AMG260 SERIES INDUSTRIAL 2+2 DUAL MEDIA CONVERTER / UNMANAGED SWITCH WITH OPTIONAL 30/60/90W POE OR PD

Industrial Ethernet Solutions

AMG's media converters provide 2 channels of multirate 100Mb/Gigabit Ethernet uplinks over fiber via the SFP ports or operate as a 4 port unmanaged switch with optional 30W or 60/90W PoE or PD. Additional features are supported by user-configurable DIP switches for advanced functionality.

Gigabit up to x2	Gigabit x2	Gigabit x2	Gigabit x1	100/1000 x2	Features DIP Switch	Contacts 1x Fault	Temp -40°C~+75°C	Protection IP40	Mounting DIN/Surface	NDAA/TAA Compliant

[AMG260-2GBT-2S-P180]

/ OVERVIEW

Designed in a compact DIN rail or wall mount housing, the AMG260 series media converters are ideally suited for connecting 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.

Available in both non-PoE models as well as PoE models 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. A PoE PD powered model is also available for installation in locations without any local power.

User selectable DIP switches allow for configuration of the intelligent link fault pass-through feature for remote end failure detection as well as remote device reset to allow end device reboots from the control room and 250M extended distance mode on the RJ45 port. Dual media converter, redundant SFP and unmanaged switch modes are also selectable using the DIP switches.

A wide range of models are available to suit all design requirements and are fully compatible with all of the AMG250/260/260B/260M model ranges.

/ FEATURES

— Compact size – ideal for confined spaces, including camera housings and roadside cabinets

— -40°C to +75°C temperature maintains performance in extreme conditions

— DIN rail or wall mountable - quick to install and remove for maintenance (an optional magnetic mount is also available)

— All SFP ports are multirate 100Mb/Gigabit – support single and multimode, single or dual fiber options up to 120Km

— DIP switch selection of link fault pass-through, remote device reset and extended distance etc.

— Supports optional 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.

IEEE802.3i	10Base-T
IEEE802.3u	100Base-TX & 100Base-FX
IEEE802.3ab	1000Base-T
IEEE802.3z	1000Base-X
IEEE802.3af	15W PoE
IEEE802.3at	30W PoE+
IEEE802.3bt	60 & 90W PoE
IEEE802.3x	Flow Control
Jumbo Frames	9.2Kbytes
Address Table	2K MAC Entries

Interface.

LED Indicators	2x Power
	Status
	SFP Link/Activity
	RJ45 Link/Activity
	PoE or PD
	Alarm
RJ45 Ports	2x 10/100/1000T(X) RJ45 with Auto MDI/MDI-X and 2 kV Isolation Protection
SFP Slot	2x 100/1000FX SFP
Power	2x 2-way Screw Terminal
Fault Relay	1x 4-way Screw Terminal

Switches.

Switch	1x 10 Position DIP Switch (Optional DIP Switch Security Cover Is Available)
Switch Functions*	Local/Remote Mode
	Link Fault Pass-Through Mode
	Remote Reset Mode
	Extended Distance Mode
	Directed Traffic Mode
	Unmanaged Switch Mode
	Dual Media Converter Mode
	Redundant SFP Mode
	Redundancy F1 Revert Mode
	Fault Relay Mode

*Not all switch functions can be used at the same time. Consult the product manual or contact AMG Technical Services for further clarification.

Packaging.

Shipping Weight:	0.68kg / 1.50lb
Dimensions: (W x D x H)	220 × 170 × 80 mm 8.66 × 6.69 × 3.15 in

Alarm Inputs & Outputs.

Fault Inputs	1x Dry Input ^
Alarm Outputs	1x Form A Relay Normally Closed
Output Rating	400V$_{DC}$ @ 100mA Max
On Resistance	8Ω Typical

Power.

Power Inputs	2
Operating Voltage:	
Non-PoE Models	12-56V$_{DC}$
30W PoE Models	48-56V$_{DC}$
90W PoE Models	52-56V$_{DC}$
PoE PD Models	IEEE 802.3af Class 1 Device
Power Consumption	4W Max (without PoE Load)
PSE Modes:	
30W Models	Mode A
60/90W Models	Mode A, Mode B
Protection	Reverse Polarity Overload Current

Mechanical.

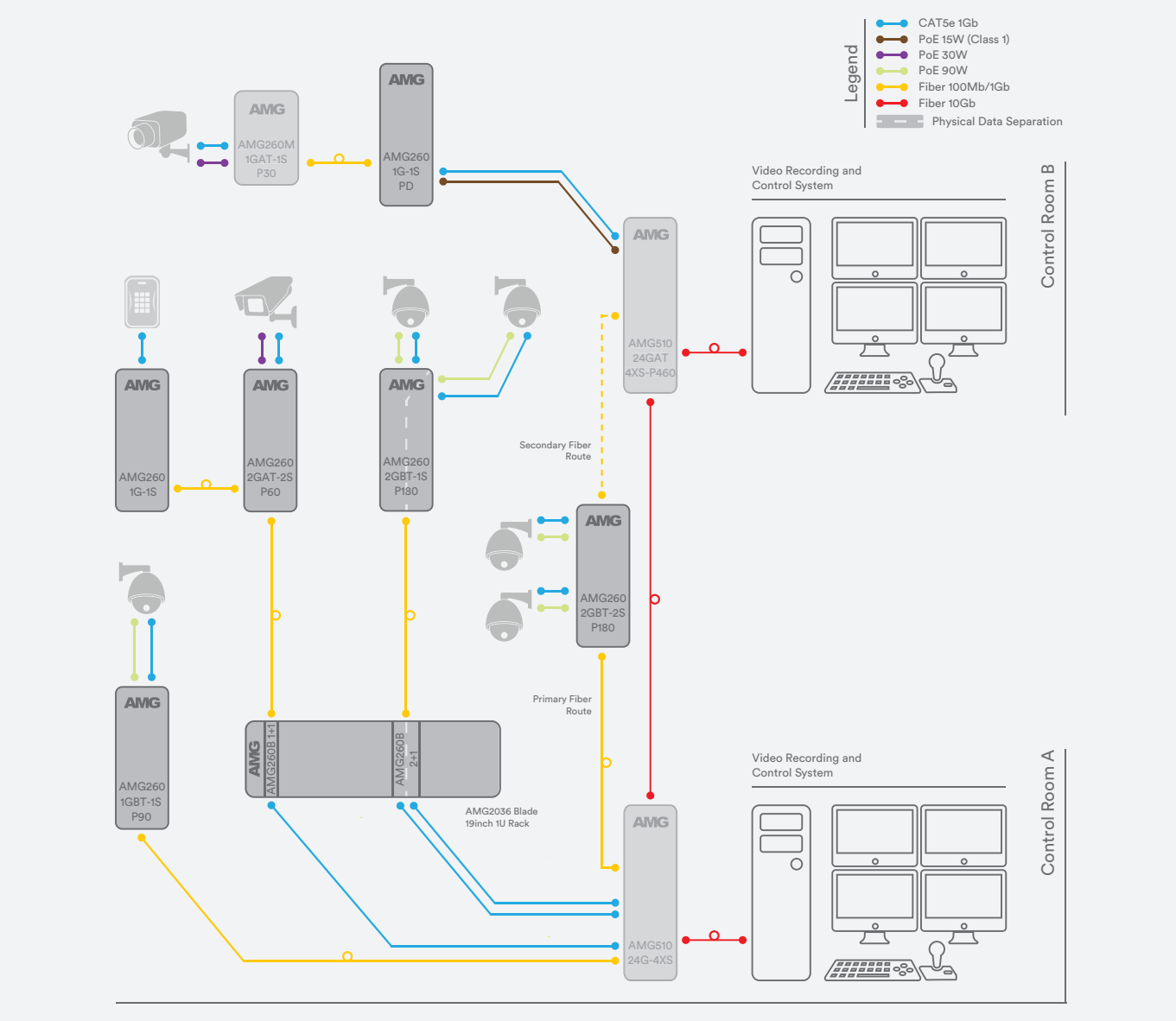| Housing	Anodised Aluminium
Dimensions: (W x D x H)	46 × 88 × 107 mm 1.81 × 3.46 × 4.21 in
IP Rating	IP40
Installation	Wall Mount or DIN-Rail Optional Magnetic Mounts
Weight	0.49kg / 1.08lb

Environmental.

Operating Temp.	-40 to +75°C / -40 to +167°F
Storage Temp.	-40 to +85°C / -40 to +185°F
Humidity	5% to 95% (non-condensing)
MTBF	>500,000 hours
MTBF Standard	Telcordia SR-332 GF 30°C
Heat Dissipation	14 BTU/h (Non-PoE & PD)
	218 BTU/h (30W PoE Models)
	628 BTU/h (90W PoE Models)
Cooling	Passive Cooling
Noise Level	0 dBA

^ Reserved For Future Use

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Specifications.

Regulatory.

Safety	IEC/EN 62368-1	Shock	IEC 60068-2-27
EMI	EN 55032 Class A	Free Fall	IEC 60068-2-32
	CISPR 32	Vibration	IEC 60068-2-6
	FCC Part 15B Class A	Environmental	Reach
EMS	EN 61000-4-2 (ESD)		RoHS
	EN 61000-4-3 (RS)		WEEE
	EN 61000-4-4 (EFT)	Supply Chain	NDAA & TAA Compliant
	EN 61000-4-5 (Surge)		
	EN 61000-4-6 (CS)	Designed to meet NEMA TS2 & EN 50121-4	
	EN 61000-4-8 (PFMF)		

Application Diagram.

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D33883-01   amgsystems.com

Part Numbers.

Dual Channel Media Converters / Unmanaged Switches (2+2)

AMG260-2G-2S*	2 × 10/100/1000BaseT(x) RJ45, 2 × 100/1000BaseFx SFP
AMG260-2GAT-2S-P60*	2 × 10/100/1000BaseT(x) RJ45 with 30W PoE+, 2 × 100/1000BaseFx SFP
AMG260-2GBT-2S-P180*	2 × 10/100/1000BaseT(x) RJ45 with 60/90W PoE, 2 × 100/1000BaseFx SFP
AMG260-2G-2S-PD*	1 × 10/100/1000BaseT(x) RJ45 with PoE PD Class 1 Input, 1 × 10/100/1000BaseT(x) RJ45, 2 × 100/1000BaseFx SFP

* For conformal coated circuit boards please add /C to the end of the part code. For example AMG260-2GBT-2S-P180/C
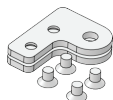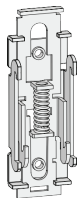
Included Accessories.

DIN Rail Adapter   Rear Mounted Metal DIN Rail Clip & Screws For DIN Rail Mounting AMG260 Series Products
Wall Mounting Brackets 2x Wall Mouting Brackets & Screws For Wall / Surface Mouting AMG260 Series Products

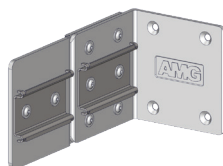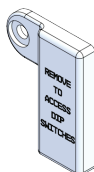# Optional Accessories.

AMG260-DIPCOVER   10-Way DIP Switch Security Cover With T8 Allen Key For AMG260 Series, need to be ordered separately
AMGMNT-MAG-04   4x Rear Mounted Magnets & Screws Kit For AMG260 Series, need to be ordered separately
AMG2035   Side Mounted Wall Bracket Adapter Kit For DIN Rail Mounting AMG260 Series Products In Depth Restricted Installations. Adapter Kit Can Be Extended Using The Included Extension Kit To Also Mount A DIN Rail Power Supply Up To 480W
SFP Modules   100Mb & 1Gb Optical/Copper Modules see separate list, need to be ordered separately

Recommended PSUs.

Non-PoE Models
AMGPSU-W12-P25   Plug Top Mounting Lite Industrial Grade PSU, 0 to +70°C, 12VDC, 25W, NDAA Compliant, UK/EU/US Plug Heads Included
AMGPSU-I12-P24A   DIN-Rail Mount Industrial Grade PSU, -25 to +70°C, 12VDC, 24W, NDAA Compliant*
AMGPSU-T12-P15   DIN-Rail Mount Industrial Grade PSU, -25 to +70°C, 12VDC, 15W, NDAA & TAA Compliant*

PoE Models
AMGPSU-I48-P60A   DIN-Rail Mounting Industrial Grade PSU, -25 to +70°C, 43-55VDC, 60W, NDAA Compliant*
AMGPSU-T48-P60   DIN-Rail Mounting Industrial Grade PSU, -25 to +70°C, 41-55VDC, 60W, NDAA & TAA Compliant*
AMGPSU-I48-P120A   DIN-Rail Mounting Industrial Grade PSU, -40 to +70°C, 48-55VDC, 120W, NDAA Compliant*^
AMGPSU-I48-P145   DIN-Rail Mounting Industrial Grade PSU, -25 to +70°C, 48-55VDC, 145W, NDAA & TAA Compliant*
AMGPSU-I48-P240A   DIN-Rail Mounting Industrial Grade PSU, -40 to +70°C, 48-55VDC, 240W, NDAA Compliant*^
AMGPSU-I48-P290   DIN-Rail Mounting Industrial Grade PSU, -25 to +70°C, 48-55VDC, 290W, NDAA & TAA Compliant*

* 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).

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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.

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