

AMG INDUSTRIAL HARDENED UNMANAGED SWITCHES



Ruggedised Industrial Ethernet Solutions

Available with 2, 4, 8, 12 and 16 Ethernet ports, AMG's Unmanaged switches provide a 100Mbps or Gigabit Ethernet uplink across Multimode or Singlemode fibre via the SFP port.



				
10/100 up to x16	Gigabit up to x16	100/1000 up to x4	Temp -40°C~+75°C	Mounting DIN/Surface

[AMG9HMU-12G-3S]

/ OVERVIEW

Every port can automatically sense your type of cable so there is no need for crossover cables whether you are connecting the switch to another switch or a computer and can also automatically sense if the connected network devices are running at 10Mbps, 100Mbps or 1000Mbps and half/full-duplex mode, and adjust accordingly.

Housed in a compact chassis, these DIN rail mountable devices are ideally suited for connecting and powering 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.

NB These products are not user programmable.

/ FEATURES

- Compact 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
- Dual Speed 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.

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	2, 4, 8, 12 or 16x 10/100TX or 10/100/1000TX RJ45 with Auto MDI/MDI-X
SFP Slot	1, 2, 3 or 4x 100/1000M
Power	1x 6 pin removable terminal block

Power.

Input	12-24V _{DC}
Consumption	5W Max
Protection	Reverse Polarity, Overload Current

Note: Redundant PSUs are not supported.

Mechanical.

Casing	Anodised Aluminium
Dimensions	W × H × D
1 SFP ports	35.2 × 121 × 95.5 mm
2 SFP ports	70.8 × 121 × 95.5 mm
3 SFP ports	106.5 × 121 × 95.5 mm
4 SFP ports	142 × 121 × 95.5 mm
Note: Depth 95.5mm includes 8mm DIN-Rail bracket.	
IP Rating	IP30
Installation	Wall Mount or DIN-Rail
Weight	up to 1kg

Packaging.

Shipping Weight	up to 1.5kg
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	>310,000 hrs

Regulatory.

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

Environmental

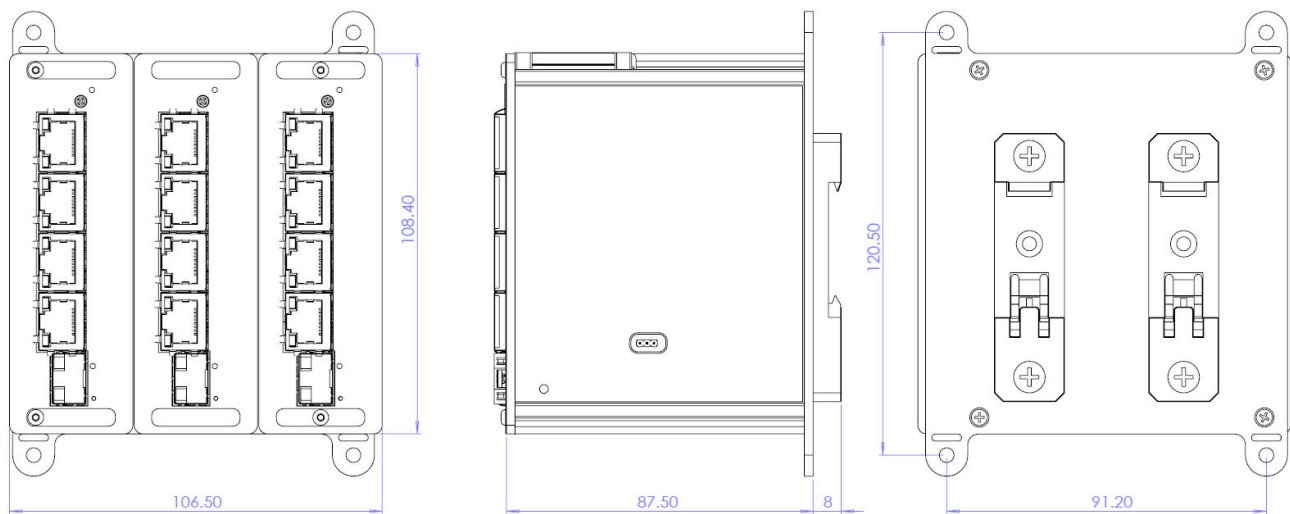
Cold:	EN 60068-2-1 Test Ab/Ad to -40°C
Hot:	EN 60068-2-2 Test Bb/Bd to +75°C
Change in temp:	EN 60068-2-14 Test Nb
Humidity:	EN 60068-2-56 Test Cb +55°C/95%RH
Condensation:	EN 60068-2-30 Test Db RH30°C, 90-100% RH

Shock and Vibration

Vibration (swept sinewave):	EN 60068-2-6 – Test Fc
Vibration (random):	EN 60068-2-64 – Test Fh
Shock:	EN 60068-2-27 – Test Ea
Altitude test:	to 5,000m
Free Fall:	IEC 60068-2-32

*Calculation model based on PoE version at 30 °C

Specifications.



Part Numbers.

AMG9HMU-2F-1S	2 × 10/100Base Ethernet & 1 × 100/1000Base SFP, -40°C to +75°C, 12-24V _{DC} Power Input
AMG9HMU-4F-1S	4 × 10/100Base Ethernet & 1 × 100/1000Base SFP, -40°C to +75°C. 12-24V _{DC} Power Input
AMG9HMU-4F-2S	4 × 10/100Base Ethernet & 2 × 100/1000Base SFP, -40°C to +75°C. 12-24V _{DC} Power Input
AMG9HMU-8F	8 × 10/100Base Ethernet, -40°C to +75°C. 12-24V _{DC} Power Input
AMG9HMU-8F-2S	8 × 10/100Base Ethernet & 2 × 100/1000Base SFP, -40°C to +75°C. 12-24V _{DC} Power Input
AMG9HMU-12F-3S	12 × 10/100Base Ethernet & 3 × 100/1000Base SFP, -40°C to +75°C. 12-24V _{DC} Power Input
AMG9HMU-16F-4S	16 × 10/100Base Ethernet & 4 × 100/1000Base SFP, -40°C to +75°C. 12-24V _{DC} Power Input
AMG9HMU-2G-1S	2 × 10/100/1000Base Ethernet & 1 × 100/1000Base SFP, -40°C to +75°C. 12-24V _{DC} Power Input
AMG9HMU-4G-1S	4 × 10/100/1000Base Ethernet & 1 × 100/1000Base SFP, -40°C to +75°C. 12-24V _{DC} Power Input
AMG9HMU-4G-2S	4 × 10/100/1000Base Ethernet & 2 × 100/1000Base SFP, -40°C to +75°C. 12-24V _{DC} Power Input
AMG9HMU-8G	8 × 10/100/1000Base Ethernet, -40°C to +75°C. 12-24V _{DC} Power Input
AMG9HMU-8G-2S	8 × 10/100/1000Base Ethernet & 2 × 100/1000Base SFP, -40°C to +75°C. 12-24V _{DC} Power Input
AMG9HMU-12G-3S	12 × 10/100/1000Base Ethernet & 3 × 100/100Base SFP, -40°C to +75°C. 12-24V _{DC} Power Input
AMG9HMU-16G-4S	16 × 10/100/1000Base Ethernet & 4 × 100/1000Base SFP, -40°C to +75°C. 12-24V _{DC} Power Input

Recommended PSUs.

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

Notes.

Other port count and various PoE options are also available.

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

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