AMG260B SERIES INDUSTRIAL BLADE MEDIA CONVERTER CARDS

BLADE

Industrial Ethernet Solutions

AMG's Blade media converter cards provide a multirate 100Mb/Gigabit Ethernet uplink over fiber via the SFP port and are installed in the AMG Blade chassis. Additional features are supported by user-configurable DIP switches for advanced functionality.

10/100	Gigabit	100/1000	Features	Temp	Mounting	NDAA/TAA
up to x2	up to x2	x1	DIP Switch	-40°C~+75°C	Blade	Compliant

[AMG260B Series]

OVERVIEW

Designed as ultra compact blade cards, the AMG260B 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.

The AMG260B blade cards are designed to be installed in the AMG2036 blade chassis system supporting up to 18 individual blade cards in a single 1U of 19inch rack space. This provides industry leading rack density where space is at a premium and the hot-swap capability of the blade cards ensures easy future expansion and device maintenance or replacement.

User selectable DIP switches allow for configuration of the intelligent link fault pass-through features on either the RJ45 or SFP ports for remote end failure detection as well as remote device reset to allow end device reboots, 250M extended distance mode on the RJ45 ports and Mux/Demux capabilities for traffic filtering.

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

FEATURES

- Ultra compact size – provides industry leading rack density with up to 18 blade cards per chassis occupying only 1U of 19inch rack space
- -40°C to +75°C temperature maintains performance in extreme conditions
- Designed for the AMG2036 blade chassis system
- All SFP ports are multirate 100Mb/Gigabit – support single and multimode, single or dual fiber options up to 120Km
- DIP switch selection of RJ45/SFP link fault pass-through, remote device reset, extended distance, Mux and Demux modes
- Auto-Negotiation (802.3u) – automatically determines the best connection speed
- Designed in the USA & UK. Manufactured in the United Kingdom
- AMG Lifetime Support Warranty

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AMG

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 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	1x 100/1000FX SFP
Power	Supplied From Blade Chassis

Switches.

Switch	1x 6 Position DIP Switch
Switch Functions	Remote Reset Mode Link Fault Pass-Through RJ45 Link Fault Pass-Through SFP Extended Distance Mode Mux Mode*^ Demux Mode*^

(* Available On The AMG260B 2+1 Models Only)
(^ Coming Soon. Contact AMG Sales Representative)

Power.

Power Inputs	1 or 2 (Dependent On Blade Chassis Model)
Operating Voltage	$12V_{DC}$
Power Consumption:	
1+1 Models	2W Max
2+1 Models	3W Max
Protection	Overload Current

Packaging.

Shipping Weight	0.06kg / 0.13lb (AMG260B 1+1 Models) 0.08kg / 0.18lb (AMG260B 2+1 Models)
Dimensions:	(W x D x H) 165 × 70 × 47 mm 6.50 × 2.76 × 1.85 in

Mechanical.

Front Panel	Aluminium
Dimensions:	(W x D x H)
1+1 Models	121 × 41 × 22 mm 4.76 × 1.61 × 0.87 in
2+1 Models	121 × 41 × 45 mm 4.76 × 1.61 × 1.77 in
IP Rating	IP40 (When Installed In AMG2036 Chassis)
Installation	AMG2036 Blade Chassis
Chassis Slots:	
1+1 Models	1
2+1 Models	2
Weight:	
1+1 Models	0.04kg / 0.09lb
2+1 Models	0.06kg / 0.13lb

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	7 BTU/h (AMG260B 1+1 Models) 10 BTU/h (AMG260B 2+1 Models)
Cooling	Passive Cooling
Noise Level	0 dBA

Regulatory.

Safety	IEC/EN 62368-1
EMI	EN 55032 Class A CISPR 32 FCC Part 15B Class A
EMS	EN 55035 / CISPR 35 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
Vibration	IEC 60068-2-6
Environmental	Reach, RoHS, WEEE
Supply Chain	NDAA & TAA Compliant

Designed to meet NEMA TS2 & EN 50121-4

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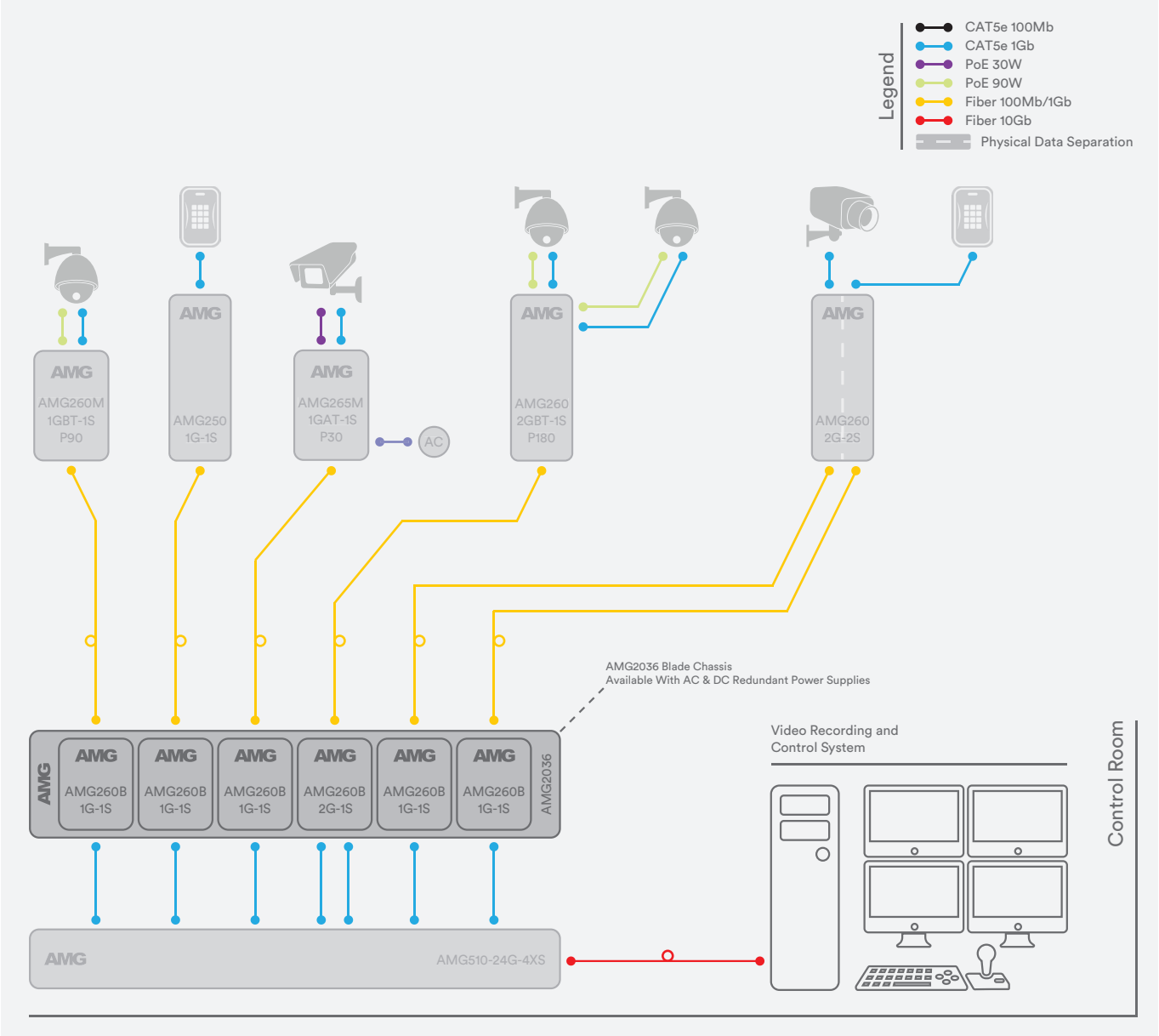
Application Diagram.



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Part Numbers.

1+1 Blade Media Converter Cards

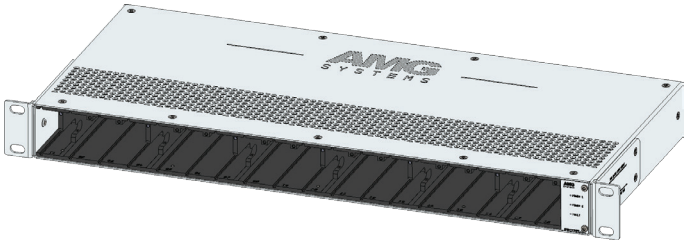
AMG260B-1F-1S	1 × 10/100BaseT(x) RJ45, 1 × 100/1000BaseFx SFP, Blade Card, 1 Slot
AMG260B-1G-1S	1 × 10/100/1000BaseT(x) RJ45, 1 × 100/1000BaseFx SFP, Blade Card, 1 Slot

2+1 Blade Media Converter Cards

AMG260B-2F-1S	2 × 10/100BaseT(x) RJ45, 1 × 100/1000BaseFx SFP, Blade Card, 2 Slots
AMG260B-2G-1S	2 × 10/100/1000BaseT(x) RJ45, 1 × 100/1000BaseFx SFP, Blade Card, 2 Slots

Recommended Chassis.

AMG2036-RP-AA	1U 19inch 18 Slot Blade Chassis With Dual Redundant 85-264V_{AC} IEC Mains Power Inputs
AMG2036-RP-AD	1U 19inch 18 Slot Blade Chassis With Single 85-264V_{AC} IEC Mains & Single 12V_{DC} External DC Redundant Power Inputs
AMG2036-RP-DD	1U 19inch 18 Slot Blade Chassis With Dual Redundant 12V_{DC} External DC Power Inputs



AMG2036 - 1U 19inch 18 Slot Blade Chassis

Optional Accessories.

SFP Modules — 100Mb & 1Gb Optical/Copper Modules see separate list, need to be ordered separately

Proud to be a British Manufacturer

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