

# AMG260B SERIES INDUSTRIAL BLADE MEDIA CONVERTER CARDS



## 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 up to x2	Gigabit up to x2	100/1000 x1	Features DIP Switch	Temp -40°C~+75°C	Mounting Blade	NDAA/TAA 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. Multiple port isolation and traffic direction features are also available 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

- 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, directed traffic and 2 port isolation 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

# 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 Directed Traffic Mode^ 2 Port Isolation Mode^

\*Not all switch functions can be used at the same time. Consult the product manual or contact AMG Technical Services for further clarification.  
(^ Available On The AMG260B 2+1 Models Only)

## Power.

Power Inputs	1 or 2 (Dependent On Blade Chassis Model)
Operating Voltage	12V <sub>DC</sub>
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 x 70 x 47 mm 6.50 x 2.76 x 1.85 in

## Mechanical.

Front Panel	Aluminium
Dimensions:	(W x D x H)
1+1 Models	121 x 41 x 22 mm 4.76 x 1.61 x 0.87 in
2+1 Models	121 x 41 x 45 mm 4.76 x 1.61 x 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.

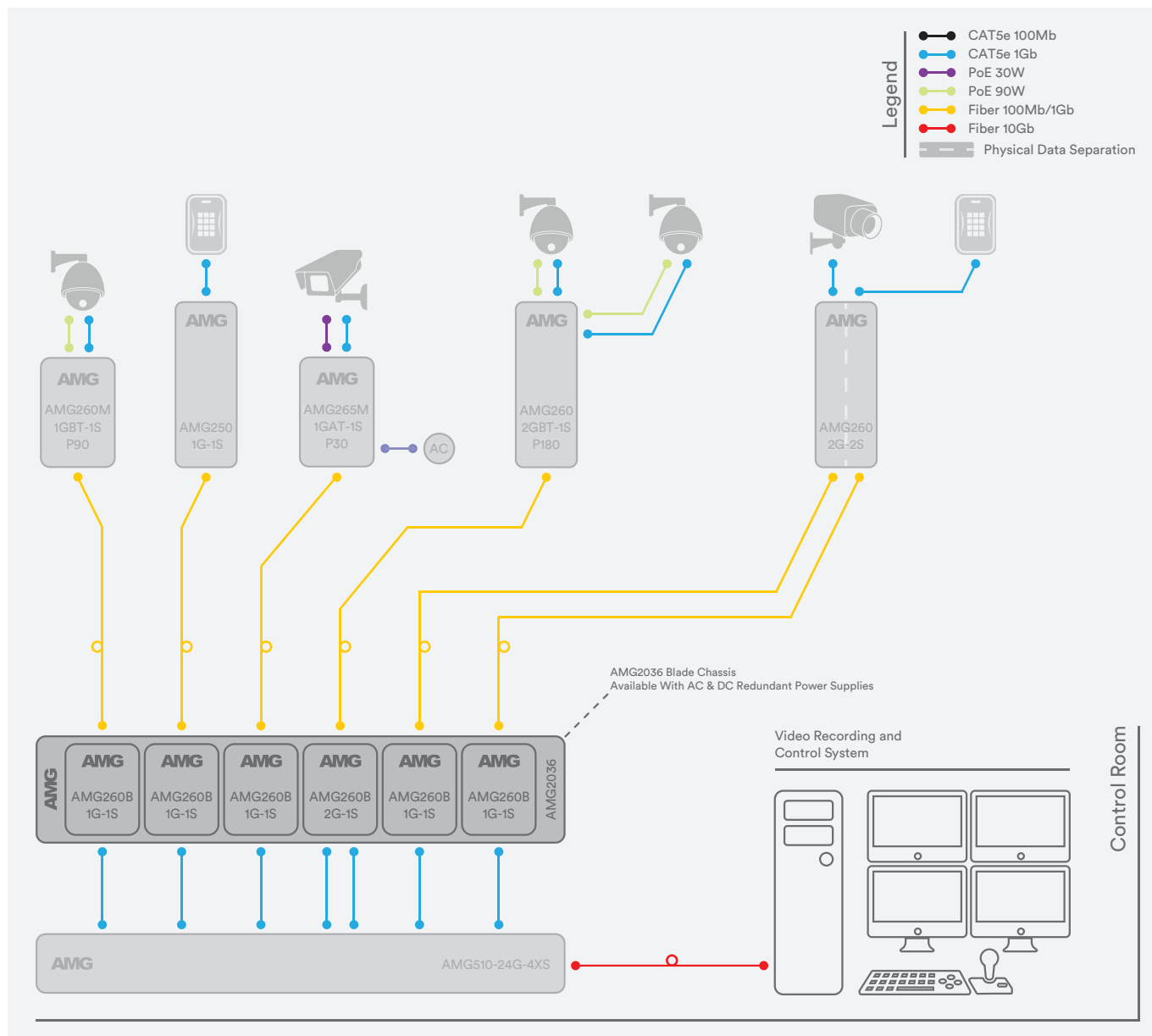
Operating Temp.	-40 to +75°C / -40 to +167°F
Storage Temp.	-40 to +85°C / -40 to +185°F
Humidity	5% to 95% (non-condensing)
MTBF	>500,000 hours
MTBF Standard	Telcordia SR-332 GF 30°C
Heat Dissipation	7 BTU/h (AMG260B 1+1 Models) 10 BTU/h (AMG260B 2+1 Models)
Cooling	Passive Cooling
Noise Level	0 dBA

## 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

# Application Diagram.



# Part Numbers.

## 1+1 Blade Media Converter Cards

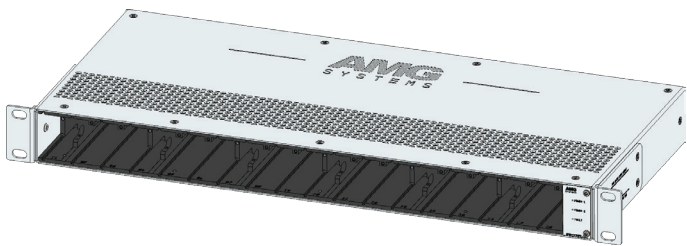
AMG260B-1F-1S	1 × 10/100BaseT(x) RJ45, 1 × 100/1000BaseFx SFP, Blade Card, 1 Slot
AMG260B-1G-1S	1 × 10/100/1000BaseT(x) RJ45, 1 × 100/1000BaseFx SFP, Blade Card, 1 Slot

## 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 <sub>AC</sub> IEC Mains Power Inputs
AMG2036-RP-AD	1U 19inch 18 Slot Blade Chassis With Single 85-264V <sub>AC</sub> IEC Mains & Single 12V <sub>DC</sub> External DC Redundant Power Inputs
AMG2036-RP-DD	1U 19inch 18 Slot Blade Chassis With Dual Redundant 12V <sub>DC</sub> 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

