

# AMG2036 SERIES

## 1U BLADE 19-INCH RACK

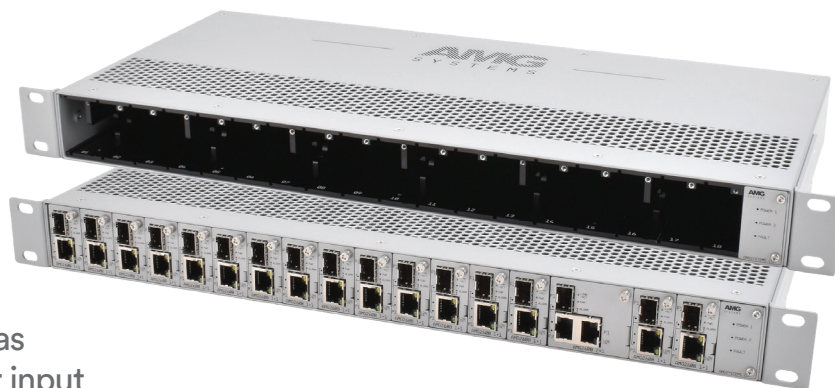
### CHASSIS WITH DUAL








### REDUNDANT PSU



## Industrial 19inch Racks

The AMG2036 is a 1U blade rack chassis for standard 19 inch racks. The chassis allows for mounting up to 18x single slot AMG blade cards. Dual redundant PSU's are included as standard with both AC & DC power input options available.



						
PSU 12V 114W	Contacts 1x Fault	Temp -30~+75°C	Protection IP40	Mounting Rack	PSU x2 Dual	NDAA/TAA Compliant

[ AMG2036 (Individual blade cards not included) ]

### / OVERVIEW

The AMG2036 blade rack chassis supports all AMG blade cards and provides an ultra-high density 19inch 1U solution for mounting industrial media converters in 19inch racks and cabinets. Its short depth even allows for installation in small wall mounted 19inch rack enclosures.

Each blade chassis features 18 slots for up to 18 individual fully hot-swappable blade cards (depending on product width) and occupies only 1U of rack space within the equipment cabinet offering a simple and elegant rack mount solution for space restricted installations.

The AMG2036 blade chassis can be ordered with multiple redundant power supply options including dual AC mains inputs, single AC mains with single external DC input or dual external DC inputs. The flexible power supply options ensure that there is a blade chassis solution to meet every site and budget requirement.

A fault relay output is provided to indicate a loss of power and in addition DIP switches provide the ability to bypass either of the power supply inputs if they are not being used in a particular installation.

The AMG2036 requires blade cards (sold separately).

### / FEATURES

- Ultra compact size – provides industry leading rack density with up to 18 blade cards per chassis
- 19inch standard rack-mount size 1U high
- -30°C to +75°C temperature maintains performance in extreme conditions
- Multiple power supply options with single or dual integrated 85-264V<sub>AC</sub> mains or external 12V<sub>DC</sub> inputs
- LED indication for power supply operation to aid installation and system fault diagnosis
- Compatible with all AMG blade cards
- Fault relay for notification of power supply failure
- Blade cards are fully hot-swappable ensuring easy future expansion and device maintenance
- Designed in the USA & UK. Manufactured in the United Kingdom
- AMG Lifetime Support Warranty

# Specifications.

## Interface.

LED Indicators	2x Power 1x Fault
Capacity	18 Slots
Power Input:	
AA Models	2x IEC C14 Sockets
AD Models	1x IEC C14 Socket + 1x 4-Way Barrier Terminal
DD Models	1x 4-Way Barrier Terminal
Power Output	18x Blade Card Connectors
Fault Relay	1x 2-Way Barrier Terminal
Earth Connection	1x M4 Screw

## Switches.

Switch	1x 2 Position DIP Switch
Switch Functions	Bypass PSU 1 Fault Bypass PSU 2 Fault

## Power.

Power Inputs	1 or 2
Operating Voltage:	
Mains Input	85-264V <sub>AC</sub> , 47~63Hz or 120-370V <sub>DC</sub>
DC Input	12V <sub>DC</sub>
Input Current:	
Mains Input	2.3A (115V <sub>AC</sub> ) / 1.1A (230V <sub>AC</sub> )
DC Input	4.6A Max
Efficiency	>94% (12V <sub>DC</sub> Internal PSU)
Output	18x 12V <sub>DC</sub> , 55W Max
Fault Relay	Form A 60V @ 2A Max

## Packaging.

Shipping Weight:	
AA Model	4.30kg /9.48lb
AD Model	3.98kg /8.77lb
DD Model	3.63kg /8.00lb
Dimensions	(W x D x H) 550 x 320 x 110 mm 21.65 x 12.60 x 4.33 in

## Environmental.

Operating Temp.	-30 to +75°C / -22 to +167°F
Storage Temp.	-40 to +85°C / -40 to +185°F
Humidity	20% to 90% (non-condensing)
MTBF	>470,200 hours
MTBF Standard	MIL-HDBK-217F GB25
Heat Dissipation	136 BTU/h (max. excluding individual units)
Cooling	Passive Cooling
Noise Level	0 dBA

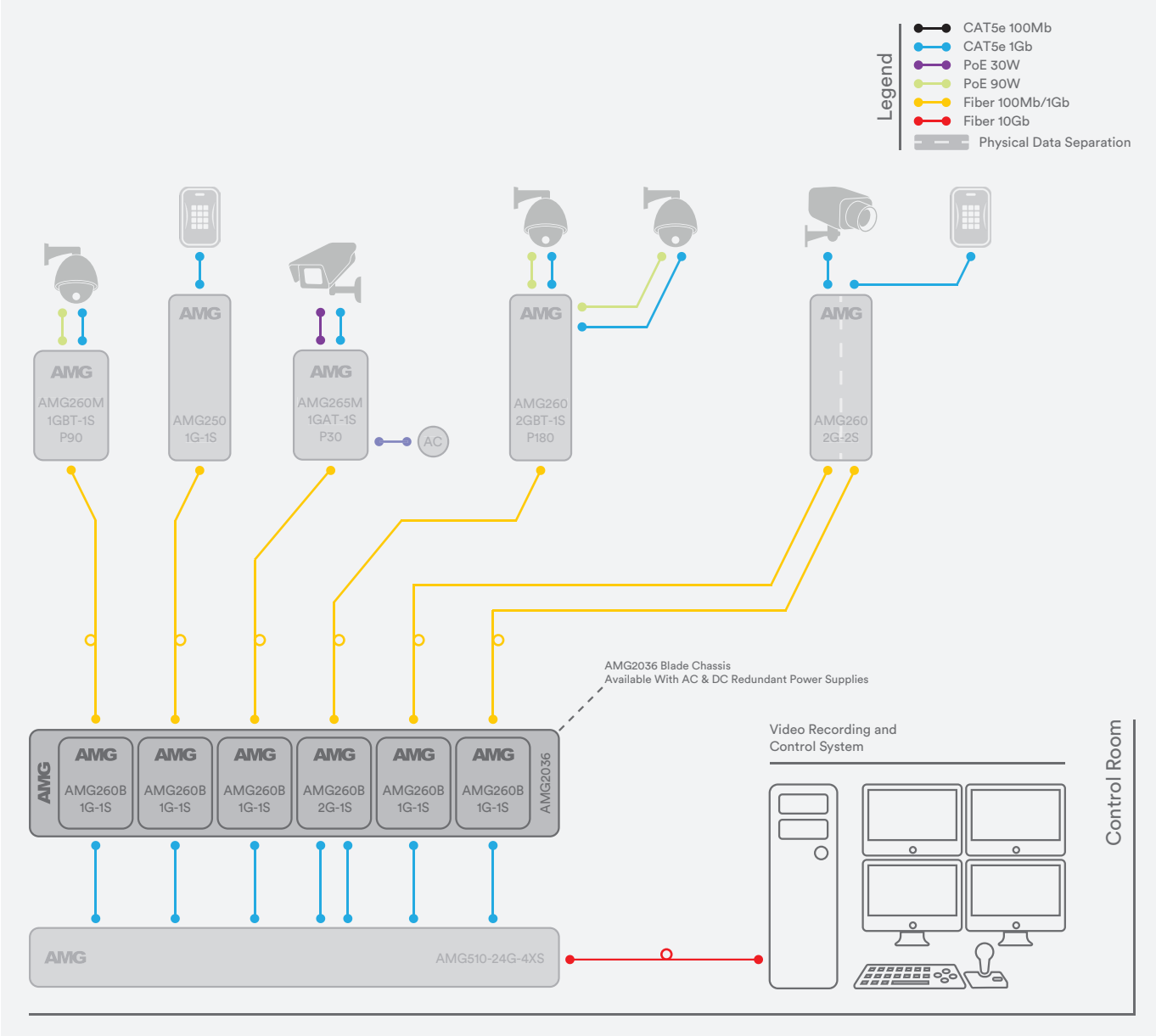
## Mechanical.

Housing	Metal
Dimensions:	(W x D x H) 443 x 218 x 44 mm 17.44 x 8.58 x 1.73 in
(Excluding 19inch Brackets)	
IP Rating	IP40 (When fully populated with cards or blank panels in each of the 18 slots. Sold separately)
Installation	19inch Rack (1U)
Weight:	
AA Model	3.32kg /7.32lb
AD Model	3.19kg /7.03lb
DD Model	3.02kg /6.66lb

## Regulatory.

Safety	IEC/UL/EN 62368-1
EMI	EN55032 Class B CISPR32 Class B
EMS	EN61000-3-2 Class A EN61000-3-3 EN61000-4-2 (ESD) EN61000-4-3 (RS) EN61000-4-4 (EFT) EN61000-4-5 (Surge) EN61000-4-6 (CS) EN61000-4-8 (MFI) EN61000-4-11 (Dips)
Environmental	Reach RoHS WEEE
Supply Chain	NDAA & TAA Compliant

# Application Diagram.



# Part Numbers.

## 1U Blade Rack Chassis With 18 Slots & Dual Redundant PSU's

AMG2036-RP-AA	1U 19inch 18 Slot Blade Chassis With 2x AC Mains Redundant Power Inputs*
AMG2036-RP-AD	1U 19inch 18 Slot Blade Chassis With 1x AC Mains + 1x DC External Redundant Power Inputs*
AMG2036-RP-DD	1U 19inch 18 Slot Blade Chassis With 2x DC External Redundant Power Inputs*

\* AMG2036 blade chassis are delivered empty. AMG blade cards and blank panels are sold separately (see recommended part codes below)

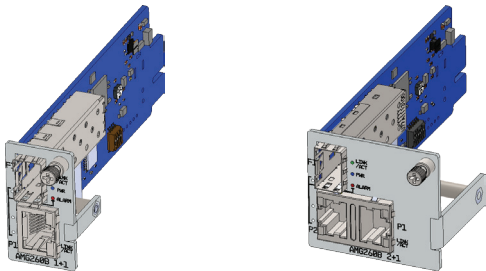
# Included Accessories.

19inch Mounting Brackets	2x Rack Brackets & Screws For 1U 19inch Mounting AMG2036 Blade Chassis
Adhesive Rubber Feet	6x Grey Rubber Adhesive Feet For Desktop Mounting AMG2036 Blade Chassis
Mains IEC Cable	1x or 2x Region Specific UK/EU/US/AUS IEC Line Cord(s) (model dependant)



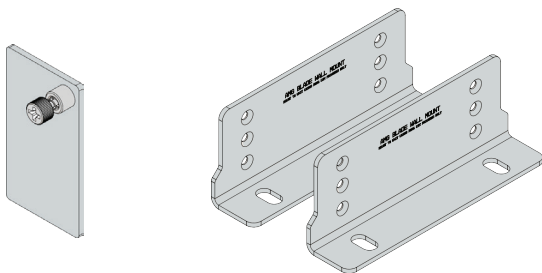
# Recommended Blade Cards.

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



# Optional Accessories.

AMG2036-BP1	1 Slot Blanking Panel For AMG2036 Blade Chassis
AMGMNT-WALL-02	2x Wall Mounting Brackets & Screws For Flat To Wall Mounting AMG2036 Blade Chassis



In a continuing effort to improve and advance technology, product specifications are subject to change without notice. Please visit [www.amgsystems.com](http://www.amgsystems.com) for the latest product specifications.