AMG210M SERIES COMMERCIAL GRADE MINI MEDIA CONVERTERS

Commercial Ethernet Solutions

AMG's 210M series mini Ethernet media converters provide flexible options for 100Mbps, Gigabit or 10 Gigabit Ethernet communication across fibre via the SFP or SFP+ port with intelligent configuration features such as link fault pass-through.

10/100 x1	100 x1	Gigabit up to x2	100/1000 x1	1/10 Gb x1	1/10 Gb x1	Temp 0 ~ +50°C	Mounting Rack/Wall	PSU Included

[AMG210M Series]

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 or SFP+ port.

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

The 10Gb models support 1G, 2.5G, 5G & 10G modes as well as 3R functions for equalization amplification, clock extraction and integer regeneration for the highest 10G data performance with low transmission jitter.

The mini media coverters can be used standalone, wall mounted using the included mounting kit or can be installed within an AMG210C chassis where up to 12 units can be located within a 1U 19inch rack space. The chassis solution provides ultra high density rack mount options.

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 included wall bracket

— Rack mountable using the optional 19 inch 1U chassis

— 100Mb, Multirate 100/1000Mb or 1/2.5/10Gb SFP(+) port supports singlemode and multimode, single or dual fibre options up to 120Km either included or ordered separately

— Single or dual Ethernet copper ports – high bandwidth support up to 10G BASE-T

— Supports Jumbo Frames up to 16K bytes

— Intelligent features supported including link fault pass-through, port isolation and many others.

— AMG 3 Year Support Warranty

Specifications.

Standards.

IEEE802.3i	10BaseT
IEEE802.3u	100BaseTX & 100BaseFX
IEEE802.3ab	1000BaseT
IEEE802.3z	1000BaseX
IEEE802.3bz	2.5/5GBaseT
IEEE802.3an	10GBaseT
IEEE802.3ae	10GBaseR
IEEE802.3x	Flow Control

Jumbo Frames	2Kbytes (100Mb Models)
	9.6Kbytes (1Gb Models)
	16Kbytes (10Gb Models)

Interface.

LED Indicators	Power
	SFP/SFP+ Link/Activity
	RJ45 Link/Activity
	RJ45 Speed
RJ45 Ports	1x 10/100TX or
	1x 10/100/1000BASE-T(X) or
	2x 10/100/1000BASE-T(X) or
	1x 100/1000/2.5G/5G/10GBASE-T
	with Auto MDI/MDI-X
SFP Ports	1x 100BASE-FX or
	1x 100/1000BASE-FX
	with DIP switch speed selection
SFP+ Ports	1x 1/2.5GBASE-FX/10GBASE-R
	with DIP switch speed selection
Power	1x 2.1mm Input Socket

Power.

Operating Voltage	5-12V$_{DC}$ or 6-12V$_{AC}$
Power Consumption	3W Max (100Mb & 1Gb Models)*
	5W Max (10Gb Models)*
	*Excludes SFP/SFP+ Module

Mechanical.

Housing	Metal
Dimensions	(W x D x H)
	90 × 60 × 20 mm
	3.54 × 2.36 × 0.79 in
IP Rating	IP30
Installation	Surface, Wall Mount or
	Rack Mount* (*requires optional chassis)
Weight	0.12kg / 0.26lb

Packaging.

Shipping Weight	0.35kg / 0.77lb
Dimensions	(W x D x H)
	131 × 82 × 80 mm
	5.16 × 3.23 × 3.15 in

Environmental.

Operating Temp.	0°C to 50°C
Storage Temp.	-20°C to 70°C
Humidity	5% to 90% (non-condensing)
Compliances	Reach, RoHS and WEEE
MTBF	>80,000 Hours

Regulatory.

Electrical Safety	CE/EN60950-1
Immunity	EN55022
	EN55024
Emissions	EN61000-3-2
	EN61000-3-3
	FCC Part 15
RoHS	IEC62321

AMG Systems Ltd. 3 The Omega Centre, Stratton Business Park, Biggleswade, Bedfordshire, SG18 8QB, UK
T :: +44 (0) 1767 600 777   E :: sales@amgsystems.com
D39119-01   amgsystems.com
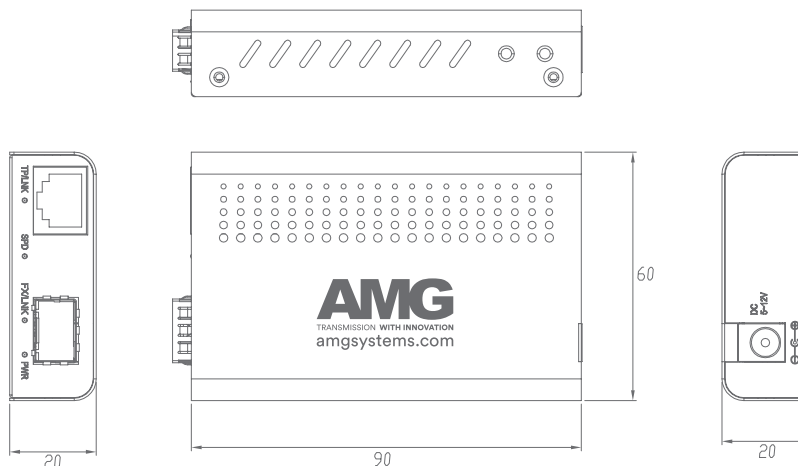
Part Numbers.

100Mb Mini Media Converters

AMG210M-1F-1S	1 × 10/100BaseT(x) RJ45, 1 × 100BaseFx SFP (SFP purchased separately)
AMG210M-1F-1SM2	1 × 10/100BaseT(x) RJ45, 1 × 100BaseFx Multimode 2 Fibres 1310nm 2Km LC Connectors
AMG210M-1F-1SM1A	1 × 10/100BaseT(x) RJ45, 1 × 100BaseFx Multimode 1 Fibre 1310nm 2Km LC Connector
AMG210M-1F-1SM1B	1 × 10/100BaseT(x) RJ45, 1 × 100BaseFx Multimode 1 Fibre 1550nm 2Km LC Connector
AMG210M-1F-1SS2	1 × 10/100BaseT(x) RJ45, 1 × 100BaseFx Singlemode 2 Fibres 1310nm 20Km LC Connectors
AMG210M-1F-1SS1A	1 × 10/100BaseT(x) RJ45, 1 × 100BaseFx Singlemode 1 Fibre 1310nm 20Km LC Connector
AMG210M-1F-1SS1B	1 × 10/100BaseT(x) RJ45, 1 × 100BaseFx Singlemode 1 Fibre 1550nm 20Km LC Connector

1Gb Multirate Mini Media Converters

AMG210M-1G-1S	1 × 10/100/1000BaseT(x) RJ45, 1 × 100/1000BaseFx SFP (SFP purchased separately)
AMG210M-1G-1SM2	1 × 10/100/1000BaseT(x) RJ45, 1 × 1000BaseFx Multimode 2 Fibres 850nm 550M LC Con.
AMG210M-1G-1SM1A	1 × 10/100/1000BaseT(x) RJ45, 1 × 1000BaseFx Multimode 1 Fibre 1310nm 1Km LC Connector
AMG210M-1G-1SM1B	1 × 10/100/1000BaseT(x) RJ45, 1 × 1000BaseFx Multimode 1 Fibre 1550nm 1Km LC Connector
AMG210M-1G-1SS2	1 × 10/100/1000BaseT(x) RJ45, 1 × 1000BaseFx Singlemode 2 Fibres 1310nm 20Km LC Con.
AMG210M-1G-1SS1A	1 × 10/100/1000BaseT(x) RJ45, 1 × 1000BaseFx Singlemode 1 Fibre 1310nm 20Km LC Connector
AMG210M-1G-1SS1B	1 × 10/100/1000BaseT(x) RJ45, 1 × 1000BaseFx Singlemode 1 Fibre 1550nm 20Km LC Connector

1Gb Dual Port Multirate Mini Media Converters

AMG210M-2G-1S	2 × 10/100/1000BaseT(x) RJ45, 1 × 100/1000BaseFx SFP (SFP purchased separately)
AMG210M-2G-1SM2	2 × 10/100/1000BaseT(x) RJ45, 1 × 1000BaseFx Multimode 2 Fibres 850nm 550M LC Con.
AMG210M-2G-1SM1A	2 × 10/100/1000BaseT(x) RJ45, 1 × 1000BaseFx Multimode 1 Fibre 1310nm 1Km LC Connector
AMG210M-2G-1SM1B	2 × 10/100/1000BaseT(x) RJ45, 1 × 1000BaseFx Multimode 1 Fibre 1550nm 1Km LC Connector
AMG210M-2G-1SS2	2 × 10/100/1000BaseT(x) RJ45, 1 × 1000BaseFx Singlemode 2 Fibres 1310nm 20Km LC Con.
AMG210M-2G-1SS1A	2 × 10/100/1000BaseT(x) RJ45, 1 × 1000BaseFx Singlemode 1 Fibre 1310nm 20Km LC Con.
AMG210M-2G-1SS1B	2 × 10/100/1000BaseT(x) RJ45, 1 × 1000BaseFx Singlemode 1 Fibre 1550nm 20Km LC Con.

10Gb Multirate Mini Media Converters

AMG210M-1X-1XS	1 × 100/1000/2.5G/5G/10GBaseT RJ45, 1 × 1000Fx/2.5GFx/10GBaseR SFP+ (SFP purchased separately)

Recommended Chassis.

AMG210C Series	1U 19inch Chassis with 12 slots for AMG210M series media converters, Dual redundant 60W PSU's

Notes.

Included Accessories	Wall mount bracket and region specific DC 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 for the latest product specifications.

AMG