








AMG MULTI-SERVICE ETHERNET SWITCH SERIES



Ruggedised Ethernet Solutions

AMG's Multi-Service Ethernet Switch offers unique features which will prove of huge benefit when implementing IP-based, integrated security systems.



 Gigabit x6	 100/1000 x4	 Data 232/422/485	 Contacts In/Out	 Managed Full	 Temp -40~+70°C	 Secure 802.1x
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[AMG9024GM-HP-H-2S2I8C]

/ OVERVIEW

As well as supporting Layer 2 Managed Ethernet functionality, this product also supports the integration of low-speed I/O, allowing Serial Ports and Alarm Contacts to be directly connected to the switch, without any requirements for additional hardware.

Historically, this requirement has been dealt with through the use of third-party Serial port and Contact-closure I/O servers, resulting in a disparate, multi-vendor product mix and corresponding issues with product integration.

This product uniquely offers a common web-browser interface for configuration of all aspects of the device - Ethernet as well as Serial ports and Alarm I/O.

Serial ports and Alarm I/O can be configured as either point-to-point circuits, or as virtual circuits when interfaced with Management Systems.

These flexible, compact and easy to use fully managed Ethernet switches also have the benefit of Spanning Tree and Rapid Spanning Tree Protocols, and IGMP functionality to deal with the multicast traffic which is commonly used in IP CCTV deployments.

/ FEATURES

- Standalone and rackmount formats
- 10/100/1000 Mbps full bandwidth Ethernet
- Compliant with all IEEE 802.3 variants (u/ab/x/z)
- Compliant with all relevant Safety and EMC Standards
- Dual Speed SFP (100 and 1000 Mbps)
- Supports RSTP, MSTP, ERPS, SNMP v1-3 and IGMP v1-3
- Supports Flow Control for full duplex and back pressure for half duplex
- Port trunk functionality available with LACP
- IEEE 802.1x Port Security
- Extended operating temperature compared with industry equivalents -40°C to +70°C
- On-board PoE

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 and Back Pressure
IEEE 802.3ad	Port Trunk with LACP
IEEE 802.3ac	Frame Size Extension
IEEE 802.1d	Spanning Tree
IEEE 802.1w	Rapid Spanning Tree
IEEE 802.1s	Multiple Spanning Tree
IEEE 802.1Q	VLANs
IEEE 802.1x	Port Security
IEEE 802.3at	Power over Ethernet
RFC1112	IGMP v1
RFC2236	IGMP v2
RFC3376	IGMP v3
RFC1305, 5905	Simple Network Time Protocol
ITU-T G.8032	Ethernet Ring Protection Switching
Other	SNMP v1, v2c, v3 DHCP Client (IPv4/IPv6) Traffic Mirroring Per VLAN RSTP LLDP GARP, GMRP, GVRP RADIUS client for IPv4 DNS client for IPv4 TACACS+ client for IPv4
Processing Type	Store-and-Forward
Address Table Size	8K MAC addresses
Bandwidth Control	Ingress Packet Filter and Egress Rate Limit The packet filter rate can be set from 100K to 250Mbps

Interface.

LED Indicators	
Per port	10/100/1000, FDX/HDX
Data	IN, OUT,
Contacts	IN, OUT
PoE	P1, P2
25-Way D-Sub	25-way D Female for all Serial Data and Alarm contact I/O
Software Update	Remote Programmable
Configuration	Web Browser SNMP

Ethernet.

	Auto MDI/MDIX
AMG9024	
RJ45 Ports UTP	2x 10/100/1000T
SFP Ports	2x 100/1000T / 100/1000X 2x 1000X
AMG9064	
RJ45 Ports UTP	6x 10/100/1000T (2x Managed, 4x Unmanaged)
SFP Ports	1x 100/1000T / 100/1000X 2x 1000 X

Power.

Input Voltage	DC +12V to +24V
Power Consumption	15 Watts
Reverse Polarity	
Protection	Yes
Removable Terminal	
Block	Redundant power supply with alarm
Note: Redundant PSUs are supported	

PoE/PoE+.

Input Voltage	DC +48 to +56V
Output Power	25.5 to 34.2W
Output Voltage	DC +50V to +57V
Output Current	Max 600mA

Serial Data.

Data Rate	Maximum 115.2kb/s
Low Speed	
Interface Options	2 or 4x RS485 / RS422 / RS232

Specifications.

Alarms/Contacts.

I/O	4 or 8 x Alarms In/Out
Input level	100kΩ pull-up to 3v3
Output	
Interface	SS Relay, n/o contacts
Output current	100mA
Maximum voltage	+24Vdc

General.

Operating Temp.	-40°C to +70°C (maximum 65°C with Copper SFP's)
Storage Temp.	-45°C to +85°C
Ambient Relative Humidity	0% to 95% (Non-condensing)
MTBF	>730,000 hrs

Mechanical.

Casing	IP 30 Protection Metal case
Dimensions (W x D x H):	
AMG9024	
Standalone	70 x 170 x 112 mm
Rackmount	14HP x 172 mm x 3U
AMG9064	
Standalone	105 x 170 x 112 mm
Rackmount	21HP x 172 mm x 3U
Weight	1kg
Installation	Wall Mount Design (Subrack or DIN-Rail mounted options also available)

Regulatory.

Europe	CE
US	FCC



Part Numbers.

AMG9024GM-H-2S4C	14HP GigE 6 Port Managed Switch + 2 Serial Ports + 4 Bi-Di Alarms
AMG9024GM-HP-H-2S4C	14HP GigE 6 Port Managed Switch with PoE+, + 2 Serial Ports + 4 Bi-Di Alarms
AMG9024GM-H-2S2I8C	14HP GigE 6 Port Managed Switch + 2 Serial Ports + 2 ISO Serial Ports + 8 Bi-Di Alarms
AMG9024GM-HP-H-2S2I8C	14HP GigE 6 Port Managed Switch with PoE+, + 2 Serial Ports + 2 ISO Serial Ports + 8 Bi-Di Alarms
AMG9064GM-HP-H-2S2I8C	21HP GigE 9 Port Managed Switch with PoE+, + 2 Serial Ports + 2 ISO Serial Ports + 8 Bi-Di Alarms

Recommended PSUs.

Non-PoE	AMG2004	15V _{DC} , 24W Power Supply, DIN-Rail mounting.
PoE Variants	AMG2019	48-55V _{DC} , 120W Power Supply, DIN-Rail mounting
	AMG2012	47-56V _{DC} , 240W Power Supply, DIN-Rail mounting

Notes.

Rackmount Options are also available, just add 'R' to the end of the part number e.g. AMG9024GM-H-2S2I8C-R
 Optional Accessories: SFP modules - Optical/Copper see separate list, need to be ordered separately

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