






AMG INDUSTRIAL HARDENED RACK MOUNTED MEDIA CONVERTERS



Ruggedised Industrial Ethernet Solutions

AMG's rack mounted media converters provide a 100Mbps or multirate Gigabit Ethernet uplink across fibre via the SFP port. Available in both single, dual and quad channel models along with a single channel model with dual RJ45 ports provides for maximum design flexibility.



 10/100 up to x4	 100 up to x4	 Gigabit up to x4	 100/1000 up to x4	 Temp -40°C~+75°C	 Mounting Rack
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[AMG250R Series]

/ OVERVIEW

Designed to be installed into the AMG2009, AMG2015 3U or AMG2031 1U card cages, the AMG250R 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 single, dual or quad channel formats the AMG250R series provide high density rack mounted media converter solutions.

When installed within the AMG2015-DR or AMG2031 card cages dual redundant power inputs and power failure alarm relay ensures maximum operating reliability and the highest levels of performance.

SFPs need to be ordered separately.

/ FEATURES

- Compact single slot (7HP) size – ideal for high density rack mount requirements
- -40°C to 75°C temperature – maintains performance in extreme conditions
- Non-programmable – no need for any user configuration or computer setup
- Rack mount card cages available in 1U or 3U heights
- Gigabit multirate or 100M SFP ports – support single and multimode, single or dual fibre options up to 120Km
- Gigabit or 10/100M Ethernet copper ports – high bandwidth support
- 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	1000BaseFX

Jumbo Frames	10Kbytes
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Interface.

LED Indicators

Power:	ON = Unit Powered Up
Fiber Link/Act:	ON = Link; Flashing = Activity
Copper Link/Act:	ON = Link; Flashing = Activity

RJ45 Ports	1, 2 or 4x 10/100Tx or 1, 2 or 4x 10/100/1000TX RJ45 with Auto MDI/MDI-X
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SFP Slot	1, 2 or 4x 100M or 1, 2 or 4x 100/1000M SFP
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Power	Supplied From Rack
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Note: Redundant PSUs are supported with fault alarm in AMG2015-DR and AMG2031 racks

Power.

Input and Consumption

Single Channel:	12-24V _{DC}	2W
Dual Channel:	12-24V _{DC}	4W
Quad Channel:	12-24V _{DC}	8W

Protection	Overload Current
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Mechanical.

Casing	Anodised Aluminium
Dimensions	32 x 172 x 120 mm
IP Rating	IP30
Installation	AMG Card Cages
Weight	0.55kg

Packaging.

Shipping Weight	0.75kg
Dimensions	250 x 200 x 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 (Hours)*	
Unit	609,000

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 30 °C

Part Numbers.

Single Channel Rack Mount Media Converters

AMG250R-1F-1S	1 × 10/100BaseT(x) RJ45, 1 × 100BaseFx SFP, -40°C to +75°C, Rack Mount
AMG250R-1G-1S	1 × 10/100/1000BaseT(x) RJ45, 1 × 100/1000BaseFx SFP, -40°C to +75°C, Rack Mount

Single Channel Dual Port Rack Mount Media Converters

AMG250R-2F-1S	2 × 10/100BaseT(x) RJ45, 1 × 100BaseFx SFP, -40°C to +75°C, Rack Mount
AMG250R-2G-1S	2 × 10/100/1000BaseT(x) RJ45, 1 × 100/1000BaseFx SFP, -40°C to +75°C, Rack Mount

Dual Channel Rack Mount Media Converters

AMG250R-2F-2S	2 × 10/100BaseT(x) RJ45, 2 × 100BaseFx SFP, -40°C to +75°C, Rack Mount
AMG250R-2G-2S	2 × 10/100/1000BaseT(x) RJ45, 2 × 100/1000BaseFx SFP, -40°C to +75°C, Rack Mount

Quad Channel Rack Mount Media Converters

AMG250R-4F-4S	4 × 10/100BaseT(x) RJ45, 4 × 100BaseFx SFP, -40°C to +75°C, Rack Mount
AMG250R-4G-4S	4 × 10/100/1000BaseT(x) RJ45, 4 × 100/1000BaseFx SFP, -40°C to +75°C, Rack Mount

Recommended Racks.

AMG2031	1U 19inch 3 Slot Chassis With Dual Redundant PSU Inputs, 12-24VDC
AMG2015	3U 19inch 12 Slot Chassis With Single PSU, 120-240VAC
AMG2015-DR	3U 19inch 12 Slot Chassis With Dual Redundant PSU's, 120-240VAC

Notes.

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

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