

# AMG350 SERIES INDUSTRIAL UNMANAGED SWITCHES WITH OPTIONAL 30/60/90W POE



## Industrial Ethernet Solutions

AMG's unmanaged Ethernet switches provide 100Mbps or Gigabit Ethernet switching for simple edge network applications with optional 30W or 60/90W PoE. Available with a combination of 2x RJ45 and 2x SFP ports for maximum system flexibility.



10/100 up to x2	10/100 up to x2	Gigabit up to x2	Gigabit up to x2	100/1000 x2	Temp -40°C~+75°C	Mounting DIN/Surface	PSU x2 Dual

[ AMG350 Series ]

### OVERVIEW

Designed in a compact DIN rail or wall mount housing, the AMG350 series unmanaged Ethernet switches are ideally suited for connecting edge devices to Ethernet networks where more complex management functions are not required. Long distance connections are supported using all types of fibre through the integrated SFP port(s). Fibre 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.

Fitted with dual redundant power inputs and power failure alarm relay ensures maximum operating reliability and the highest levels of performance.

A wide range of models are available to suit all design requirements.

SFPs and PSUs need to be ordered separately.

### FEATURES

- Compact size – ideal for confined spaces, including camera poles and roadside cabinets
- -40°C to +75°C temperature maintains performance in extreme conditions
- Plug & Play – no need for any user configuration
- DIN rail mountable – quick to install and remove for maintenance
- All SFP ports are multirate 100Mb/Gigabit – support single and multimode, single or dual fibre options up to 120Km
- Dual redundant power inputs with fault relay
- Supports optional 15W, 30W, 60W and 90W PoE
- Auto-Negotiation (802.3u) – automatically determines the best connection speed
- 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
IEEE802.3af	15W PoE
IEEE802.3at	30W PoE+
IEEE802.3bt	60 & 90W PoE
IEEE802.3x	Flow Control

Jumbo Frames	9.2Kbytes
Address Table	2K MAC Entries
Switch Fabric	8Gbps

## Interface.

LED Indicators	2x Power SFP Link/Activity RJ45 Link/Activity PoE
RJ45 Ports	2x 10/100TX RJ45 or 2x 10/100/1000T(X) RJ45 with Auto MDI/MDI-X with 1.5 kV Isolation Protection
SFP Slots	2x 100/1000FX SFP
Power/Relay	1x 6 pin removable terminal block with locking screws

## Power.

Power Inputs	2
Operating Voltage:	
Non-PoE Models	10-36V <sub>DC</sub>
30W PoE Models	48-56V <sub>DC</sub>
90W PoE Models	52-56V <sub>DC</sub>
Power Consumption:	4W Max (without PoE Load)
PSE Modes:	
30W Models	Mode A
60/90W Models	Mode A, Mode B
Protection	Reverse Polarity, Overload Current
Fault Relay	Form A 60V @ 2A Max

## Packaging.

Shipping Weight	0.52kg / 1.15lb
Dimensions	(W x D x H) 175 x 160 x 50 mm 6.89 x 6.30 x 1.97 in

## Mechanical.

Housing	Anodised Aluminium
Dimensions:	(W x D x H)
Excluding DIN & Wall Mounts	35 x 88 x 108 mm
Including DIN & Wall Mounts	1.38 x 3.46 x 4.25 in
IP Rating	35 x 96 x 132 mm
Installation	1.38 x 3.78 x 5.20 in
Weight	IP30 Wall Mount or DIN-Rail 0.3kg / 0.66lb

## Environmental.

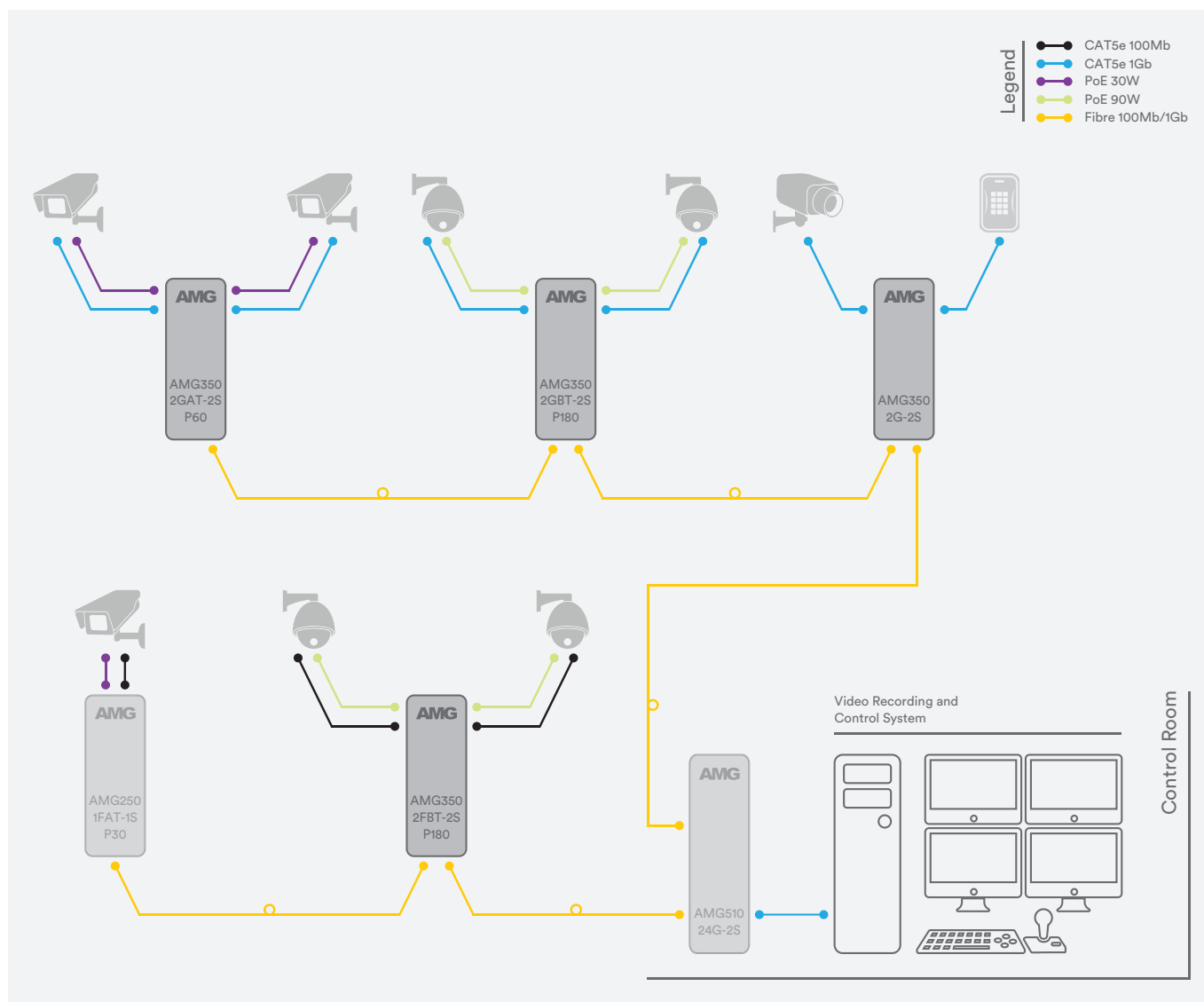
Operating Temp.	-40°C to +75°C
Storage Temp.	-40°C to +85°C
Humidity	5% to 95% (non-condensing)
MTBF	2,573,692 hours (Non-PoE Models) 2,332,497 hours (PoE Models)
MTBF Standard	Telcordia SR-332 GF 30°C
Heat Dissipation	14 BTU/h (Non-PoE) 218 BTU/h (30W PoE) 628 BTU/h (90W PoE)
Cooling	Passive Cooling
Noise Level	0 dBA

## Regulatory.

Safety	IEC/EN 62368-1
EMI	EN 55032 Class A CISPR 32 FCC Part 15B Class A
EMS	EN 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	IEC 60068-2-1 (-40°C Cold) IEC 60068-2-2 (+75°C Hot) IEC 60068-2-14 (Temp Change)
	Reach
	RoHS
	WEEE

Designed to meet NEMA TS2 & EN 50121-4

# Application Diagram.



# Part Numbers.

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## 4 Port Unmanaged 100Mb Ethernet Switches

AMG350-2F-2S	2 × 10/100BaseT(x) RJ45, 2 × 100/1000BaseFx SFP
AMG350-2FAT-2S-P60	2 × 10/100BaseT(x) RJ45 with 30W PoE+, 2 × 100/1000BaseFx SFP
AMG350-2FBT-2S-P180	2 × 10/100BaseT(x) RJ45 with 60/90W PoE+, 2 × 100/1000BaseFx SFP

## 4 Port Unmanaged 1Gb Ethernet Switches

AMG350-2G-2S	2 × 10/100/1000BaseT(x) RJ45, 2 × 100/1000BaseFx SFP
AMG350-2GAT-2S-P60	2 × 10/100/1000BaseT(x) RJ45 with 30W PoE+, 2 × 100/1000BaseFx SFP
AMG350-2GBT-2S-P180	2 × 10/100/1000BaseT(x) RJ45 with 60/90W PoE+, 2 × 100/1000BaseFx SFP

# Recommended PSUs.

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### Non-PoE Models

AMGPSU-I12-P24      DIN-Rail Mount Industrial Grade PSU, -40 to +70°C, 12VDC, 24W


### PoE Models

AMGPSU-I48-P60      DIN-Rail Mounting Industrial Grade PSU, -40 to +70°C, 43-56VDC, 60W  
AMGPSU-I48L-P120    DIN-Rail Mounting Light Industrial Grade PSU, -20 to +60°C, 48-55VDC, 120W  
AMGPSU-I48-P120    DIN-Rail Mounting Industrial Grade PSU, -40 to +70°C, 47-53VDC, 120W  
AMGPSU-I48-P240    DIN-Rail Mounting Industrial Grade PSU, -40 to +70°C, 48-53VDC, 240W

# Notes.

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Optional Accessories:      SFP modules - Optical/Copper see separate list, need to be ordered separately

Proud to be a British  
Manufacturer 

*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.*