

8-Port Gigabit TX + 4-Port Gigabit FX L2+ Managed Industrial Ethernet Switch



Features

- ▶ 8x10/100/1000Base-TX RJ45 ports, 4x100/1000Base-FX fiber ports
- ▶ Provide SC/FC/ST/LC interface fiber port, support single/dual fiber transmission
- ▶ Support Auto-MDIX, and full/half duplex self-negotiation mode
- ▶ Support 10K bytes giant frame, compatible with various extension protocol
- ▶ 8K MAC address table
- ▶ Full gigabit L2+ management, easy to manage the industrial network by CLI/WebGUI/NMS
- ▶ Build up a redundant network with STP/RSTP/MSTP/ERPSv2
- ▶ RADIUS, IEEE 802.1X, SNMPv3, HTTPs and SSH to enhance network security
- ▶ Bandwidth management prevents unpredictable network status with "Lock Port" to restrict access to authorized MAC addresses
- ▶ QoS, Priority mode based on 802.1P, Port & DSCP, queue scheduling algorithm including SP, WRR&SP+WRR
- ▶ Support IEEE802.3az energy efficient Ethernet technology
- ▶ IP40 Aluminium case, Fanless design
- ▶ Electric 8KV surge protection, easy to use in outdoor environment
- ▶ -40 to +75°C operating temperature
- ▶ 9-56V DC redundant power with reverse polarity protection
- ▶ Power input polarity protection design, no worry about wrong operation
- ▶ DIN-rail and wall mount installation
- ▶ Optional support for IEEE 802.3 af/at/bt PoE
- ▶ Optional management function

Product Description

WXA-L2I08GM-4SFP is the new-generation managed industrial switch features 8x10/100/1000Base-TX ports and 4 gigabit uplink ports, delivering stable, reliable Ethernet transmission. Boasting robust design and reliability, it supports rich management functions, plus network redundancy protocols (STP/RSTP/MSTP/ERPS) and IGMP for multicast traffic—ideal for IP CCTV deployments.

Equipped with dual redundant power inputs, the switch ensures uninterrupted operation for mission-critical, always-on applications. It operates in a wide industrial temperature range (-40~75°C) and comes in a rugged IP40 enclosure, supporting DIN rail or wall mounting. Perfect for harsh environments, it fits industrial networks, intelligent transportation systems (ITS), military, and utility applications where conditions exceed commercial product specifications.



Product Specification

Ethernet	RJ45	8×10/100/1000Base-TX
	Fiber Port	4×100/1000Base-FX
	Ethernet Standards	IEEE 802.3 (10BaseT), 802.3u (100BaseT(X)/100BaseFX), 802.3ab (1000BaseT(X)), 802.3z (1000BaseSX/LX/LHX/ZX), 802.3x (Flow Control), 802.3ad (Port Trunk with LACP); IEEE 802.1D-2004 (STP), 802.1w (RSTP), 802.1s (MSTP), 802.1p (CoS), 802.1Q (VLAN Tagging), 802.1X (Authentication)
	Packet Buffer	4Mbits
	Max Packet Length	Up to 10K Bytes
	MAC Address Table	8K
	Transmission Mode	Store and Forward (full/half duplex)
	Switching Performance	Latency: < 7μs; Backplane Bandwidth: 24Gbps; Packet Forwarding Rate: 1488100 pps (64Byte)
LED Indicators	Power	Steady on when connected
	RJ45 Ports	Link/Act: Steady on when connected, blinking during data transmission
	Fiber Ports	Link/Act: Steady on when connected, blinking during data transmission
Software	Redundancy Protocols	Supports STP/RSTP/MSTP/ERPSv2 (Sub-50ms), Link Aggregation
	Multicast Support	IGMP Snooping V1/V2/V3, GMRP, GVMP, 802.1Q
	VLAN	IEEE 802.1Q 4K VLAN, QinQ (Double VLAN)
	Time Management	SNTP
	QoS	Flow-based redirection/rate limiting/packet filtering; 8 output queues per port; 802.1P/DSCP priority mapping; Diff-Serv QoS; Scheduling algorithms: SP, WRR, SP+WRR
	ACL	Port-based ACL, port+VLAN-based ACL; L2-L4 packet filtering (matches first 80 bytes); Supports filtering by MAC/IP/Destination IP/IP Protocol/TCP/UDP Port/VLAN, etc.
	Diagnostic & Maintenance	Port mirroring, Syslog, Ping
	Management	CLI, WEB, SNMPv1/v2/v3, Telnet; IEEE, LLDP, DHCP Server/Client



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	Functions	(IPv4/IPv6), Cloud/MQTT
	Alarm Management	1-way relay alarm output, RMON, TRAP
	Security	Broadcast Storm Protection, HTTPS/SSLv3, AAA & RADIUS, SSH2.0; DHCP Snooping (Option 82), 802.1X; User hierarchical management, IP source guard, Port Isolation, ARP rate limiting, MAC filtering/binding, DDoS protection
	Advanced L2+ Features	IPv4/IPv6 Management, Static Routing
DIP Switch	#1	ON: RSTP Disabled; OFF: RSTP Enabled (Default)
	#2	ON: Port VLAN Enabled (LAN ports only communicate with SFP uplinks); OFF: Port VLAN Disabled (Default)
	#3	ON: SFP Port 100M (Forced); OFF: SFP Port 100/1000M (Auto-negotiation, Default)
	#4	Function Reserved
	Note: DIP switch settings require device reboot to take effect.	
Electrical & Mechanical	Input Method	Phoenix terminal, DC jack
	Redundant Input	DC 9-56V, dual redundant inputs
	Protection Functions	Overload protection, reverse polarity protection
	Power Consumption	< 10W under full load
	Protection Grade	IP40 aluminum case
	Cooling Mode	Natural cooling, fanless design
	Dimensions (W×D×H)	138mm × 108mm × 49mm
	Installation	DIN rail/wall-mountable
	Weight	0.68Kg
Environmental	Operating Temperature	-40℃ ~ 75℃
	Operating Humidity	5% ~ 90% non-condensing
	Storage Temperature	-40℃ ~ 85℃



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Certifications	MTBF	500,000 hours
	EMI	FCC Part15 Subpart B Class A, EN 55022 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, EN61000-4-11
	Mechanical Reliability	IEC60068-2-27 (Collision), IEC60068-2-32 (Drop), IEC60068-2-6 (Vibration)
	Safety Grade	EN60950-1