



Layer 3 Rack-mount Managed Industrial Ethernet Switch

Features

- ▶ 6×10G/1G SFP+ ports + 48×Gigabit RJ45 ports
- ▶ ERPS ring network protection, self-recovery time < 20ms
- ▶ Layer 3 routing: Static Route, RIPv1/v2, OSPFv2; IPv6 static routing supported
- ▶ Rich Layer 2 functions: VLAN, QoS, STP/RSTP/MSTP, Link Aggregation
- ▶ Dual power input: DC 9~56V or AC 85~264V / DC110~370V optional
- ▶ Built-in reverse connection, over-current and over-voltage protection
- ▶ Industrial wide temperature: -40°C ~75°C operating temperature
- ▶ IP40 aluminum enclosure, 1U rack mounting
- ▶ Low full-load power consumption ≤36W



Product Description

WXA-I024G-246SFP+ is a 1U rack-mount Layer 3 managed industrial Ethernet switch equipped with 6×10G/1G SFP+ fiber ports and 48×10/100/1000Mbps adaptive RJ45 copper ports. It supports static routing, RIP, OSPF dynamic routing protocols, complete Layer 2 management functions, and ERPS ring network with recovery time < 20ms.

Designed for industrial harsh environments, it features -40°C ~75°C wide temperature operation, IP40 protection, dual redundant power input, over-current, over-voltage and reverse connection protection. Low power consumption ≤36W, high stability with MTBF ≥300,000 hours. Ideal for industrial networking, intelligent transportation, utility and military network aggregation & core ring deployment.



Product Specification

Standards	Ethernet Standards	IEEE 802.3, 802.3u, 802.3ab, 802.3ae, 802.3z, 802.3x
	Management Standards	IEEE 802.1D, 802.1Q, 802.1p
Switching Performance	Switching Capacity	216 Gbps
	MAC Address Table	16K entries
	Packet Buffer	12 MB
	Latency	≤ 7 μs
	Forwarding Mode	Store-and-Forward
	Max Frame Size	12 KB
Interface	Ports	6 × 10G/1G SFP+ (support DDM) 48 × 10/100/1000BASE-T RJ45 1xRJ45 Console Port 1xUSB 2.0 Storage Port
	Transmission Distance	20km/40km/60km/80km; single-fiber optional
Power Supply	Input Voltage	Dual redundant DC 9–56V or AC 85–264V/DC 110–370V
	Connector	5-pin 5.08mm Phoenix terminal
	Protection	Reverse polarity, over-current, over-voltage
	Power Consumption	≤ 36W (full load)
Environmental	Operating Temperature	-40°C to +75°C (fanless)
	Storage Temperature	-40°C to +85°C
	Humidity	5%–95% non-condensing
	Protection	IP40
Mechanical	Dimensions	482.6 × 44.45 × 300 mm (W×H×D)
	Weight	3.2 kg
	MTBF	≥ 300,000 hours
	Mounting	1U Rack-mount
System Management	Management Mode	Web, CLI, Console, Telnet
	Network Management	SNMP v1/v2c/v3



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	System Functions	Backup / Restore / Reboot / Factory default
MAC Management	MAC Learning	Static + Dynamic
	MAC Features	Aging, filtering, blackhole MAC
VLAN	Max VLAN	4K
	VLAN Type	Port-based, MAC-based, Protocol-based
	VLAN Features	GVRP, Voice VLAN, Surveillance VLAN
Spanning Tree	Protocol	STP, RSTP, MSTP
	Protection	Edge Port, BPDU Filter, BPDU Guard
QoS	Priority	802.1p, DSCP
	Scheduling	SP, WRR, SP+WRR
	Rate Limit	Ingress/Egress/Queue rate limiting
Multicast	IGMP Snooping	IGMPv2, IGMPv3
	Multicast	MLD Snooping, MVR
DHCP	Mode	Server, Client, Dynamic IP
	Security	DHCP Snooping, Option 82
Layer 3 Routing	IPv4	Static, RIPv1/v2, OSPFv2
	IPv6	Static routing
	Redundancy	VRRP
Reliability	Link Aggregation	Static LAG, LACP
	Ring Network	ERPSv1/v2, self-healing <20ms
Security	ACL	L2/L3/L4 ACL
	Port Security	Isolation, sticky MAC, limit learning
	Authentication	AAA, RADIUS, TACACS+
	Attack Defense	Anti-DDoS, SYN/UDP Flood, ARP spoofing
	Binding	IP+MAC+Port+VLAN binding
	Storm Control	Broadcast/multicast/unknown unicast suppression