



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

WXA-I08GM-PB Series is a managed industrial PoE switch designed for reliable and efficient network applications. It features 8x 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, it 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.



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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 (LED)	Connect-always
RJ45 (LED)	Link/Act: connect-always; data exchange-twinkle	
Environmental	Operating Temperature	-40℃~75℃
	Relative Humidity	5%~90% non-condensing
	Storage Temperature	-40℃~85℃
	MTBF	500,000 hours
PoE (Power	PoE Ports	Port 1-8



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over Ethernet)	Pin Assignment	Default: 1/2/4/5(+), 3/6/7/8(-)
	Max Power Per Port	IEEE 802.3af/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
Physical	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



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	Security	Broadcast Storm Protection, HTTPS/SSLv3, AAA & RADIUS, SSH2.0Support DHCP Snooping, Option 82, 802.1X security accessSupport user hierarchical management, ACL access control listSupport 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	#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)