# 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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# 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<br>SFP Link/Activity<br>RJ45 Link/Activity<br>Alarm |
| RJ45 Ports | 1 or 2x 10/100TX RJ45 or<br>1 or 2x 10/100/1000T(X) RJ45<br>with Auto MDI/MDI-X and<br>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<br>Link Fault Pass-Through RJ45<br>Link Fault Pass-Through SFP<br>Extended Distance Mode<br>Mux Mode*^<br>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)<br>0.08kg / 0.18lb (AMG260B 2+1 Models) |
| Dimensions: | (W x D x H)<br>165 × 70 × 47 mm<br>6.50 × 2.76 × 1.85 in |

## Mechanical.

| | |
|---|---|
| Front Panel | Aluminium |
| Dimensions: | (W x D x H) |
| 1+1 Models | 121 × 41 × 22 mm<br>4.76 × 1.61 × 0.87 in |
| 2+1 Models | 121 × 41 × 45 mm<br>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)<br>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<br>CISPR 32<br>FCC Part 15B Class A |
| EMS | EN 55035 / CISPR 35<br>EN 61000-4-2 (ESD)<br>EN 61000-4-3 (RS)<br>EN 61000-4-4 (EFT)<br>EN 61000-4-5 (Surge)<br>EN 61000-4-6 (CS)<br>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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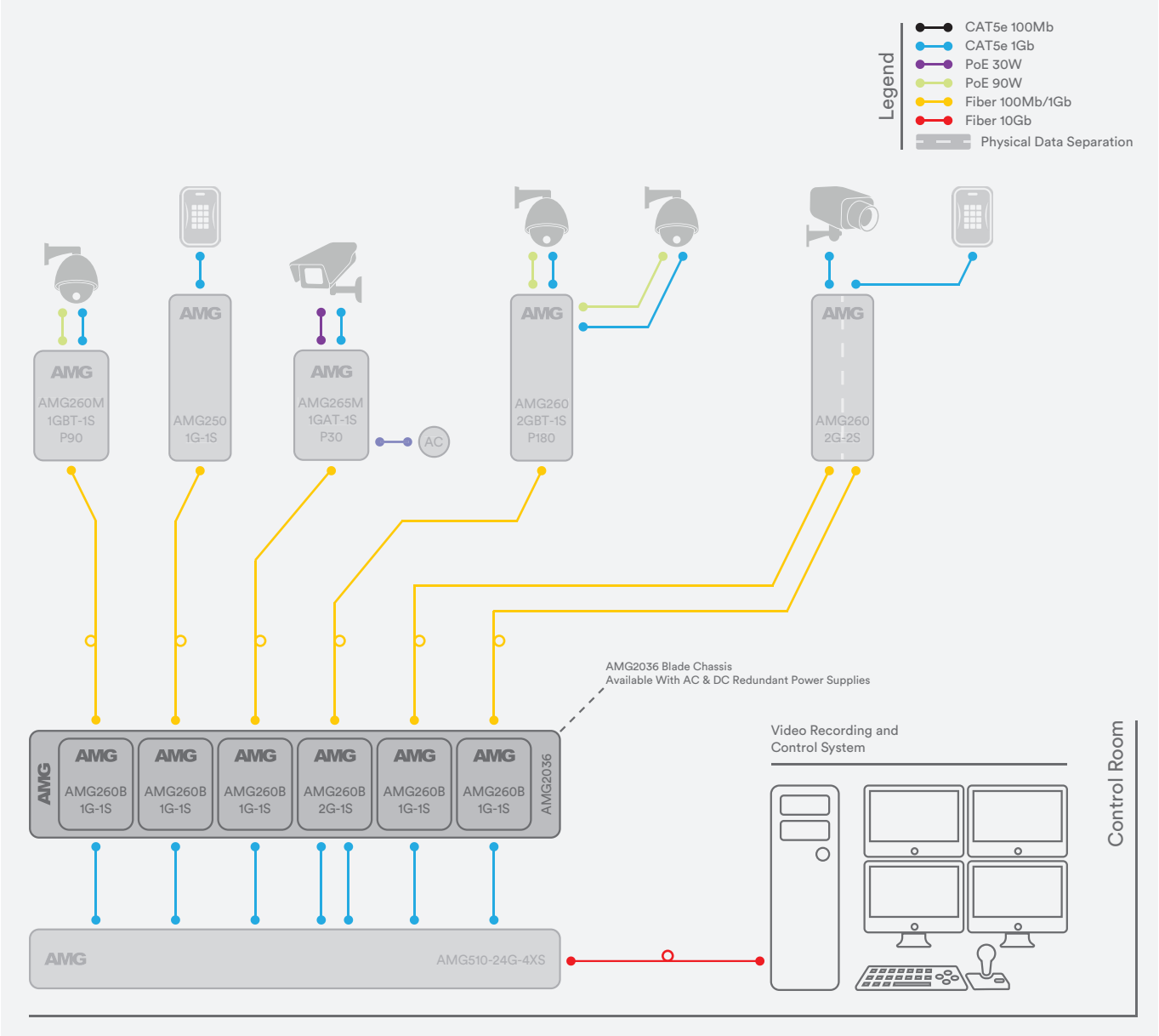
# Application Diagram.

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# Part Numbers.

**1+1 Blade Media Converter Cards**

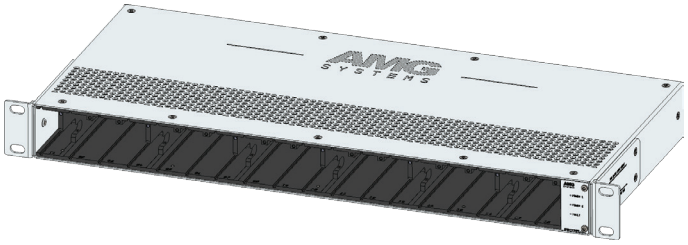
| | |
|---|---|
| AMG260B-1F-1S | 1 × 10/100BaseT(x) RJ45, 1 × 100/1000BaseFx SFP, Blade Card, 1 Slot |
| AMG260B-1G-1S | 1 × 10/100/1000BaseT(x) RJ45, 1 × 100/1000BaseFx SFP, Blade Card, 1 Slot |

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



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