AMG250R SERIES INDUSTRIAL RACK MOUNTED MEDIA CONVERTERS



Industrial Ethernet Solutions

AMG's rack mounted media converters provide a multirate 100Mb/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.













[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 seperately.

/ FEATURES

- Compact single slot size ideal for high density rack mount requirements
- -40°C to +75°C temperature maintains performance in extreme conditions
- Plug & Play no need for any user configuration
- Rack mount card cages available in 1U or 3U heights
- All SFP ports are multirate 100Mb/Gigabit support single and multimode, single or dual fibre options up to 120Km
- Gigabit or 10/100Mb Ethernet copper ports provide high bandwidth support
- Auto-Negotiation (802.3u) automatically determines the best connection speed
- Manufactured in the United Kingdom
- AMG Lifetime Support Warranty



Specifications.

Standards.

IEEE802.3i 10Base-T

IEEE802.3u 100Base-TX & 100Base-FX

IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-X IEEE802.3x Flow Control

Jumbo Frames 9.2Kbytes

Address Table 2K MAC Entries

Interface.

LED Indicators 1x Power

SFP Link/Activity RJ45 Link/Activity

RJ45 Ports 1, 2 or 4x 10/100TX RJ45 or

1, 2 or 4x 10/100/1000T(X) RJ45 with Auto MDI/MDI-X and

1.5 kV Isolation Protection SFP Slot 1, 2 or 4x 100/1000FX SFP

Power Supplied From Rack

Front Ports 1, 2 or 4x RJ45 Ports

1 or 2x SFP Ports

Rear Ports 4x SFP Ports (Quad Channel Units Only)

Note: Redundant PSUs are supported with fault alarm in AMG2015-DR and AMG2031 racks

Power.

Power Inputs 1 or 2 (Dependent On Rack Model Used)

Operating Voltage 10-36V_{DC}

Power Consumption:

Single Channel 2W Max Dual Channel 4W Max Quad Channel 8W Max

Protection Overload Current

Packaging.

Shipping Weight 0.75kg / 1.65lb Dimensions (W x D x H)

250 × 190 × 50 mm 9.84 × 7.48 × 1.97 in Mechanical.

Casing Anodised Aluminium

Dimensions (W x D x H)

35x 172 × 128 mm 1.38 × 6.77 × 5.04 in

IP Rating IP30

Installation AMG Card Cages

Rack Slots 1

Weight 0.55kg / 1.21lb

Environmental.

Operating Temp. -40°C to +75°C Storage Temp. -40°C to +85°C

Humidity 5% to 95% (non-condensing)

MTBF 2,573,692 hours

MTBF Standard Telcordia SR-332 GF 30°C

Heat Dissipation 7 BTU/h (Single Channel)
14 BTU/h (Dual Channel)

28 BTU/h (Quad Channel)

Cooling Passive Cooling

Noise Level 0 dBA

Regulatory.

Shock

Safety IEC/EN 62368-1 EMI EN 55032 Class A

CISPR 32

FCC Part 15B Class A

EMS EN 61000-4-2 (ESD) EN 61000-4-3 (RS) EN 61000-4-4 (EFT)

> EN 61000-4-5 (Surge) EN 61000-4-6 (CS) EN 61000-4-8 (PFMF) IEC 60068-2-27

Free Fall IEC 60068-2-32
Vibration IEC 60068-2-6
Environmental IEC 60068-2-1 (-40°C cold)

IEC 60068-2-2 (+75°C Hot)

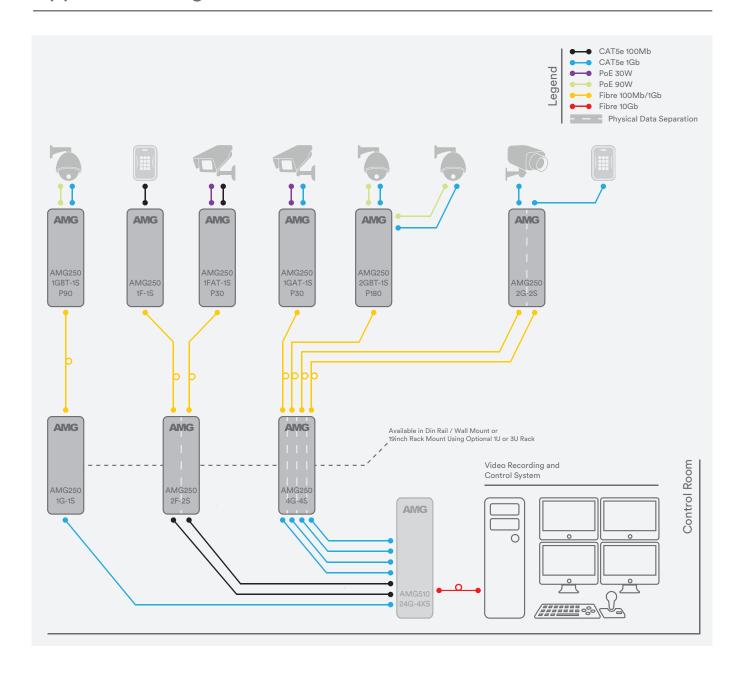
IEC 60068-2-14 (Temp Change)

Reach RoHS WEEE

Designed to meet NEMA TS2 & EN 50121-4



Application Diagram.





Part Numbers.

Single Channel Rack Mount Media Converters (1+1)

AMG250R-1F-1S	1 × 10/100BaseT(x) RJ45, 1 × 100/1000BaseFx SFP, Rack Mount
AMG250R-1G-1S	1 × 10/100/1000BaseT(x) RJ45, 1 × 100/1000BaseFx SFP, Rack Mount

Single Channel Dual Port Rack Mount Media Converters (2+1)

AMG250R-2F-1S	2 × 10/100BaseT(x) RJ45, 1 × 100/1000BaseFx SFP, Rack Mount
AMG250R-2G-1S	2 × 10/100/1000BaseT(x) RJ45, 1 × 100/1000BaseFx SFP, Rack Mount

Dual Channel Rack Mount Media Converters (2+2)

AMG250R-2F-2S	2 × 10/100BaseT(x) RJ45, 2 × 100/1000BaseFx SFP, Rack Mount
AMG250R-2G-2S	2 × 10/100/1000BaseT(x) RJ45, 2 × 100/1000BaseFx SFP, Rack Mount

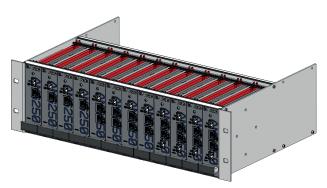
Quad Channel Rack Mount Media Converters (4+4)

AMG250R-4F-4S	4 × 10/100BaseT(x) RJ45, 4 × 100/1000BaseFx SFP, Rack Mount
AMG250R-4G-4S	4 × 10/100/1000BaseT(x) RJ45, 4 × 100/1000BaseFx SFP, Rack Mount

Recommended Racks.

AMG2031 1U 19inch 3 Slot Rack With Dual Redundant PSU Inputs, 12-24VDC (Single PSU included. Additional PSU can be ordered separately)
AMG2015 3U 19inch 12 Slot Rack With Single PSU, 100-240VAC
AMG2015-DR 3U 19inch 12 Slot Rack With Dual Redundant PSU's, 100-240VAC





AMG2015[-DR] - 3U 19inch 12 Slot Rack

Notes.

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

Proud to be a British Manufacturer



