

# AMG570-8G-3S SERIES

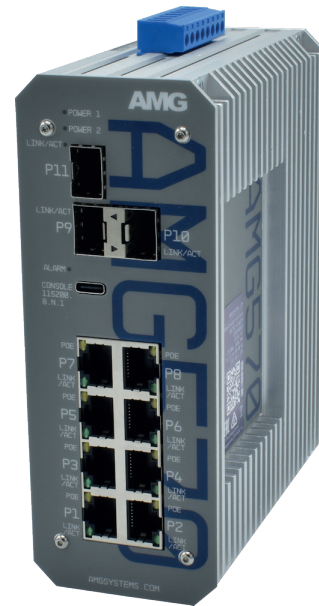
## 11 PORT INDUSTRIAL GRADE

### MANAGED LAYER 2+ SWITCHES



## Industrial Ethernet Solutions

AMG's fully managed layer 2+ Ethernet switches provide 100Mbps, Gigabit and 2.5 Gigabit Ethernet switching for industrial network applications. Available with 8x RJ45 Gigabit ports supporting optional 30/60/90W PoE and 3x 100Mb/1Gb/2.5Gb SFP ports.



Gigabit up to x8	Gigabit up to x4	Gigabit up to x8	1/2.5 Gb x3	Managed Layer 2+	Contacts 1 In / 2 Out	Temp -40°C~+75°C	Mounting DIN/Surface	Protection IP40	PSU x2 Dual	NDA/TAA Compliant

[ AMG570-8GAT-3S-P240 ]

### OVERVIEW

AMG570 series layer 2+ managed industrial Ethernet switches are designed in a thermally efficient DIN rail or wall mount housing and have 8 Gigabit Ethernet RJ45 ports with an additional 3 multi-rate SFP ports that support 100Mb, 1Gb and 2.5Gb for high speed data uplink into core networks, providing application and site flexibility.

Available as a non-PoE model as well as multiple PoE models for IEEE802.3at 30W and/or IEEE802.3bt 60/90W they are suitable for powering the latest high powered PoE devices over a wide industrial operating temperature range.

The AMG570 series support a wide range of management functions as well as Rapid Spanning Tree Protocol (RSTP), Multiple Spanning Tree Protocol (MSTP), Media Redundancy Protocol (MRP) and Ethernet Ring Protection Switching (ERPS) for network redundancy. IGMP functionality is supported to handle the multicast traffic which is commonly used in IP CCTV deployments.

SFPs and PSUs need to be ordered separately.

### FEATURES

- Innovative thermally efficient housing ensures high levels of device reliability under full load
- -40°C to +75°C temperature maintains performance in extreme conditions
- DIN rail or wall mountable - quick to install and remove for maintenance
- Compliant with all IEEE 802.3 speeds (i/u/ab/z)
- Triple Speed SFP ports (100Mb, 1Gb, 2.5Gb)
- Supports RSTP, MSTP, ERPS, MRP, SNMP and IGMP
- IEEE 802.1x port security enabled
- Supports 10K bytes jumbo frames
- Supports optional 15W, 30W, 60W and 90W PoE
- Layer 3 Static Routing
- Designed in the USA & UK. Manufactured in the United Kingdom
- AMG Lifetime Support Warranty

# Specifications.

## Standards.

IEEE 802.3i	10Base-T
IEEE 802.3u	100Base-TX & 100Base-FX
IEEE 802.3ab	1000Base-T
IEEE 802.3z	1000Base-X
IEEE 802.3x	Flow Control
IEEE 802.3ad	Port Trunk with LACP
IEEE 802.3az	Energy Efficient Ethernet
IEEE 802.1D	Spanning Tree (STP)
IEEE 802.1w	Rapid Spanning Tree (RSTP)
IEEE 802.1s	Multiple Spanning Tree (MSTP)
IEEE 802.1p	QoS Priority Marking
IEEE 802.1Q	VLANs
IEEE 802.1v	VLAN Classification
IEEE 802.1X	Port Security
IEEE 802.3AB	LLDP
IEEE 802.3at	30W PoE+
IEEE 802.3bt	60 & 90W PoE
RFC112, 2236, 3376, 4604, 5711	IGMP v1, v2, v3
RFC2236, 3376	IGMP Snooping
RFC8907	TACACS
RFC2865, 2866	RADIUS
RFC5424	Syslog
RFC4250 - 4254	SSH
RFC5246	TLS1.2 / HTTPS
RFC854	Telnet
RFC2030	SNTP
RFC2131	DHCP
IEC 62439-2	Media Redundancy Protocol
ITU-T G.8032	Ethernet Ring Protection Switching (ERPS)

## Hardware Features.

Architecture	Store-and-Forward
Switch Latency	<7µs
Switch Fabric	31 Gbps (Non-Blocking Wire Speed On All Ports. 99.999% Error Free Data Integrity)
Address Table	4K MAC Entries
Buffer Memory	1.75M bits
Jumbo Frames	10K Bytes
CPU	500MHz
SDRAM	2Gb
Flash	512Mb
VLAN's	4K
IGMP Groups	1024
IPv6 MLD Groups	1024
Throughput	23.07Mpps @ 64 bytes
Priority Queues	8
Bandwidth Control	Ingress Packet Filter and Egress Rate Limit

## Layer 3 Features.

Static Routing:	
Interfaces	8 Max
Routes	32 Max
DHCP	Server (IPv4)

## Software Features.

Redundancy	STP RSTP MSTP MRP ERPS (G.8032)
VLAN	802.1Q Port Based VLAN Private VLAN Voice VLAN Multicast VLAN Registration VLAN Registration Dynamic Trunk Static Trunk DDM v1/v2/v3 (8 VLAN's Max)
MVR MRP/GVRP LACP	
SFP Monitoring IGMP Snooping IGMP Querier MLD Snooping MLD Querier IPMC	IPv6 v1 (8 VLAN's Max) IPv6 64 Profiles (128 Rules Each)

## QoS.

Class of Service	802.1p QoS & DSCP
Diffserv	RFC2474
Rate Limiting	Ingress / Egress
Priority Queue	WRR / Strict / Hybrid Priority

## Security.

Port Security	MAC/IP Based
Storm Control	Rate Limiting
802.1x	RADIUS Authentication
Dynamic ARP Inspection	
Sticky MAC	
TACACS+	
HTTPS/SSL	
BPDU Guard	
DHCP Snooping	
Loop Protection	
IP Source Guard	IPv4 & IPv6
IP Authorisation Managers	
Access (Policy) Control List (ACL L2/3/4)	
Custom User Rights	15 Levels (20 Users Max)

# Specifications.

## Alarms/Contact Closures.

Inputs	1x Dry Input
Outputs	1x Form A Relay
Alarm Outputs	1x Form A Relay
Output Rating	400V <sub>DC</sub> @ 0.1A Max

## PoE Management.

Scheduling	
Ping Watchdog with Reboot	
Enable/Disable, Priority Level, Power Level	

## Management.

DHCP	Client / Relay (IPv4 & IPv6) Option 66/67/82
Event/Error Log	Syslog Client
Management Access	SNMP Web GUI Telnet / SSH v2.0 / CLI
Access Management	Filtering
SNMP	v1/v2c/v3
RMON	1/2/3/9 Groups
Port Mirroring	
Software Update	HTTP/HTTPS
Config Export /Import	
Dual Firmware Images	
FTP/TFTP/SCP/SFTP	
SNTP	Client (IPv4 & IPv6)
Configuration	IPv4 & IPv6
LLDP	Link Layer Discovery Protocol
LLDP-MED	
sFlow	
Time Zone & Daylight Savings	
Cable Diagnostics	

## Interface.

LED Indicators	2x Power Fault SFP Link/Activity RJ45 Link/Activity PoE (PoE Models Only)
RJ45 Ports	8x 10/100/1000T(X) RJ45 with Auto MDI/MDI-X and 1.5 kV Isolation Protection Half & Full Duplex Support
SFP Slot	3x 100M/1G/2.5G SFP
Power, I/O, Alarm	1x 8-Way Screw Terminal
Serial Console	USB Type C
	(All Ports Comply With EIA Ethernet Data Communication Requirements)

## Packaging.

Shipping Weight	1.35kg / 2.98lb
Dimensions	(W x D x H) 260 x 200 x 60 mm 10.24 x 7.87 x 2.36 in

## Power.

Power Inputs	2
Operating Voltage:	
Non-PoE Models	12-56V <sub>DC</sub>
30W PoE Models	50-56V <sub>DC+</sub>
90W PoE Models	52-56V <sub>DC+</sub>

\*Low Voltage PoE Booster Models Available (see separate data sheet)

Power Consumption	10 Watts Max (without PoE Load)
Total PoE Budget	360W Max (model dependent)
PSE Modes	Mode A (30W Ports) Mode A, Mode B (60/90W Ports)
PoE Enabled Ports	Ports 1-8 (model dependent)
Protection	Reverse Polarity Overload

## Mechanical.

Housing	Anodised Aluminium
Dimensions:	(W x D x H) 59 x 123 x 156 mm 2.32 x 4.84 x 6.14 in
	Excluding DIN & Wall Mounts
IP Rating	IP40
Installation	Wall Mount or DIN-Rail
Construction	All Parts & Conductive Surfaces Are Non-Corrosive Materials No Self-Tapping Screws
Weight	1.15kg / 2.54lb

## Environmental.

Operating Temp:	-40 to +75°C / -40 to +167°F
40 LFM Vented Enclosure	-40 to +70°C / -40 to +158°F
Sealed Enclosure	-40 to +60°C / -40 to +140°F
200 LFM Fan/Blower Enclosure	-34 to +75°C / -29 to +167°F
Storage Temp.	-40 to +85°C / -40 to +185°F
Humidity	5% to 95% (non-condensing)
MTBF	907,476 hours
MTBF Standard	Telcordia SR-332 GF 30°C
Heat Dissipation	34 BTU/h (Non-PoE Models) 853 BTU/h (with 240W PoE Load) 1262 BTU/h (with 360W PoE Load)
Cooling	Passive Cooling
Noise Level	0 dBA

# Specifications.

## Regulatory.

Safety  
EMI

IEC/EN 62368-1  
EN55032 Class A  
FCC Part 15B Class A

EMS

EN61000-4-2 (ESD)  
EN61000-4-3 (RS)  
EN61000-4-4 (EFT)  
EN61000-4-5 (Surge)  
EN61000-4-6 (CS)

Shock  
Free Fall  
Vibration  
Environmental  
Traffic  
Supply Chain

EN61000-4-8 (PFMF)  
IEC 60068-2-27  
IEC 60068-2-32  
IEC 60068-2-6  
Reach, RoHS, WEEE  
NEMA TS2  
NDAA & TAA Compliant

Designed to meet EN 50121-4

## Part Numbers.

### Industrial Layer 2+ Managed Switches

AMG570-8G-3S	8x 10/100/1000TX, 3x 100M/1G/2.5G SFP
AMG570-8GAT-3S-P240	8x 10/100/1000TX (8x 30W PoE), 3x 100M/1G/2.5G SFP
AMG570-2GBT-4GAT-2G-3S-P300	8x 10/100/1000TX (2x 90W, 4x 30W PoE & 2x Non-PoE), 3x 100M/1G/2.5G SFP
AMG570-4GBT-4G-3S-P360	8x 10/100/1000TX (4x 90W PoE & 4x Non-PoE), 3x 100M/1G/2.5G SFP

## Included Accessories.

DIN Rail Adapter

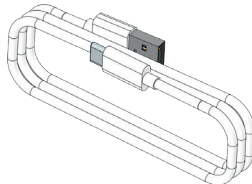
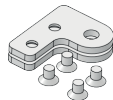
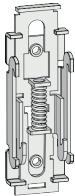
Wall Mounting Brackets

USB Console Cable

Rear Mounted Metal DIN Rail Clip & Screws For DIN Rail Mounting AMG570 Series Products

2x Wall Mounting Brackets & Screws For Wall / Surface Mounting AMG570 Series Products

USB Type A to Type C Console Cable (1.5M)



## Recommended PSUs.

### Non-PoE Models

AMGPSU-W12-P25

AMGPSU-I12-P24

Plug Top Mounting Light Industrial Grade PSU, 0 to +70°C, 12VDC, 25W, UK/EU/US Plug Heads Included

DIN-Rail Mounting Industrial Grade PSU, -40 to +70°C, 12VDC, 24W\*

### PoE Models

AMGPSU-I48-P120

AMGPSU-I48-P240

AMGPSU-I48-P480

DIN-Rail Mounting Industrial Grade PSU, -40 to +70°C, 48-53VDC, 120W\*\*

DIN-Rail Mounting Industrial Grade PSU, -40 to +70°C, 48-53VDC, 240W\*\*

DIN-Rail Mounting Industrial Grade PSU, -40 to +70°C, 48-55VDC, 480W\*\*

\* Also available in kit form including mains line cord, DC cable and DIN rail. Order with -K at the end of the part code (e.g. AMGPSU-I48-P120-K).

\*\* Also available with no exposed mains terminals and direct IEC input kit. Order with -IEC at the end of the part code (e.g. AMGPSU-I48-P120-IEC).

## Optional Accessories.


AMG2035

SFP Modules

Side Mounted Wall Bracket Adapter Kit For DIN Rail Mounting AMG570 Series Products In Depth Restricted Installations.

Adapter Kit Can Be Extended Using The Included Extension Kit To Also Mount A DIN Rail Power Supply Up To 480W

Optical / Copper SFP Modules, 100Mb, 1Gb, 2.5Gb

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.

AMG Systems Ltd. 4 Pioneer Way, Castleford, WF10 5QU, UK T: +44 (0) 1767 600 777 E: [sales@amgsystems.com](mailto:sales@amgsystems.com)

AMG Systems Inc. 62 Spring Hill Road, Trumbull, CT 06611, USA T: +1-855-AMGPOE1 (855-264-7631) E: [sales@amgsystems.com](mailto:sales@amgsystems.com)

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