

# COMMERCIAL LAYER 2+ 10GB MANAGED SWITCHES WITH POE+



## Commercial Ethernet Solutions

The AMG Commercial, Fully Managed Ethernet switches are designed for medium to large network environments to strengthen network connectivity.



[ AMG9CLMP-24GH-4XS-P500 ]

### / OVERVIEW

The AMG Commercial Layer 2+ 10Gb Managed Ethernet switches are designed for medium or large network environments to strengthen its network connections.

The switches have 128Gbps non-blocking switch fabric and the 24 gigabit ports and 4 1/10G SFP+ ports can transmit and receive data traffic without any loss.

The Energy Efficient Ethernet EEE feature reduces the power consumption when there is no traffic forwarding even port is still connected. The 10G uplink ports are important for high bandwidth uplink requests when cascaded with other switches.

Including full Layer 2+ Management features, the switches have the benefit of redundant ring technology as well as advanced VLAN features. IGMP v1-3 support allows for greater control of Multicast traffic across the network.

Advanced security features allow for greater control of access to management features as well as network devices.

### / FEATURES

- Provides high power (30 Watt) PoE+ to edge devices
- Compliant with all IEEE 802.3 variants (u/ab/x/z)
- SFP slots support 1/10Gb SFPs
- 100BaseT and 1000BaseT copper port can support full/half-duplex, autonegotiation, auto-MDI/MDIX eliminating need for RJ-45 crossover cables
- Layer 2+ Full Managed Software Features
- Link Loss Forwarding (LLF) and Link Fault Pass through (LFP) functions
- LED indicators
- Up to 2km on multimode fibre
- Up to 120km on singlemode fibre
- 19" rackmount format
- Easy to maintain

# Specifications.

## Standards.

IEEE802.3	10BaseT
IEEE802.3u	100BaseTX, 100BaseFX
IEEE802.3ab	1000BaseT
IEEE802.3z	1000BaseSX/LX
IEEE802.3ae	10Gb Ethernet
IEEE802.3x	Flow Control and Back Pressure
IEEE802.3af	Power over Ethernet
IEEE802.3at	Power over Ethernet+
IEEE802.3az	Energy Efficient Ethernet
IEEE 802.1Q	Virtual LAN
IEEE802.1x	Port-based Network Access Control
IEEE802.1p	Class of Service, Priority Protocols
IEEE802.3ad	Port Trunk with LACP
IEEE802.1d	Spanning Tree Protocol
IEEE802.1w	Rapid Spanning Tree Protocol
IEEE802.1s	Multiple Spanning Tree Protocol
IEEE802.1ab	Link Layer Discovery Protocol (LLDP)
Address Table Size	32K MAC addresses
Buffer Memory	4MB
Switch Fabric	128Gbps
Forwarding Rate	95.42Mpps
Jumbo Frame Support	9.6K
IP Protocol	IPv4/IPv6 Dual Protocol Support

## Interface.

LED Indicators Per Port:	Power Link/Activity, PoE Act/Status
RJ45 Port	24 x 10/100/1000BaseT Auto MDI/MDI-X
SFP Port	2x 100/1000M SFP

## PoE Features.

Max Output per Port	30W
Power Consumption	130W, 250W or 430W
PoE Management	Enable/Disable per-port priority Setting per-port Maximum power per-port/system PoE Mode Setting per-port

## Features.

VLAN	802.1Q Tagged Based, QinQ, Port-based Voice VLAN, Private VLAN, MVR, MAC-Based VLAN, Protocol-BasedVAN
Max. VLAN Group Link Aggregation	4K Static Trunk & IEEE 802.3ad with LACP
Max. Groups:	14
Max. Ports/Group:	8
Quality of Service Management	Up to 8 queues CLI, Telnet, SNMP, Web, SSH
IGMP	v1, v2, v3
SNMP	v1, v2c, v3
RMON	RMON 1, 2, 3 & 9 groups
DHCP	Client, Relay, Option82, Snooping
Port Mirroring	One to Many/ Many to One
Security	MAC Address Filtering TCP/UDP Port Filtering RADIUS TACACS+

## Power.

Input	100~240V <sub>AC</sub>
Output	48-56VDC, up to 30W per port
Consumption	15W max (without PoE)

## Mechanical.

Casing	IP30 Protection Aluminium Case
Dimensions	440 x 220 x 44 mm
Weight	4.3kg

## Environmental.

Operating Temp.	0°C to 45°C
Storage Temp.	-20°C to 90°C
Humidity	5% to 90% (non-condensing)

## Regulatory.

Safety	FCC Class A, Class B, CE
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## Application Notes.

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- All LAN Ethernet fibre extensions
  - Inter building connectivity
  - IP security & surveillance systems
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## Part Numbers.

AMG9CLMP-24GH-4XS-P250	24 x 10/100/1000TX with 802.3at PoE+ & 4 x 1/10Gb SFP+ (Power at 250Watt)
AMG9CLMP-24GH-4XS-P500	24 x 10/100/1000TX with 802.3at PoE+ & 4 x 1/10Gb SFP+ (Power at 500Watt)

## Recommended PSUs.

Units are mains powered

## Notes.

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