



Mini Industrial Gigabit Ethernet Switch 2-Port Gigabit RJ45 + 1-Port Gigabit FX

Features

- ▶ 2 x 10/100/1000BASE-T RJ45 Auto-MDI/MDI-X Ports
- ▶ 1 x 1000BASE-X SC Port (Fiber Interface: LC/ST/FC Optional)
- ▶ Supports Full/Half-duplex, Auto-negotiation
- ▶ IEEE 802.3az Energy Efficient Ethernet (EEE)
- ▶ Optional IEEE 802.3af/at/bt PoE Support
- ▶ Supports DIN-Rail & Wall-mount Installation
- ▶ IP40 Aluminum Case
- ▶ Environmentally hardened Operating Temperature: -40°C to 75°C (-40°F to 167°F)



Product Description

WXA-I02G-1SC series hardened media converter is a high-performance industrial networking device tailored for copper-fiber hybrid network deployment. It is configured with 2x10/100/1000BASE-T Ethernet ports and 1x1000BASE-X fiber port (backward compatible with 100M bandwidth), realizing seamless bidirectional conversion between copper and fiber signals to satisfy multi-terminal access demands.

The Ethernet ports support flexible switching between half/full-duplex modes for compatibility with legacy and new network devices. With a rugged aluminum enclosure and -40°C~75°C wide temperature tolerance, it maintains consistent and reliable performance in extreme industrial environments like industrial workshops, outdoor security monitoring systems, and railway communication networks.



Product Specification

/		Non-PoE	30/60W PoE	90W PoE
Ethernet	Ethernet Standards	IEEE802.3 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE 802.3az (EEE)	IEEE802.3 10Base-T, IEEE802.3u 100Base-TX/FX, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE 802.3az (EEE)	IEEE802.3 10Base-T, IEEE802.3u 100Base-TX/FX, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE 802.3az (EEE)
	PoE Standards	-	IEEE802.3af/at	IEEE802.3af/at/bt
	Forwarding Mechanism	Store-and-Forward	Store-and-Forward	Store-and-Forward
	Forwarding Rate	14,880pps (10Mbps), 148,800pps (100Mbps), 1,488,000pps (1000Mbps)	14,880pps (10Mbps), 148,800pps (100Mbps), 1,488,000pps (1000Mbps)	14,880pps (10Mbps), 148,800pps (100Mbps), 1,488,000pps (1000Mbps)
	Packet Buffer Memory/Max Packet Length	1 Mbit/9K Bytes	1 Mbit/9K Bytes	1 Mbit/9K Bytes
	Address Table Size	2K MAC Addresses	2K MAC Addresses	2K MAC Addresses
Interface	Connector/Optical Port	2x RJ45 1 x 1000Base-X SC	2x RJ45 1 x 1000Base-X SC	2x RJ45 1 x 1000Base-X SC
Electrical & Mechanical	Input Power	12~48VDC, 4-pin terminal block	12~48VDC/48~57VDC, 4-pin terminal block	48~57VDC, 4-pin terminal block
	Output Power	N/A	48VDC	48VDC
	Power Consumption (Max.)	5W	65W/125W	185W
	LED Indicators	PWR (Power Status), L/A (Data LINK Status), SPD (Ethernet Status), 100M/1000M (Fiber LINK Status)	PWR (Power Status), L/A (Data LINK Status), POE (PoE Status), 100M/1000M (Fiber LINK Status)	PWR (Power Status), L/A (Data LINK Status), POE (PoE Status), 100M/1000M (Fiber LINK Status)
	Dimensions (WxDxH)	95 x 70 x 30 mm	95 x 70 x 30 mm	95 x 70 x 30 mm
	Weight	0.25Kg	0.25Kg	0.25Kg
Environmental	Operating Temperature	-40°C to 75°C (-40°F to 167°F)	-40°C to 75°C (-40°F to 167°F)	-40°C to 75°C (-40°F to 167°F)
	Storage Temperature	-40°C to 85°C (-40°F to 185°F)	-40°C to 85°C (-40°F to 185°F)	-40°C to 85°C (-40°F to 185°F)
	Relative Humidity	5% to 95% non-condensing	5% to 95% non-condensing	5% to 95% non-condensing
	MTBF	> 200,000 hrs	> 200,000 hrs	> 200,000 hrs