



Industrial Managed 24 Port Gigabit + 4-port Gigabit SFP Ethernet Switch

Features

- ▶ 24x 10/100/1000BASE-T Gigabit RJ45 + 4x 100/1000BASE-X SFP slots
- ▶ Optional IEEE 802.3af/at/bt PoE support
- ▶ Optional management function
- ▶ Full Gigabit L2+ management (CLI/WebGUI/NMS)
- ▶ Redundant industrial network (STP/RSTP/MSTP/ERPSv2)
- ▶ VLAN flexibility (Port-based/IEEE 802.1Q/GVRP)
- ▶ 802.1p/CoS-based QoS (WRR/Strict priority)
- ▶ Multi-level SNMP (v1/v2c/v3) management
- ▶ -40~75°C (-40~167°F) wide operating temperature
- ▶ Compact fanless all-aluminum housing



Product Description

WXA-L2I024GM-4SFP series is the Next-gen managed industrial switch featuring 24x 10/100/1000Base-TX ports + 4x Gigabit uplinks, delivering stable, reliable Ethernet transmission. It supports comprehensive management functions, network redundancy protocols (RSTP/MSTP/ERPS), and IGMP for multicast traffic (ideal for IP CCTV).

Dual power inputs ensure redundancy for mission-critical, always-on applications. With a -40~75° C wide operating temperature range and rugged IP40 enclosure (DIN rail/wall-mount), it excels in harsh environments like industrial networking, ITS, military, and utility sectors-outperforming commercial-grade alternatives.



Product Specification

Interfaces	RJ45	24x 10/100/1000BASE-T RJ45 (Auto-MDI/MDI-X)
	Fiber Ports	4x 100/1000BASE-X SFP Slots
	Console Port	1x RJ45-to-RS232 Serial Port (115200 bps)
	Terminal Block Connector	1x Removable 6-contact terminal block (Pin 1/2: Power 1; Pin 3/4: Power 2; Pin 5/6: Fault Alarm)
	Alarm Output	1x Relay output (power failure detection); Current carry ability: 1A@24V DC
Memory & System	RAM	128 Mbyte
	FLASH	32 Mbyte
	Reset Button	< 5 sec: System Reboot; > 10 sec: Factory Default Restoration
Mechanical & Physical	Surge Protection	Power: ± 6 kV DC; RJ45: ± 4 kV DC (non-PoE models) / ± 6 kV DC (PoE models)
	Enclosure	IP40 Aluminum Case
	Installation Options	DIN-Rail / Wall-Mount
	Dimensions (WxDxH)	155x128x88 mm
	Weight	1.5Kg
Ethernet	Switch Architecture	Store-and-Forward
	Switch Fabric	56Gbps Non-blocking
	Forwarding Rate	41.66 Mpps (64-byte packet size)
	Packet Buffer Size	4 Mbits
	Maximum Packet Length	10K bytes
	MAC Address Table	8K entries (automatic source address learning and aging)
	Flow Control	IEEE 802.3x Pause Frame (full duplex); Back Pressure (half duplex)
PoE Specifications	PoE Support	Optional (non-PoE / 802.3af/at / 802.3af/at/bt)
	PoE Ports	Port 1-24 (for PoE-enabled models)
	PoE Power Supply Type	End-span (for PoE-enabled models)
	Power Pin Assignment	1/2(+), 3/6(-) (802.3af/at models); 1/2(+), 3/6(-) or 4/5(+), 7/8(-) (802.3af/at/bt models)



SHENZHEN WEIXIANG AN TECHNOLOGY CO., LTD

	Max Power per Port	30W (802.3af/at models); 90W (802.3af/at/bt models)
	PoE Power Budget	240W maximum (depending on power input, for PoE-enabled models)
Power Supply	Input Voltage	Non-PoE models: DC9-56V; 802.3af/at models: DC48-56V; 802.3af/at/bt models: DC52-56V
	Power Consumption	15 Watts Max (without PoE load)
Environmental	Operating Temperature	-40°C~75°C (-40 to 167 °F)
	Storage Temperature	-40°C~85°C (-40 to 185 °F)
	Operating Humidity	5%~95% (non-condensing)
	MTBF	907,476 hours @ Telcordia SR-332 Standard
Software	Port Configuration	Admin Status: Disable/Enable; Copper Port: Auto-negotiation (10/100/1000Mbps, full/half duplex); Fiber Port: 100M/1000M speed selection; Flow Control: Disable/Enable; Power Saving (EEE): Disable/Enable; Port Description
	Port Status Display	Speed, duplex mode, link status, flow control status, auto-negotiation status, fiber port information, port traffic
	Port Mirroring	Source: Ingress/Egress/Both; Many-to-1 monitoring
	VLAN	Up to 4K VLAN groups (4094 VLAN IDs); IEEE 802.1Q tag-based VLAN; IEEE 802.1AD Q-in-Q Tunneling (Double VLAN); GVRP
	Link Aggregation	IEEE 802.3ad LACP / Static Trunk; 6 trunk groups (4 ports per trunk max)
	Spanning Tree Protocol	IEEE 802.1D STP; IEEE 802.1w RSTP; IEEE 802.1s MSTP
	Ring Protocol	ITU-T G.8032 ERPS (Recovery time < 10ms)
	Multicast	Dynamic/Static Multicast Groups; IGMP Snooping v1/v2/v3; Port-based IGMP Snooping Fast Leave; GMP Querier
	Rate Limitation	Per Port Rate Limitation (Ingress/Egress: 16-1000000 kbps)
	QoS	Traffic classification-based; Strict Priority & WRR; 8-level priority (Port number / 802.1p / VLAN tag / DSCP/TOS)
	ACL	IP-based / MAC-based ACL; Filtering by MAC Address, IP Address, Ethertype, Protocol Type, VLAN ID, DSCP, 802.1p Priority
	Security Features	Port Security; Static MAC Address; IEEE 802.1x



SHENZHEN WEIXIANG AN TECHNOLOGY CO., LTD

		Port-based Authentication; RADIUS Authentication; DHCP Snooping (Option 82); MAC Filtering/Binding; IP Source Protection; Port Isolation; ARP Message Speed Limit
	PoE Management Functions (PoE-enabled models)	System Management; Port Status Monitoring; Total Power Budget Control; Usage/Temperature Threshold Alerts; Port Priority; PoE Mode Selection (PoE/PoE+/PoE++); PD Reboot (Zero Traffic Duration); Absolute/Periodic PoE Schedule
	Advance Layer 2+ Features	IPv4/IPv6 Management Static Route
	Management Interfaces	Basic: Console, Telnet, Web Browser, SNMPv1/v2c; Secure: SSHv2, TLSv1.2, SNMPv3
	System Management	Firmware Upgrade (HTTP); Configuration Upload/Download (HTTP); Remote Syslog; LLDP; Sntp; PREVIEW NMS; Alarm (Relay, LED, Temperature, Trap, Power)
DIP Switch	#1	ON: RSTP Disabled OFF: RSTP Enable (Default)
	#2	ON: Port VLAN Enable OFF: Port VLAN Disable (Default)
	#3	ON: SFP Port is 100M OFF: SFP Port 100/1000M(Default)
	#4	Function Reserve

NOTE

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



SHENZHEN WEIXIANG AN TECHNOLOGY CO., LTD

LED Indicator	State	Description
PWR (P1&P2)	ON	Power supplied
	OFF	No power supply
RUN	Blinking	System operating normally
	OFF	System malfunction
FAIL (PoE-only)	ON	PoE abnormal
	OFF	PoE normal
MAX (PoE-only)	ON	PoE power exceeds budget
	OFF	PoE power within budget
R.O.	ON	Ring Owner status
	OFF	Not Ring Owner
RING	ON	Ring enabled
	OFF	Ring disabled
Link/ACT (1-28)	ON	Port connected
	Blinking	Data transmitting
	OFF	No port connection
RJ45 Port Speed	ON	1000M running
	OFF	1000M not running
ALM	ON	Alarm present
	OFF	No alarm