



16-Port Gigabit RJ45 +4-Port Gigabit SFP L2+ Managed Industrial Ethernet Switch

Features

- ▶ 16 Gigabit copper ports + 4 Gigabit fiber ports, supporting SC/FC/ST/LC interfaces and single/dual-fiber transmission
- ▶ Auto-negotiation, jumbo frame compatibility, 8K MAC address table for efficient and stable transmission
- ▶ 8KV surge protection, -40~+75°C wide operating temperature range
- ▶ IEEE802.3az energy efficiency, IP40 aluminum case with fanless design
- ▶ Redundant DC power (9-56V) with reverse polarity protection
- ▶ L2+ management (CLI/WebGUI/NMS) + redundant protocols (STP/RSTP/MSTP/ERPSv2)
- ▶ Multiple security mechanisms (RADIUS, 802.1X, SNMPv3, etc.) + QoS priority management
- ▶ DIN-rail/wall mount, clear status indicators, easy installation and maintenance
- ▶ Optional support for IEEE 802.3 af/at/bt PoE
- ▶ Optional management function



Product Description

WXA-L2I016GM-4SFP Series is the new generation managed industrial switch features 16 Gigabit copper ports and 4 Gigabit uplink ports, delivering stable, reliable Ethernet transmission with high-quality, rugged design. It supports comprehensive management functions, along with network redundancy protocols including Rapid Spanning Tree, Multiple Spanning Tree, and Ethernet Ring Protection Switching (ERPS). IGMP functionality is also included to efficiently handle multicast traffic—ideal for IP CCTV deployments.

Equipped with a dual power input design, the switch provides redundancy for mission-critical applications requiring 24/7 connectivity. It operates across an industry-standard wide temperature range of -40 to 75°C and comes in a rugged IP40 enclosure, supporting DIN-rail or wall mounting.

Engineered for harsh environments, this switch is the perfect choice for industrial networking, intelligent transportation systems (ITS), military applications, and utility markets—where operating conditions exceed commercial product specifications.



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Product Specification

Ethernet	Standards	IEEE 802.3 (10BaseT), 802.3u (100BaseT(X)/FX), 802.3ab (1000BaseT(X)), 802.3z (1000BaseSX/LX/LHX/ZX), 802.3x (flow control), 802.1D (STP), 802.1w (RSTP), 802.1s (MSTP), 802.1p (CoS), 802.1Q (VLAN), 802.1X (authentication), 802.3ad (LACP)
	Packet Buffer	4Mbits
	Max Packet Length	Up to 10k Bytes
	MAC Address Table	8K
	Transmission Mode	Store and Forward (full/half duplex)
	Delay Time	< 7 μ s
	Backplane Bandwidth	40Gbps
	Packet Forwarding Rate	1488100 pps (64Byte)
Interfaces	RJ45	16x Gigabit (10/100/1000Base-TX)
	Fiber Ports	4x Gigabit (100/1000Base-FX)
	PoE Ports (Optional)	Port 1-16, compliant with IEEE 802.3af/at (30W max per port) or IEEE 802.3af/at/bt (90W max per port)
LED Indicators	Power Indicator	Steady on when connected
	RJ45/Fiber Indicators	Steady on when linked, blinking during data transmission
Software	Redundancy Protocols	STP/RSTP/MSTP/ERPSv2 (Sub-50ms), Link Aggregation
	Multicast Support	IGMP Snooping V1/V2/V3, GMRP, GVMP
	VLAN Support	IEEE 802.1Q 4K VLAN, QINQ, Double VLAN
	Time Management	SNTP
	QoS Features	Flow-based redirection/rate limiting/packet filtering; 8 output queues per port; 802.1p/DSCP priority mapping; Diff-Serv QoS; Queue Scheduling (SP/WRR/SP+WRR)
	ACL Support	Port/VLAN-based ACL; L2-L4 packet filtering; MAC/IP/Destination-based ACL; TCP/UDP port range filtering
	Diagnostic & Maintenance	Port mirroring, Syslog, Ping
	Management	CLI, WEB, SNMPv1/v2/v3, Telnet; EEE, LLDP; DHCP Server/Client



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	Functions	(IPv4/IPv6); Cloud/MQTT
	Alarm Management	1-way relay alarm output, RMON, TRAP
	Security Features	Broadcast Storm Protection, HTTPS/SSLv3, AAA/RADIUS, SSH2.0; DHCP Snooping (Option 82), 802.1X; User hierarchical management, ACL; DDOS protection, MAC filtering/binding, IP source protection, Port isolation, ARP speed limit
	Advanced L2+ Features	IPv4/IPv6 Management, Static Route
Electrical & Mechanical	Input Mode	Non-PoE Version:Phoenix terminal + DC jack PoE Version:2 dual redundant power inputs
	Input Voltage	DC 9-56V (Non-PoE), DC 48-56V (PoE), DC 52-56V (PoE++)
	Protection Features	Overload protection + reverse polarity protection
	Max Power Consumption	Non-PoE Version:< 18W (full load); PoE Version:24W (without PoE load)
	Protection Grade	IP40 (aluminum case)
	Cooling Mode	Natural cooling (fanless design)
	Dimensions (W×D×H)	160mm × 132mm × 70mm
	Installation	DIN rail / Wall-mountable
	Weight	1.2Kg
Environmental	Operating Temperature	-40°C ~ 75°C
	Operating Humidity	5% ~ 90% (non-condensing)
	Storage Temperature	-40°C ~ 85°C
	MTBF	500,000 hours