AMG250 SERIES INDUSTRIAL MEDIA CONVERTERS WITH OPTIONAL 30/60/90W POE



Industrial Ethernet Solutions

AMG's media converters provide a multirate 100Mb/Gigabit Ethernet uplink across fibre via the SFP port with optional 30W or 60/90W PoE. Available in both single and dual channel models along with a single channel model with dual RJ45 ports provides for maximum design flexibility.















[AMG250 Series]

/ OVERVIEW

Designed in a compact DIN rail or wall mount housing, the AMG250 series media converters are ideally suited for connecting equipment to Ethernet networks over long distances using all types of fibre through the integrated SFP port(s). Fibre connectivity is determined by separate SFP device selection, providing application and site flexibility.

Available in both non-PoE models as well as PoE models for IEEE802.3at 30W or IEEE802.3bt 60/90W they are suitable for powering the latest high powered PoE devices over a wide industrial operating temperature range.

Fitted with dual redundant power inputs and power failure alarm relay ensures maximum operating reliability and the highest levels of performance.

A wide range of models are available to suit all design requirements.

SFPs and PSUs need to be ordered seperately.

/ FEATURES

- Compact size ideal for confined spaces, including camera poles and roadside cabinets
- -40°C to +75°C temperature maintains performance in extreme conditions
- Plug & Play no need for any user configuration
- DIN rail mountable quick to install and remove for maintenance
- All SFP ports are multirate 100Mb/Gigabit support single and multimode, single or dual fibre options up to 120Km
- Dual redundant power inputs with fault relay
- Supports optional 15W, 30W, 60W and 90W PoE
- Auto-Negotiation (802.3u) automatically determines the best connection speed
- Manufactured in the United Kingdom
- AMG Lifetime Support Warranty



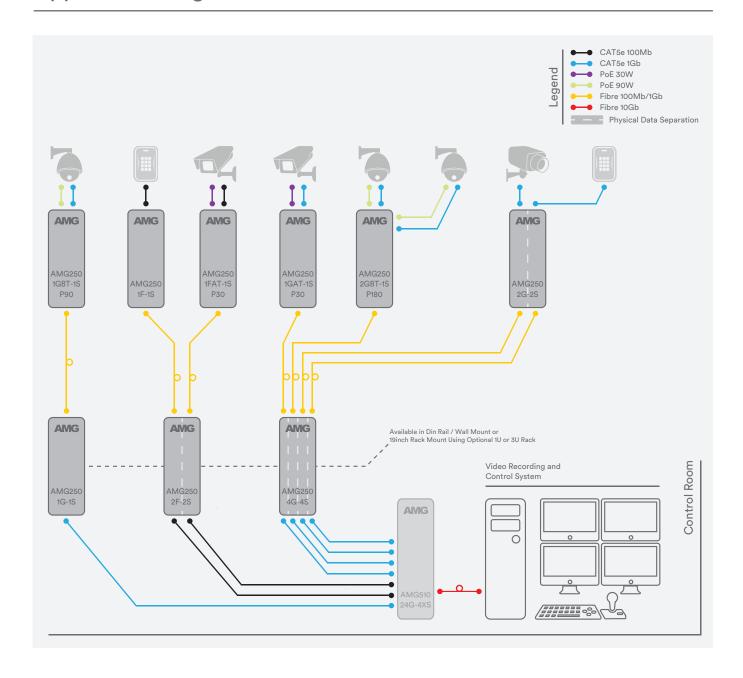
Specifications.

Shipping Weight Dimensions	0.52kg / 1.15lb (W x D x H) 175 × 160 × 50 mm	D : 1	RoHS WEEE EMA TS2 & EN 50121-4
Packaging.			IEC 60068-2-14 (Temp Chang Reach
Fault Relay	Form A 60V @ 2A Max	Vibration Environmental	IEC 60068-2-6 IEC 60068-2-1 (-40°C Cold) IEC 60068-2-2 (+75°C Hot)
30W Models 60/90W Models Protection	Mode A Mode A, Mode B Reverse Polarity, Overload Current	Shock Free Fall	EN 61000-4-6 (cs) EN 61000-4-8 (PFMF) IEC 60068-2-27 IEC 60068-2-32
Single Channel Dual Channel PSE Modes:	2W Max (without PoE Load) 4W Max (without PoE Load)		EN 61000-4-3 (RS) EN 61000-4-4 (EFT) EN 61000-4-5 (Surge)
Non-PoE Models 30W PoE Models 90W PoE Models Power Consumption	10-36V _{DC} 48-56V _{DC} 52-56V _{DC}	EMI EMS	EN 55032 Class A CISPR 32 FCC Part 15B Class A EN 61000-4-2 (ESD)
Power. Power Inputs Operating Voltage:	2	Regulatory.	IEC/EN 62368-1
SFP Slot Power/Relay	with Auto MDI/MDI-X and 1.5 kV Isolation Protection 1 or 2x 100/1000FX SFP 1x 6 pin removable terminal block with locking screws	Cooling Noise Level	109 BTU/h (1Ch 30W POE) 218 BTU/h (2Ch 30W POE) 314 BTU/h (1Ch 90W POE) 628 BTU/h (2Ch 90W POE) Passive Cooling 0 dBA
RJ45 Ports	SFP Link/Activity RJ45 Link/Activity PoE 1 or 2x 10/100TX RJ45 or 1 or 2x 10/100/1000T(X) RJ45	MTBF MTBF Standard Heat Dissipation	2,573,692 hours (Non-PoE Models) 2,332,497 hours (PoE Models) Telcordia SR-332 GF 30°C 7 BTU/h (1Ch Non-PoE) 14 BTU/h (2Ch Non-PoE)
Interface.	2x Power	Operating Temp. Storage Temp. Humidity	-40°C to +75°C -40°C to +85°C 5% to 95% (non-condensing
Jumbo Frames Address Table	9.2Kbytes 2K MAC Entries	Environmental.	0.5kg / 0.56lb
IEEE802.3ab IEEE802.3z IEEE802.3af IEEE802.3at IEEE802.3bt IEEE802.3x	1000Base-T 1000Base-X 15W PoE 30W PoE+ 60 & 90W PoE Flow Control	Including DIN & Wall Mounts IP Rating Installation Weight	35 × 88 × 108 mm 1.38 × 3.46 × 4.25 in 35 × 96 × 132 mm 1.38 × 3.78 × 5.20 in IP30 Wall Mount or DIN-Rail 0.3kg / 0.66lb
IEEE802.3i IEEE802.3u	10Base-T 100Base-TX & 100Base-FX	Housing Dimensions:	Anodised Aluminium (W x D x H)
Standards.		Mechanical.	



 $6.89 \times 6.3 \times 1.97$ in

Application Diagram.





Part Numbers.

Single Channel Media Converters (1+1)

AMG250-1F-1S	1 × 10/100BaseT(x) RJ45, 1 × 100/1000BaseFx SFP	
AMG250-1FAT-1S-P30	1 × 10/100BaseT(x) RJ45 with 30W PoE+, 1 × 100/1000BaseFx SFP	
AMG250-1FBT-1S-P90	1 × 10/100BaseT(x) RJ45 with 60/90W PoE+, 1 × 100/1000BaseFx SFP	
AMG250-1G-1S	1 × 10/100/1000BaseT(x) RJ45, 1 × 100/1000BaseFx SFP	
AMG250-1GAT-1S-P30	1 × 10/100/1000BaseT(x) RJ45 with 30W PoE+, 1 × 100/1000BaseFx SFP	
AMG250-1GBT-1S-P90	1 × 10/100/1000BaseT(x) RJ45 with 60/90W PoE+, 1 × 100/1000BaseFx SFP	

Single Channel Dual Port Media Converters (2+1)

AMG250-2F-1S	2 × 10/100BaseT(x) RJ45, 1 × 100/1000BaseFx SFP
AMG250-2FAT-1S-P60	2 × 10/100BaseT(x) RJ45 with 30W PoE+, 1 × 100/1000BaseFx SFP
AMG250-2FBT-1S-P180	2 × 10/100BaseT(x) RJ45 with 60/90W PoE+, 1 × 100/1000BaseFx SFP
AMG250-2G-1S	2 × 10/100/1000BaseT(x) RJ45, 1 × 100/1000BaseFx SFP
AMG250-2GAT-1S-P60	2 × 10/100/1000BaseT(x) RJ45 with 30W PoE+, 1 × 100/1000BaseFx SFP
AMG250-2GBT-1S-P180	2 × 10/100/1000BaseT(x) RJ45 with 60/90W PoE+, 1 × 100/1000BaseFx SFP

Dual Channel Media Converters (2+2)

AMG250-2F-2S	2 × 10/100BaseT(x) RJ45, 2 × 100/1000BaseFx SFP
AMG250-2FAT-2S-P60	2 × 10/100BaseT(x) RJ45 with 30W PoE+, 2 × 100/1000BaseFx SFP
AMG250-2FBT-2S-P180	2 × 10/100BaseT(x) RJ45 with 60/90W PoE+, 2 × 100/1000BaseFx SFP
AMG250-2G-2S	2 × 10/100/1000BaseT(x) RJ45, 2 × 100/1000BaseFx SFP
AMG250-2GAT-2S-P60	2 × 10/100/1000BaseT(x) RJ45 with 30W PoE+, 2 × 100/1000BaseFx SFP
AMG250-2GBT-2S-P180	2 × 10/100/1000BaseT(x) RJ45 with 60/90W PoE+, 2 × 100/1000BaseFx SFP

Recommended PSUs.

Non-PoE Models

AMGPS I J-112-P24

DIN-Rail Mount Indu

AMGPSU-l12-P24 DIN-Rail Mount Industrial Grade PSU, -40 to +70°C, 12VDC, 24W

PoE Models

AMGPSU-I48-P60 DIN-Rail Mounting Industrial Grade PSU, -40 to +70°C, 43-56VDC, 60W DIN-Rail Mounting Light Industrial Grade PSU, -20 to +60°C, 48-55VDC, 120W DIN-Rail Mounting Industrial Grade PSU, -40 to +70°C, 47-53VDC, 120W DIN-Rail Mounting Industrial Grade PSU, -40 to +70°C, 48-53VDC, 240W

Notes.

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

Proud to be a British Manufacturer





