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 fiber 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 fiber through the integrated SFP port(s). Fiber 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 separately.

/ 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
- Designed in the USA & UK. Manufactured in the United Kingdom
- AMG Lifetime Support Warranty



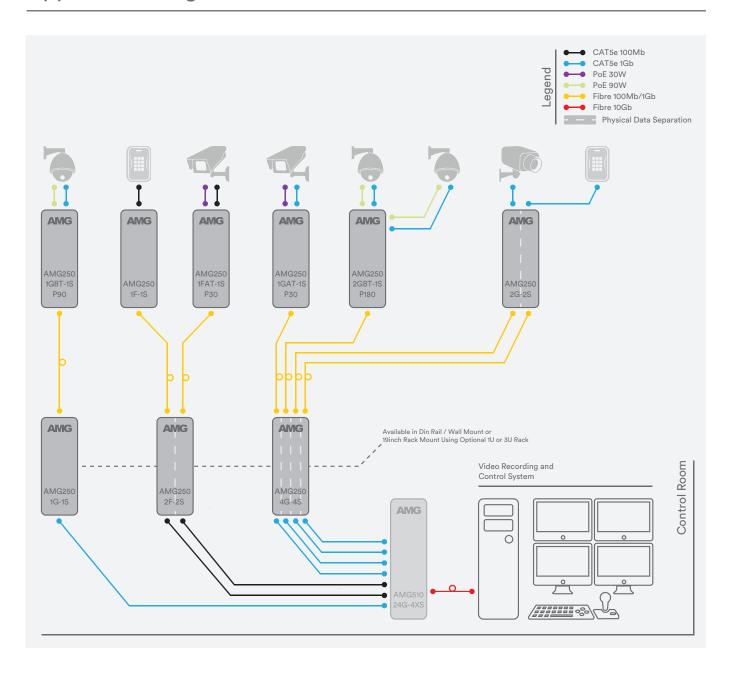
Specifications.

Standards.		Mechanical.	
	40D T		A and a district of Alice and Alice
IEEE802.3i	10Base-T	Housing	Anodised Aluminium
IEEE802.3u	100Base-TX & 100Base-FX	Dimensions:	(W x D x H)
IEEE802.3ab	1000Base-T	(Excluding DIN & Wall Mounts)	36 × 88 × 107 mm 1.42 × 3.46 × 4.21 in
IEEE802.3z IEEE802.3af	1000Base-X 15W PoE	IP Rating	1.42 × 3.46 × 4.21 m
IEEE802.3at	30W PoE+	Installation	Wall Mount or DIN-Rail
IEEE802.3bt	60 & 90W PoE	Weight	0.48kg / 1.06lb
IEEE802.3x	Flow Control		
Jumbo Frames	9.2Kbytes	Environmental.	
Address Table	2K MAC Entries		
- Tudicus Tubic	ZICIVIA CO ETICIOS	Operating Temp.	-40 to +75°C / -40 to +167°F
		Storage Temp.	-40 to +85°C / -40 to +185°F
Interface.		Humidity	5% to 95% (non-condensing
1501 "	0.0	MTBF	2,573,692 hours (Non-PoE Models)
LED Indicators	2x Power	MATRE	2,332,497 hours (PoE Models)
	SFP Link/Activity	MTBF Standard	Telcordia SR-332 GF 30°C
	RJ45 Link/Activity PoE	Heat Dissipation	7 BTU/h (1Ch Non-PoE) 14 BTU/h (2Ch Non-PoE)
RJ45 Ports	1 or 2x 10/100TX RJ45 or		109 BTU/h (1Ch 30W PoE)
	1 or 2x 10/100/1000T(X) RJ45		218 BTU/h (2Ch 30W PoE)
	with Auto MDI/MDI-X and		314 BTU/h (1Ch 90W PoE)
	1.5 kV Isolation Protection		628 BTU/h (2Ch 90W PoE)
SFP Slot	1 or 2x 100/1000FX SFP	Cooling	Passive Cooling
Power/Relay	1x 6 pin removable terminal	Noise Level	0 dBA
	block with locking screws		
Power.		Regulatory.	
i ovvoi.		Safety	IEC/EN 62368-1
Power Inputs	2	EMI	EN 55032 Class A
Operating Voltage:	_	-1411	CISPR 32
Non-PoE Models	10-36V _{DC}		FCC Part 15B Class A
30W PoE Models	48-56V _{DC}	EMS	EN 61000-4-2 (ESD)
90W PoE Models	52-56V _{DC}		EN 61000-4-3 (RS)
Power Consumption:	20		EN 61000-4-4 (EFT)
Single Channel	2W Max (without PoE Load)		EN 61000-4-5 (Surge)
Dual Channel	4W Max (without PoE Load)		EN 61000-4-6 (CS)
PSE Modes:			EN 61000-4-8 (PFMF)
30W Models	Mode A	Shock	IEC 60068-2-27
60/90W Models	Mode A, Mode B	Free Fall	IEC 60068-2-32
Protection	Reverse Polarity	Vibration	IEC 60068-2-6
Fault Dalas	Overload Current	Environmental	Reach
Fault Relay	Form A		RoHS
	60V @ 2A Max	Traffic	WEEE NEMS TS2
Packaging.		Supply Chain	NEMS TS2 NDAA & TAA Compliant
rackaging.		Designed to meet El	N 50121-4
Shipping Weight	0.60kg / 1.32lb	Designed to meet El	N 50121-4
Dimensions	$(W \times D \times H)$		



220 × 170 × 40 mm 8.66 × 6.69 × 1.57 in

Application Diagram.



Included Accessories.

DIN Rail Adapter Wall Mounting Brackets Rear Mounted Metal DIN Rail Clip & Screws For DIN Rail Mounting AMG250 Series Products 2x Wall Mouting Brackets & Screws For Wall / Surface Mouting AMG250 Series Products







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-W12-P25 Plug Top Mounting Light Industrial Grade PSU, 0 to +70°C, 12VDC, 25W, UK/EU/US Plug Heads Included 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* AMGPSU-I48-P120 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*^ AMGPSU-I48-P240

* Also available in kit form including mains line cord, DC cable and DIN rail. Order with -K at the end of the part code (e.g. AMGPSU-148-P120-K).

Optional Accessories.

AMG2035

Side Mounted Wall Bracket Adapter Kit For DIN Rail Mounting AMG250 Series Products In Depth Restricted Installations. Adapter Kit Can Be Extended Using The Included Extension Kit To Also Mount A DIN Rail Power Supply Up To 480W



[^] Also available with no exposed mains terminals and direct IEC input kit. Order with -IEC at the end of the part code (e.g. AMGPSU-I48-P120-IEC).