Industrial Managed 8 Port Gigabit PoE Switch (IEEE802.3af/at/bt)
With Voltage Booster Function

Features

- 8x10/100/1000Base-TX RJ45 ports, 8xPoE
- Support Auto-MDIX, and full/half duplex self-negotiation mode
- 12-56V DC redundant power with reverse polarity protection
- 4K MAC address table
- Support Full gigabit L2 management
- Support IEEE802.3az energy efficient Ethernet technology
- Support IPv6 Protocol
- Electric 6KV surge protection, easy to use in outdoor environment
- Complete status indicator, working state at a glance
- Power input polarity protection design, no worry about wrong operation

Product description

MMH-POE-8P-BT is a managed industrial PoE switch designed for reliable and efficient network applications. It features 8× 10/100/1000Base -TX ports that ensure stable Ethernet transmission, all within a compact, fanless, and low-power design that enhances reliability and reduces maintenance costs.

Positioned for broadband network access, the MMH-POE-8P-BT supports fast Ethernet data exchange, aggregation, and long-distance fiber transmission, delivering high bandwidth and stable connectivity for diverse industrial needs.

For critical environments, it offers dual power input for redundancy and an extended operating temperature range of –40°C to 75°C. Housed in a rugged IP40 DIN-rail or wall-mount enclosure, the switch is ideal for harsh industrial settings, transportation systems, and other demanding applications.

Product specification

Ethernet	
RJ45 port and speed:	8x10/100/1000Base-TX
Standards:	IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X) and 100BaseFX IEEE 802.3ab for 1000BaseT(X) IEEE 802.3z for 1000BaseSX/LX/LHX/ZX IEEE 802.3x for flow control IEEE 802. 1D-2004 for Spanning Tree Protocol IEEE 802. 1w for Rapid Spanning Tree Protocol IEEE 802. 1s for Multiple Spanning Tree Protocol IEEE 802. 1p for Class of Service IEEE 802. 1Q for VLAN Tagging IEEE 802. 1X for authentication IEEE 802.3ad for Port Trunk with LACP
Packet buffer:	4Mbits
Maximum packet length:	Up to 10k Bytes
MAC address table:	8K
Transmission mode:	Store and Forward(full/half duplex mode)
Exchange property:	Delay time: < 7μs Backplane bandwidth: 24Gbps Packet forwarding rate: 1488100 (64Byte)
Power:	Connect-always
RJ45:	Link/Act: connect-always; data exchange-twinkle
Environmental	
Operating Temperature:	-40℃~75℃
Relative Humidity:	5%~90% non-condensing
Storage：	-40℃~85℃
MTBF：	500,000 hours
PoE (Power over Ethernet)	
PoE Ports：	Port 1-8
Pin Assignment：	Default: 1/2/4/5(+), 3/6/7/8(-)
Max Power Per Port:	IEEE802.3 af/at/bt 90W
Total PWR /Input Voltage:	DC12-56V
Power Consumption:	10Watts Max(without PoE load)
PoE Power Budget	Mode: 12VDC，Total PoE Power(Max) 70W Mode: 24VDC，Total PoE Power(Max) 120W Mode: 48VDC，Total PoE Power(Max) 240W Mode: 52-56VDC，Total PoE Power(Max) 480W
Dimensions (W x D x H):	138 x 108 x 49 mm
Weight:	0.68Kg
Casing:	IP40 aluminum case
Mounting Options:	DIN Rail / Wall-Mount
Software	
Redundant Network	Support STP/RSTP/MSTP/ERPSv2(Sub-50ms), Link Aggregation
Multicast Support	Support IGMP Snooping V1/V2/V3,GMRP, GVMP, IEEE 802.1Q
VLAN	Supports IEEE 802.1Q (4K VLANs), QINQ, Double VLAN

Time Management		SNTP
QOS		Flow-based (redirection, rate limiting, packet filtering); 8 queues/port; 802.1p/DSCP priority mapping; Diff-Serv; Priority Marking/Remark; Scheduling (SP, WRR, SP+WRR)
ACL		Port/VLAN ACL; L2-L4 packet filtering (80-byte packet matching); Supports filtering by MAC (src/dst), IP (src/dst), IP protocol, TCP/UDP port/range, VLAN, etc.
Diagnostic Maintenance		Support port mirroring,Syslog,Ping
Management Function		Supports CLI, WEB, SNMPv1/v2/v3, Telnet; EEE, LLDP; DHCP Server/Client (IPv4/IPv6); Cloud/MQTT management
Alarm Management		Support 1 way relay alarm output, RMON, TRAP
Security		Broadcast Storm Protection, HTTPS/SSLv3, AAA & RADIUS, SSH2.0 Support DHCP Snooping, Option 82，802.1X security access, Support user hierarchical management, ACL access control list, Support DDOS，port-based MAC filtering / binding, MAC black holes, IP source protection, Port isolation, ARP message speed limit
Advance Layer 2+ Features		IPv4/IPv6 Management;Static Route
DIP Switch	State	Description
#1	ON	RSTP Disabled
	OFF	RSTP Enable(Default)
#2	ON	Port VLAN Enable
	OFF	Port VLAN Disable(Default)
#3		Function Reserve
#4		Function Reserve

NOTE

1. DIP Switch #1 (RSTP): ON = Disabled; OFF = Enabled (Default)
2. DIP Switch #2 (Port VLAN): ON = Enabled (LAN ports only communicate with SFP uplinks); OFF = Disabled (Default)
3. DIP switch settings require a device reboot to take effect (even during operation)