AMG250 SERIES INDUSTRIAL 10G MEDIA CONVERTERS WITH 30/60/90W POE

Industrial Ethernet Solutions

AMG's 10G industrial PoE media converters provide a multirate 1Gb or 10Gb Ethernet uplink across fiber via the SFP+ port with support for 30W or 60/90W PoE for maximum design flexibility.

1/10 Gb x1	**SFP+** 1/10 Gb x1	**Temp** -40°C~+75°C	**Protection** IP40	**Mounting** DIN/Surface	**Mounting** Magnetic	**PSU** x2 Dual	**NDAA/TAA** Compliant

[AMG250-1XBT-1XS-P90]

/ OVERVIEW

Designed in a compact DIN rail or wall mount housing, the AMG250 series media converters are ideally suited for connecting high speed 10Gb equipment to Ethernet networks over long distances using all types of fiber through the integrated SFP+ port. Fiber connectivity is determined by separate SFP device selection, providing application and site flexibility.

Supporting PoE 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.

AMG offers a wide range of industrial media converter models are available to suit all design requirements within the AMG250 and AMG260(M) model ranges.

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

— SFP+ port is multirate 1Gb/10Gb – support single and multimode, single or dual fibre options up to 120Km

— Supports 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.

IEEE802.3ab	1000Base-T
IEEE802.3z	1000Base-X
IEEE 802.3an	10GBase-T
IEEE 802.3ae	10GBase-R
IEEE802.3af	15W PoE
IEEE802.3at	30W PoE+
IEEE802.3bt	60 & 90W PoE

Jumbo Frames	Transparent to Jumbo Frames
VLAN Support	Transparent to VLAN traffic
Multicast Support	Transparent to Multicast traffic

Operation Modes:	1000Base-T to 1000Base-X
	10GBase-T to 10GBase-R
	(It Is Not Possible To Mix Speeds Between RJ45 & SFP)

Interface.

LED Indicators	2x Power
	RJ45 Link/Activity
	SFP Link/Activity
	PoE
	1G Operation Mode
	10G Operation Mode
RJ45 Ports	1x 1000/10G Base-T RJ45 with Auto MDI/MDI-X and 2 kV Isolation Protection
SFP Slot	1x 1000/10G Base-R SFP+
Power	1x 4-way Screw Terminal

Power.

Power Inputs	2
Operating Voltage:	
30W PoE Mode	48-56V$_{DC}$
60/90W PoE Mode	52-56V$_{DC}$
Power Consumption	9W Max (without PoE Load)
PSE Modes	Mode A, Mode B
Protection	Reverse Polarity
	Overload Current

Packaging.

Shipping Weight	0.60kg / 1.32lb
Dimensions	(W x D x H)
	220 × 170 × 40 mm
	8.66 × 6.69 × 1.57 in

Mechanical.

Housing	Anodised Aluminium
Dimensions:	(W x D x H)
Excluding DIN & Wall Mounts	37 × 88 × 107 mm
	1.46 × 3.46 × 4.21 in
IP Rating	IP40
Installation	Wall Mount or DIN-Rail
Weight	0.45kg / 0.99lb

Environmental.

Operating Temp:	
≤70W PoE Load	-40 to +75°C / -40 to +167°F
≤90W PoE Load	-40 to +60°C / -40 to +140°F
Storage Temp.	-40 to +85°C / -40 to +185°F
Humidity	5% to 95% (non-condensing)
MTBF	>511,786 hours
MTBF Standard	Telcordia SR-332 GB 50°C
Heat Dissipation	133 BTU/h (30W PoE)
	338 BTU/h (90W PoE)
Cooling	Passive Cooling
Noise Level	0 dBA

Regulatory.

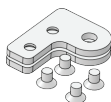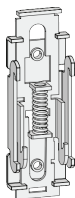| Safety	EN 62368-1
EMI	EN 55032 Class A
	CISPR 32
	FCC Part 15B Class A
EMS	EN 61000-4-2 (ESD)
	EN 61000-4-4 (EFT)
	EN 61000-4-5 (Surge)
Shock	IEC 60068-2-27
Free Fall	IEC 60068-2-32
Vibration	IEC 60068-2-6
Environmental	Reach
	RoHS
	WEEE
Supply Chain	NDAA & TAA Compliant

Designed to meet NEMA TS2 & EN 50121-4

AMG

Part Numbers.

Single Channel 10G PoE Media Converters (1+1)

AMG250-1XBT-1XS-P90	1 × 1000/10GBaseT RJ45 with 30/60/90W PoE, 1 × 1000/10GBaseR Fx SFP

Included Accessories.

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

Recommended PSUs.

AMGPSU-I48-P60A	DIN-Rail Mounting Industrial Grade PSU, -25 to +70°C, 43-55VDC, 60W*
AMGPSU-I48-P120A	DIN-Rail Mounting Industrial Grade PSU, -40 to +70°C, 48-55VDC, 120W*^

* 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-I48-P120A-K).
^ 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-P120A-IEC).

Optional Accessories.

AMGMNT-MAG-04	4x Rear Mounted Magnets & Screws Kit For AMG250 Series, need to be ordered separately
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 Additional Products or Power Supplies.