AMG260 SERIES INDUSTRIAL MEDIA CONVERTER WITH OPTIONAL 30/60/90W POE OR PD

Industrial Ethernet Solutions

AMG's media converters provide 1 or 2 ports of multirate 100Mb/Gigabit Ethernet uplink over fiber via 1 or 2 SFP ports with optional 30W or 60/90W PoE or PD. Additional features are supported by user-configurable DIP switches for advanced functionality including redundant SFP uplinks etc.

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

[AMG260-2GBT-1S-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 1 or 2 SFP ports. 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. PoE PD powered models are 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 dual redundant SFP uplinks which can provide fail over resilinace in the event of a fiber route failure.

A wide range of models are available to suit all design requirements and are fully compatible with all of the AMG250/260B/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 redundant SFP uplink 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

AMG Systems Ltd. 4 Pioneer Way, Castleford, WF10 5QU, UK T: +44 (0) 1767 600 777 E: sales@amgsystems.com
AMG Systems Inc. 62 Spring Hill Road, Trumbull, CT 06611, USA T: +1-855-AMGPOE1 (855-264-7631) E: sales@amgsystems.com

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	1 or 2x 10/100TX RJ45 or 1 or 2x 10/100/1000T(X) RJ45 with Auto MDI/MDI-X and 2 kV Isolation Protection
SFP Slot	1 or 2x 100/1000FX SFP
Power	2x 2-way Screw Terminal (Not Present On PD Models)
Fault Relay	1x 4-way Screw Terminal

Switches.

Switch	1x 10 Position DIP Switch
Switch Functions	Link Fault Pass-Through Mode Remote Reset Mode Extended Distance Mode Redundant SFP Mode Mux Mode Demux Mode SFP Alarm

Packaging.

Shipping Weight	0.60kg / 1.32lb
Dimensions	(W x D x H) 220 × 170 × 40 mm 8.66 × 6.69 × 1.57 in

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:	
Single SFP Port	2.5W Max (without PoE Load)
Dual SFP Ports	5W 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)
Single SFP Port	36 × 88 × 107 mm 1.42 × 3.46 × 4.21 in
Dual SFP Ports	36 × 88 × 107 mm 1.42 × 3.46 × 4.21 in
IP Rating	IP40
Installation	Wall Mount or DIN-Rail Optional Magnetic Mounts
Weight	0.48kg / 1.06lb

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	17 BTU/h (Non-PoE & PD) 119 BTU/h (Single 30W PoE) 324 BTU/h (Single 90W PoE) 222 BTU/h (Dual 30W PoE) 631 BTU/h (Dual 90W PoE)
Cooling	Passive Cooling
Noise Level	0 dBA

AMG Systems Ltd. 4 Pioneer Way, Castleford, WF10 5QU, UK T: +44 (0) 1767 600 777 E: sales@amgsystems.com
AMG Systems Inc. 62 Spring Hill Road, Trumbull, CT 06611, USA T: +1-855-AMGPOE1 (855-264-7631) E: sales@amgsystems.com

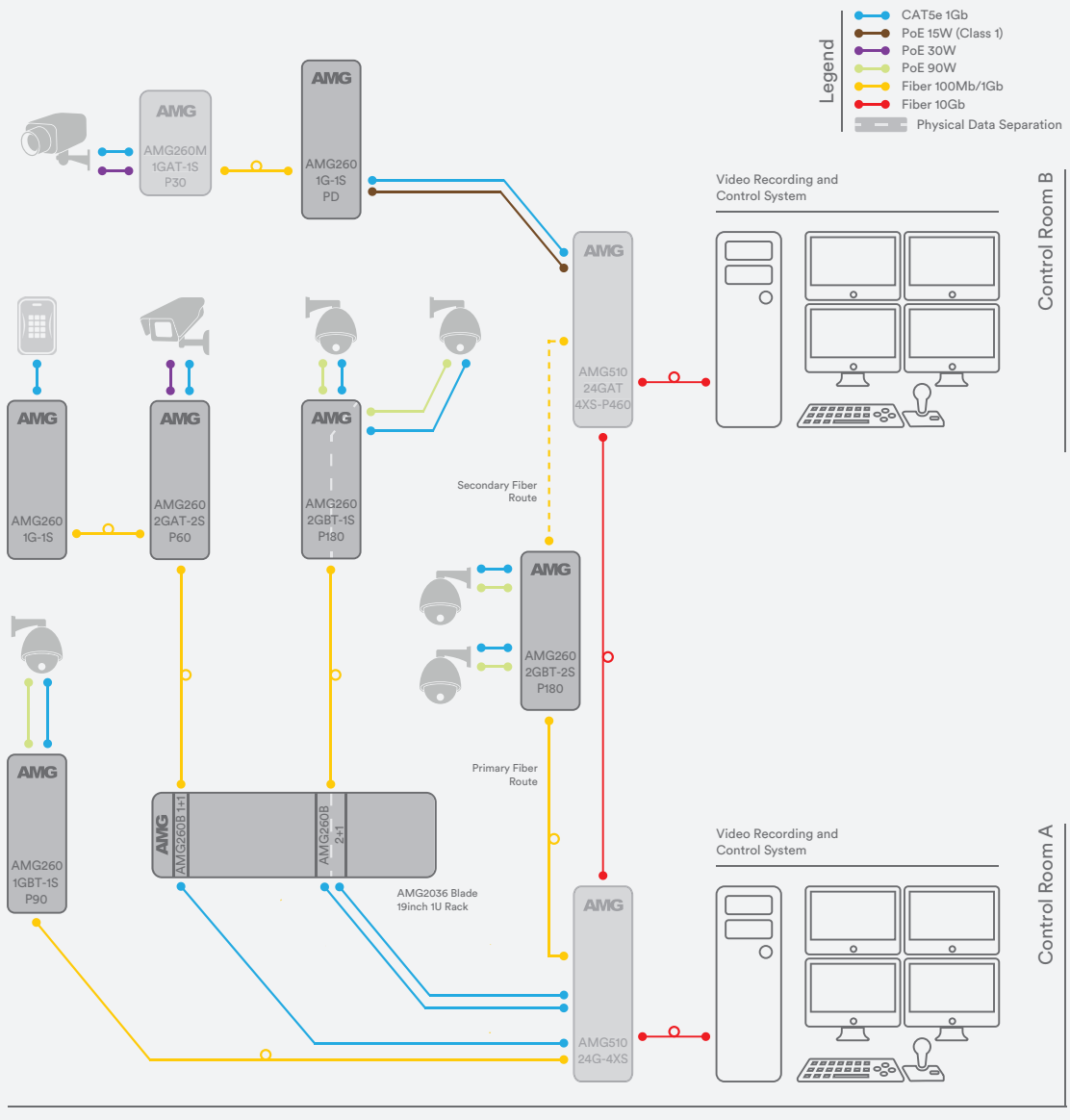
Specifications.

Regulatory.

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)
Shock	IEC 60068-2-27
Free Fall	IEC 60068-2-32
Vibration	IEC 60068-2-6
Environmental	Reach RoHS WEEE
Supply Chain	NDAA & TAA Compliant

Designed to meet NEMA TS2 & EN 50121-4

Application Diagram.



AMG Systems Ltd. 4 Pioneer Way, Castleford, WF10 5QU, UK T: +44 (0) 1767 600 777 E: sales@amgsystems.com
AMG Systems Inc. 62 Spring Hill Road, Trumbull, CT 06611, USA T: +1-855-AMGPOE1 (855-264-7631) E: sales@amgsystems.com

Part Numbers.

Single Port Media Converters (1+1)

AMG260-1G-1S	1 × 10/100/1000BaseT(x) RJ45, 1 × 100/1000BaseFx SFP
AMG260-1GAT-1S-P30	1 × 10/100/1000BaseT(x) RJ45 with 30W PoE+, 1 × 100/1000BaseFx SFP
AMG260-1GBT-1S-P90	1 × 10/100/1000BaseT(x) RJ45 with 60/90W PoE, 1 × 100/1000BaseFx SFP
AMG260-1G-1S-PD	1 × 10/100/1000BaseT(x) RJ45 with PoE PD Class 1 Input, 1 × 100/1000BaseFx SFP

Dual Port Media Converters (2+1)

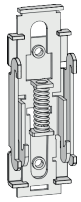
AMG260-2G-1S	2 × 10/100/1000BaseT(x) RJ45, 1 × 100/1000BaseFx SFP
AMG260-2GAT-1S-P60	2 × 10/100/1000BaseT(x) RJ45 with 30W PoE+, 1 × 100/1000BaseFx SFP
AMG260-2GBT-1S-P180	2 × 10/100/1000BaseT(x) RJ45 with 60/90W PoE, 1 × 100/1000BaseFx SFP
AMG260-2G-1S-PD	2 × 10/100/1000BaseT(x) RJ45 with PoE PD Class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

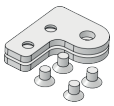
Dual Port, Dual Redundant SFP Media Converters (2+2)

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	2 × 10/100/1000BaseT(x) RJ45 with PoE PD Class 1 Input, 2 × 100/1000BaseFx SFP

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.

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, UK/EU/US Plug Heads Included
AMGPSU-I12-P24A	DIN-Rail Mount Industrial Grade PSU, -25 to +70°C, 12VDC, 24W*

PoE Models

AMGPSU-I48-P60A	DIN-Rail Mounting Industrial Grade PSU, -40 to +70°C, 43-55VDC, 60W*
AMGPSU-I48-P120A	DIN-Rail Mounting Industrial Grade PSU, -40 to +70°C, 48-55VDC, 120W*^
AMGPSU-I48-P240A	DIN-Rail Mounting Industrial Grade PSU, -40 to +70°C, 48-55VDC, 240W*^

* 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).

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.

Proud to be a British Manufacturer

AMG Systems Ltd. 4 Pioneer Way, Castleford, WF10 5QU, UK T: +44 (0) 1767 600 777 E: sales@amgsystems.com
AMG Systems Inc. 62 Spring Hill Road, Trumbull, CT 06611, USA T: +1-855-AMGPOE1 (855-264-7631) E: sales@amgsystems.com