | 0.52kg |
| Dimensions | 250 × 200 × 65 mm |

Environmental.

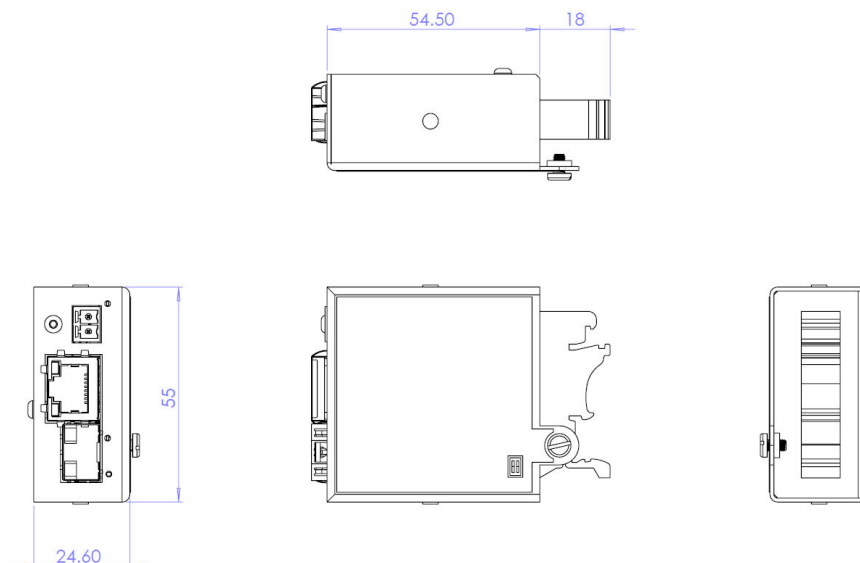
| | |
|-----------------------|----------------------------|
| Operating Temp. | -40°C to 75°C |
| Storage Temp. | -40°C to 85°C |
| Humidity | 5% to 90% (non-condensing) |
| Compliances | Reach, RoHS and WEEE |
| MTBF (Hours)* | |
| Without power adaptor | 310,000 |
| With power adaptor | 310,000 |

Regulatory.

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|-------------------|--------------|
| 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 |



Part Numbers.

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|----------------------|---|
| 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.

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

Notes.

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| 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 |