



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 2×10/100/1000BASE-T Ethernet ports and 1×1000BASE-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 |