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

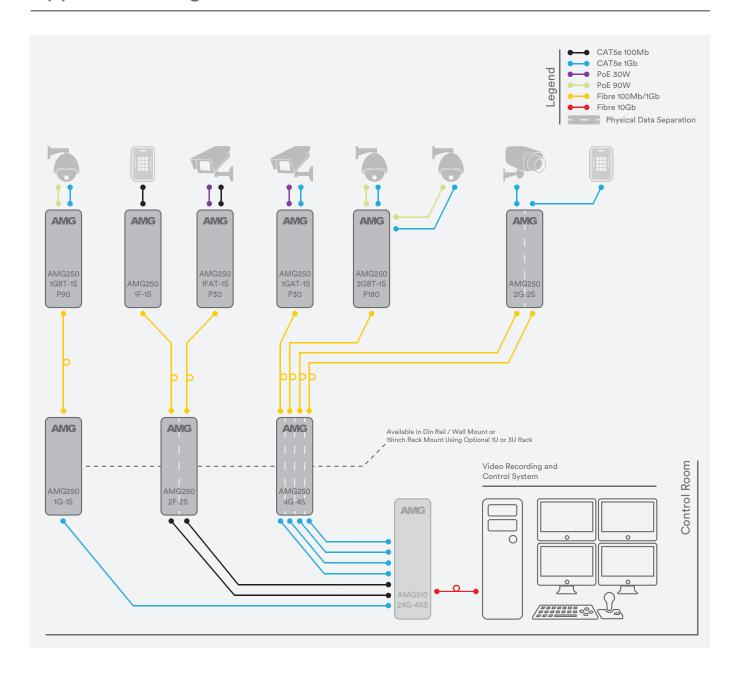


Specifications.

Standards.		Mechanical.	
IEEE802.3i IEEE802.3u IEEE802.3ab IEEE802.3z IEEE802.3af IEEE802.3at IEEE802.3bt IEEE802.3x	10Base-T 100Base-TX & 100Base-FX 1000Base-T 1000Base-X 15W PoE 30W PoE+ 60 & 90W PoE Flow Control	Housing Dimensions: Excluding DIN & Wall Mounts Including DIN & Wall Mounts IP Rating Installation Weight	Anodised Aluminium (W x D x H) 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
Jumbo Frames Address Table	9.2Kbytes 2K MAC Entries	Environmental.	
Interface.		Operating Temp.	-40°C to +75°C
LED Indicators	2x Power SFP Link/Activity	Storage Temp. Humidity MTBF	-40°C to +85°C 5% to 95% (non-condensing) 2,573,692 hours (Non-PoE Models)
RJ45 Ports	RJ45 Link/Activity PoE 1 or 2x 10/100TX RJ45 or 1 or 2x 10/100/1000T(X) RJ45 with Auto MDI/MDI-X and	MTBF Standard Heat Dissipation	2,332,497 hours (PoE Models) Telcordia SR-332 GF 30°C 7 BTU/h (1Ch Non-PoE) 14 BTU/h (2Ch Non-PoE) 109 BTU/h (1Ch 30W PoE)
SFP Slot Power/Relay	1.5 kV Isolation Protection 1 or 2x 100/1000FX SFP 1x 6 pin removable terminal block with locking screws	Cooling Noise Level	218 BTU/h (2Ch 30W POE) 314 BTU/h (1Ch 90W POE) 628 BTU/h (2Ch 90W POE) Passive Cooling 0 dBA
Power.		Pagulatan (
Power Inputs Operating Voltage: Non-PoE Models 30W PoE Models	2 10-36V _{DC} 48-56V _{DC}	Regulatory. Safety EMI	IEC/EN 62368-1 EN 55032 Class A CISPR 32
90W PoE Models Power Consumption: Single Channel Dual Channel PSE Modes:	2W Max (without PoE Load) 4W Max (without PoE Load)	EMS	FCC Part 15B Class A EN 61000-4-2 (ESD) EN 61000-4-3 (RS) EN 61000-4-4 (EFT) EN 61000-4-5 (Surge)
30W Models 60/90W Models Protection	Mode A Mode A, Mode B Reverse Polarity,	Shock	EN 61000-4-6 (cs) EN 61000-4-8 (PFMF) IEC 60068-2-27
Fault Relay	Overload Current Form A 60V @ 2A Max	Free Fall Vibration Environmental	IEC 60068-2-32 IEC 60068-2-6 IEC 60068-2-1 (-40°C Cold)
Packaging.			IEC 60068-2-2 (+75°C Hot) IEC 60068-2-14 (Temp Change Reach
Shipping Weight Dimensions	0.52kg / 1.15lb (W x D x H)		RoHS WEEE
	175 × 160 × 50 mm 6.89 × 6.3 × 1.97 in	Designed to meet N	EMA TS2 & EN 50121-4



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

AMGPSU-I12-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

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Manufacturer

