






# AMG210M SERIES POE COMMERCIAL GRADE MINI MEDIA CONVERTERS



## Commercial Ethernet Solutions

AMG's 210M PoE series mini Ethernet media converters provide flexible options for 100Mbps and Gigabit Ethernet communication across fibre via the SFP port with intelligent configuration features such as link fault pass-through and supporting 30W PoE per port.



 Gigabit x1	 100/1000 x1	 Temp 0 ~ +50°C	 Mounting Surface	 PSU Included
---	--	---	---	---

[ AMG210M-1GAT-1S-P30 ]

### / OVERVIEW

Designed in an ultra compact housing, these mini media converters are ideally suited for connecting equipment to Ethernet networks over long distances using all types of fibre through the integrated SFP port.

User selectable DIP switches allow for configuration of advanced features such as link fault pass-through, automatic laser shutdown, SFP reset and SFP speed selection.

Industry standard IEEE 802.3at 30W PoE+ is supported on each RJ45 port for powering remote devices.

The mini media converters can be used standalone or wall mounted using the integrated wall mounting holes.

PSUs are included with each unit and SFPs can either be included (depending on model ordered) or can be ordered separately allowing for selection from AMG's extensive range of SFP modules to suit any application.

### / FEATURES

- Ultra Compact size – ideal for confined spaces, and provides highly cost effective solutions
- Auto-Negotiation – automatically determines the best connection speed
- Wall mountable using the integrated mounting holes
- IEEE 802.3at 30W PoE+ supported on each port
- 100Mb or 1000Mb SFP port supports singlemode and multimode, single or dual fibre options up to 120Km either included or ordered separately
- Supports Jumbo Frames up to 9.6K bytes
- Intelligent features supported including link fault pass-through, automatic laser shutdown, SFP reset and SFP speed selection.
- AMG 3 Year 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
IEEE802.3af	15W PoE
IEEE802.3at	30W PoE+

Jumbo Frames	9.6Kbytes
Address Table	1K MAC Entries

## Interface.

LED Indicators	1x Power SFP Link/Activity RJ45 Link/Activity RJ45 Speed RJ45 Duplex PoE
RJ45 Ports	1x 10/100/1000T(X) RJ45 with Auto MDI/MDI-X and 1.5 kV Isolation Protection
SFP Slot	1x 100/1000FX SFP with DIP switch speed selection
Power	1x 2.1mm Input Socket

## Power.

Power Inputs	1
Operating Voltage	48-56V <sub>DC</sub>
Power Consumption	3W Max (without PoE Load)
PSE Mode	Mode A
Protection	Overload Current

## Mechanical.

Housing	Metal
Dimensions	(W x D x H) 94 x 71 x 26 mm 3.70 x 2.80 x 1.02 in
IP Rating	IP30
Installation	Surface or Wall Mount
Weight	0.2kg / 0.44lb

## Packaging.

Shipping Weight	0.68kg / 1.50lb
Dimensions	(W x D x H) 184 x 98 x 92 mm 7.24 x 3.86 x 3.62 in

## Environmental.

Operating Temp.	0°C to 50°C
Storage Temp.	-20°C to 70°C
Humidity	5% to 90% (non-condensing)
MTBF	100,819 Hours
MTBF Standard	Telcordia SR-332 GB 25°C
Heat Dissipation	113 BTU/h (With 30W PoE)
Cooling	Passive Cooling
Noise Level	0 dBA

## Regulatory.

Electrical Safety	IEC/BS/EN 62368-1 (UKCA)
EMI	EN55032 Class B EN55035, EN55024 FCC Part 15 Class B
EMS	EN61000-3-2 EN61000-3-3
Environmental	Reach RoHS WEEE

# Part Numbers.

---

## 100Mb/1Gb Multirate Mini PoE Media Converters

AMG210M-1GAT-1S-P30	1 × 10/100/1000BaseT(x) 30W, 1 × 100/1000BaseFx SFP (SFP purchased separately)
---------------------	--

## 100Mb Mini PoE Media Converters (100Mb SFP Included)

AMG210M-1FAT-1SM2-P30	1 × 10/100/1000BaseT(x) 30W, 1 × 100BaseFx Multimode 2 Fibres 1310nm 2Km LC
AMG210M-1FAT-1SM1A-P30	1 × 10/100/1000BaseT(x) 30W, 1 × 100BaseFx Multimode 1 Fibre 1310nm 2Km LC
AMG210M-1FAT-1SM1B-P30	1 × 10/100/1000BaseT(x) 30W, 1 × 100BaseFx Multimode 1 Fibre 1550nm 2Km LC
AMG210M-1FAT-1SS2-P30	1 × 10/100/1000BaseT(x) 30W, 1 × 100BaseFx Singlemode 2 Fibres 1310nm 20Km LC
AMG210M-1FAT-1SS1A-P30	1 × 10/100/1000BaseT(x) 30W, 1 × 100BaseFx Singlemode 1 Fibre 1310nm 20Km LC
AMG210M-1FAT-1SS1B-P30	1 × 10/100/1000BaseT(x) 30W, 1 × 100BaseFx Singlemode 1 Fibre 1550nm 20Km LC

## 1Gb Mini PoE Media Converters (1Gb SFP Included)

AMG210M-1GAT-1SM2-P30	1 × 10/100/1000BaseT(x) 30W, 1 × 1000BaseFx Multimode 2 Fibres 850nm 550M LC
AMG210M-1GAT-1SM1A-P30	1 × 10/100/1000BaseT(x) 30W, 1 × 1000BaseFx Multimode 1 Fibre 1310nm 1Km LC
AMG210M-1GAT-1SM1B-P30	1 × 10/100/1000BaseT(x) 30W, 1 × 1000BaseFx Multimode 1 Fibre 1550nm 1Km LC
AMG210M-1GAT-1SS2-P30	1 × 10/100/1000BaseT(x) 30W, 1 × 1000BaseFx Singlemode 2 Fibres 1310nm 20Km LC
AMG210M-1GAT-1SS1A-P30	1 × 10/100/1000BaseT(x) 30W, 1 × 1000BaseFx Singlemode 1 Fibre 1310nm 20Km LC
AMG210M-1GAT-1SS1B-P30	1 × 10/100/1000BaseT(x) 30W, 1 × 1000BaseFx Singlemode 1 Fibre 1550nm 20Km LC

# Notes.

---

Included Accessories      Integrated wall mount holes and region specific 52VDC in-line power supply (UK / EU / US plug type, depending on region)

*In a continuing effort to improve and advance technology, product specifications are subject to change without notice. Please visit [www.amgsystems.com](http://www.amgsystems.com) for the latest product specifications.*