AMG570-8G-3S-LV 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 30/60/90W PoE and 3x 100Mb/1Gb/2.5Gb SFP ports. Integrated low voltage DC-DC PoE Booster.





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 LV models feature a fully isolated 9-36VDC or 18-75VDC DC-DC booster circuit with a regulated 53VDC output to supply PoE from a low voltage power input.

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.

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 guick 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 v1-3 and IGMP v1-3
- Integrated low voltage DC-DC PoE booster
- Supports 10K bytes jumbo frames
- Supports 15W, 30W, 60W and 90W PoE
- Layer 3 Static Routing
- Manufactured in the United Kingdom
- AMG Lifetime Support Warranty

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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
IEC 62439-2	Media Redundancy Protocol
ITU-T G.8032	Ethernet Ring Protection
	Switching (ERPS)

Hardware Features.

Buffer Memory1.Jumbo Frames10CPU50SDRAM51Flash51VLAN's41IGMP Groups10IPv6 MLD Groups10Throughput23Priority Queues8	024 024 3.07Mpps @ 64 bytes
Bandwidth Control In	gress Packet Filter and gress Rate Limit

Layer 3 Features.

Static Routing: Interfaces Routes DHCP

8 Max 32 Max Server (IPv4)

Software Features.

Redundancy	STP RSTP
	MSTP
	MRP ERPS (G.8032)
VLAN	802.1Q
	Port Based VLAN
	Private VLAN
	Voice VLAN
MVR	Multicast VLAN Registration
MRP/GVRP	VLAN Registration Dynamic Trunk
LACP	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 Data Limiting	RFC2474
Rate Limiting Priority Queue	Ingress / Egress WRR / Strict / Hybrid Priority
Security.	
Port Security	MAC/IP Based
Storm Control	Rate Limiting
	RADIUS Authentication
802.1x	RADIUS Authentication
802.1x Dynamic ARP Inspe	
Dynamic ARP Inspe Sticky MAC	
Dynamic ARP Inspe Sticky MAC TACACS+	
Dynamic ARP Inspe Sticky MAC TACACS+ HTTPS/SSL	
Dynamic ARP Inspe Sticky MAC TACACS+ HTTPS/SSL BPDU Guard	
Dynamic ARP Inspe Sticky MAC TACACS+ HTTPS/SSL BPDU Guard DHCP Snooping	
Dynamic ARP Inspe Sticky MAC TACACS+ HTTPS/SSL BPDU Guard DHCP Snooping Loop Protection	ction
Dynamic ARP Inspe Sticky MAC TACACS+ HTTPS/SSL BPDU Guard DHCP Snooping Loop Protection IP Source Guard	ction IPv4 & IPv6
Dynamic ARP Inspe Sticky MAC TACACS+ HTTPS/SSL BPDU Guard DHCP Snooping Loop Protection IP Source Guard IP Authorisation Ma	ction IPv4 & IPv6

Alarms/Contact Closures.

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

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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 /Impor	t
Dual Firmware Image	S
SNTP	Client (IPv4 & IPv6)
Configuration	IPv4 & IPv6
LLDP	Link Layer Discovery Protocol
LLDP-MED	
sFlow	
Time Zone & Daylight	Savings
Cable Diagnostics	

Interface.

LED Indicators	1x Power Fault SFP Link/Activity
RJ45 Ports	RJ45 Link/Activity PoE (PoE Models Only) 8x 10/100/1000T(X) RJ45 with Auto MDI/MDI-X and
SFP Slot Power, I/O, Alarm Serial Console Reset	1.5 kV Isolation Protection 3x 100M/1G/2.5G SFP 1x 8-Way Screw Terminal USB Type C Ultra-Small Tactile Switch

Packaging.

 Shipping Weight
 1.50kg / 3.31lb

 Dimensions
 (W x D x H)

 260 × 200 × 60 mm
 10.24 × 7.87 × 2.36 in

Power.

Power Inputs Operating Voltage:	2
P90 Models	9-36V _{DC}
P190 Models	18-75V
P240/P290 Models	9-36V _{DC}
Power Consumption	10 Watts Max (without PoE Load)
Total PoE Budget	90/190/240/290W Max
PSE Modes	(model dependent) Mode A (30W Ports)
PoE Enabled Ports Protection	Mode A, Mode B (60/90W Ports) Ports 1-8 (model dependent) Overload

Mechanical.

Housing Dimensions: IP Rating Installation Anodised Aluminium (W x D x H) (Excluding Wall Brackets) $59 \times 123 \times 156$ mm $2.32 \times 4.84 \times 6.14$ in IP40 Wall Mount or DIN-Rail 1.30kg / 2.87lb

Environmental.

Weight

Operating Temp:	-40°C to +75°C
40 LFM Vented Enclosure	-40°C to +70°C
Sealed Enclosure	-40°C to +60°C
200 LFM Fan/Blower Enclosure	-34°C to +75°C
Storage Temp.	-40°C to +85°C
Humidity	5% to 95% (non-condensing)
MTBF	>500,000 hours
MTBF Standard	MIL-HDBK-217F GF 25°C
Heat Dissipation	389 BTU/h (with 90W PoE Load)
	778 BTU/h (with 190W PoE Load)
	932 BTU/h (with 240W PoE Load)
Cooling	Passive Cooling
Noise Level	0 dBA

Regulatory.

Safety	IEC/EN 6	2368-1
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 6006	8-2-27
Free Fall	IEC 6006	8-2-32
Vibration	IEC 6006	8-2-6
Environmen	tal Reach, Ro	oHS, WEEE

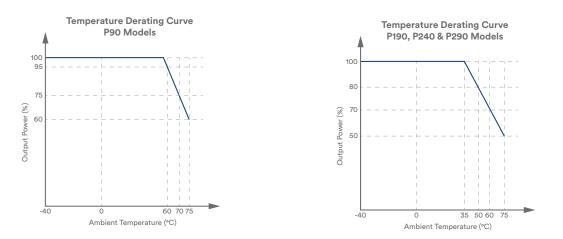
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Product Characteristic Curve.



Part Numbers.

Industrial Layer 2+ Managed Switches With Integrated Isolated DC-DC PoE Voltage Booster	
AMG570-8GAT-3S-P90-LV	8x 10/100/1000TX (8x 30W PoE, Max 90W), 3x 100M/1G/2.5G SFP, 9-36VDC
AMG570-8GAT-3S-P190-LV	8x 10/100/1000TX (8x 30W PoE, Max 190W), 3x 100M/1G/2.5G SFP, 18-75VDC
AMG570-8GAT-3S-P240-LV	8x 10/100/1000TX (8x 30W PoE, Max 240W), 3x 100M/1G/2.5G SFP, 9-36VDC
AMG570-2GBT-4GAT-2G-3S-P190-LV	8x 10/100/1000TX (2x 90W, 4x 30W PoE, Max 190W & 2x Non-PoE), 3x 100M/1G/2.5G SFP, 18-75VDC
AMG570-2GBT-4GAT-2G-3S-P290-LV	8x 10/100/1000TX (2x 90W, 4x 30W PoE, Max 290W & 2x Non-PoE), 3x 100M/1G/2.5G SFP, 9-36VDC
AMG570-4GBT-4G-3S-P190-LV	8x 10/100/1000TX (4x 90W PoE, Max 190W & 4x Non-PoE), 3x 100M/1G/2.5G SFP, 18-75VDC
AMG570-4GBT-4G-3S-P290-LV	8x 10/100/1000TX (4x 90W PoE, Max 290W & 4x Non-PoE), 3x 100M/1G/2.5G SFP, 9-36VDC

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 Mouting Brackets & Screws For Wall / Surface Mouting AMG570 Series Products USB Type A to Type C Console Cable (1.5M)







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



In a continuing effort to improve and advance technology, product specifications are subject to change without notice. Please visit www.amgsystems.com for the latest product specifications

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