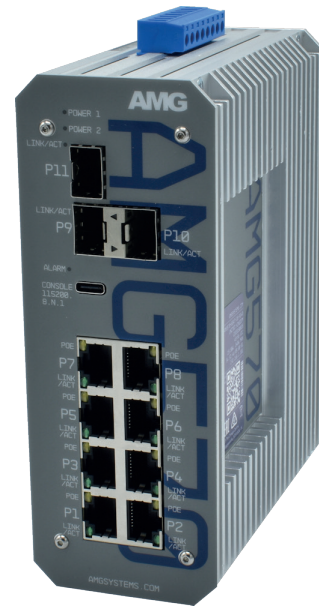# AMG570-8G-3S SERIES
11 PORT INDUSTRIAL GRADE
MANAGED LAYER 2+ SWITCHES

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/1/2.5Gb SFP ports.

Gigabit up to x8	**Gigabit** up to x4	**Gigabit** up to x8	**SFP** 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

[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, Multiple Spanning Tree and Ethernet Ring Protection Switching (ERPS) protocols 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 seperately.

/ 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 (up to 2.5Gb Speed)

— Supports RSTP, MSTP, ERPS, SNMP v1-3 and IGMP v1-3

— IEEE 802.1x port security enabled

— Supports 10K bytes jumbo frames

— Supports optional 15W, 30W, 60W and 90W PoE

— Layer 3 Static Routing

— Manufactured in the United Kingdom

— AMG Lifetime Support Warranty

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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
RFC1112	IGMP v1
RFC2236	IGMP v2
RFC3376	IGMP v3
RFC2030	SNTP
RFC2131	DHCP
ITU-T G.8032	Ethernet Ring Protection Switching (ERPS)

Hardware Features.

Architecture	Store-and-Forward
Switch Latency	<7µs
Switch Fabric	31 Gbps
Address Table	4K MAC Entries
Buffer Memory	1.75M bits
Jumbo Frames	10K Bytes
CPU	500MHz
SDRAM	512M Bytes
Flash	512M bits
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
	ERPS (G.8032)
VLAN	802.1Q
	Port Based VLAN
	Private VLAN
	Voice VLAN
MVR	Multicast VLAN Registration
MRP/GVRP	VLAN Registration
LACP	Dynamic Trunk
	Static Trunk
SFP Monitoring	DDM
IGMP Snooping	v1/v2/v3 (8 VLAN's Max)
IGMP Querier	
MLD Snooping	IPv6 v1 (8 VLAN's Max)
MLD Querier	IPv6
IPMC	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)

Alarms/Contact Closures.

Inputs	1x Dry Input
Outputs	1x Form A Relay
Alarm Outputs	1x Form A Relay
Output Rating	$400V_{DC}$ @ 0.1A Max

Specifications.

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 Goups
Port Mirroring	
Software Update	HTTP/HTTPS
Config Export /Import	
Dual Firmware Images	
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
SFP Slot	3x 100M/1G/2.5G SFP
Power, I/O, Alarm	1x 8-Way Screw Terminal
Serial Console	USB Type C
Reset	Ultra-Small Tactile Switch

Packaging.

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

Power.

Power Inputs	2
Operating Voltage:	
Non-PoE Models	12-56V$_{DC}$
30W PoE Models	48-56V$_{DC*}$
90W PoE Models	52-56V$_{DC*}$
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	Overload

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

Mechanical.

Housing	Anodised Aluminium
Dimensions:	(W x D x H) (Excluding Wall Brackets)
	59 × 123 × 156 mm
	2.32 × 4.84 × 6.14 in
IP Rating	IP40
Installation	Wall Mount or DIN-Rail
Weight	1.15kg / 2.54lb

Environmental.

Operating Temp.	-40°C to +75°C
Storage Temp.	-40°C to +85°C
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

Regulatory.

Safety	IEC/EN 62368-1
EMI	EN55032 Class A, CISPR 32
	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)
	EN61000-4-8 (PFMF)
Shock	IEC 60068-2-27
Free Fall	IEC 60068-2-32
Vibration	IEC 60068-2-6
Environmental	Reach, RoHS, WEEE

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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	Rear Mounted Metal DIN Rail Clip & Screws For DIN Rail Mounting AMG570 Series Products
Wall Mounting Brackets	2x Wall Mouting Brackets & Screws For Wall / Surface Mouting AMG570 Series Products
USB Console Cable	USB Type A to Type C Console Cable (1.5M)
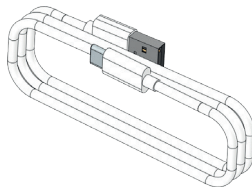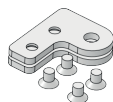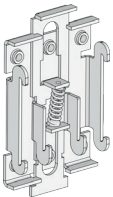
Recommended PSUs.

Non-PoE Models

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

PoE Models

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
AMGPSU-I48-P480	DIN-Rail Mounting Industrial Grade PSU, -40 to +70°C, 48-55VDC, 480W

Notes.

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

Proud to be a British Manufacturer

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