JetCon 3401G
Industrial Gigabit Ethernet Media Converter

- Converts 10/100/1000TX to Gigabit Fiber
- Flexible SFP Fiber transceiver design
- Auto Fault Detection and Alarm
- Fault Alert for port and power
- Two way Link loss forwarding
- Power redundancy with wide range input
- IP-31 grade protection with wide range operating temperature
- 1.5KV Hi-Pot testing passed

CE FC RoHS

Real Industrial Gigabit Ethernet Media Converter

The JetCon 3401G, industrial Gigabit Ethernet media converter, is equipped with a rugged aluminum alloy case with IP-31 grade ingress protection against damage by solid objects or dust. With excellent heat dissipation characteristics, the JetCon 3401G is capable of performing better than ordinary Gigabit Ethernet media converters which are enclosed by steel metal with various heat dissipation holes. Unlike those with a single power input, the real time redundant power backup on JetCon 3401G leads to the functionality of a real Industrial Gigabit Ethernet Media Converter with the non-stop transmission.

Flexible Optical Adopt Ability

As is the trend of fiber interfaces, JetCon 3401G implements one hot-swappable socket for a Small Form-factor Pluggable (SFP) fiber transceiver. To adopt different types of fiber optical cables or to enlarge fiber network, users are simply required to replace the ideal type of fiber transceiver to meet the specification of optical fiber cable and are capable to achieve the best inventory performance.

Activate Fault Alarm

Most of the Gigabit Ethernet Media converters feature the Link Loss Forwarding function (L.L.F.) in order to forward link status changes to alert remote or central management system. However, this is only for the cable events, not suited to industrial network applications. The JetCon 3401G provides an alarm relay to trigger out a real alarm signal for port or power events. The alarm mechanism can be configured by a simple DIP switch and trigger an external alarm equipment to inform maintenance I.T. engineers. It results in the maintenance time saving.

Excellent Traffic Handling

The JetCon 3401G performs graceful traffic management ability. The entire traffic will be forwarded with the packet precedence or priority IDand resulted in different service priorities.

In Addition, it also filters unnecessary broadcast packets by the broadcast storm control and drops abnormal packets to enlarge network performance.

Dimensions (Unit –mm)

www.korenix.com
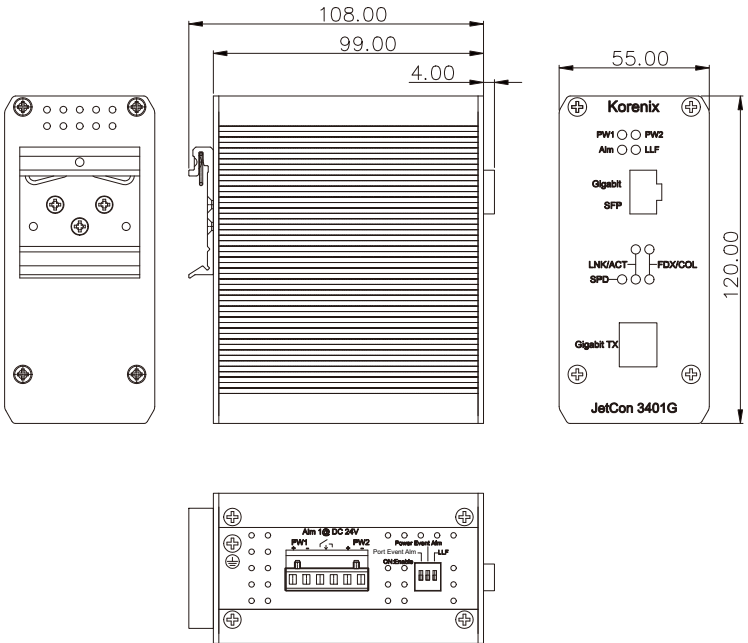
Specification

Technology

Standard:

IEEE802.3 10Base-T

IEEE802.3u 100Base-TX

IEEE802.3at 1000Base-T

IEEE802.3z Gigabit Ethernet Fiber

IEEE802.3x flow control and back-pressure.

IEEE802.1p Class of Service

IEEE802.1Q Quality of Service

Performance

Forwarding Technology: Store and Forward technology with 64 ~1536 bytes packet forwarding ability

System Throughput: 1.49Mpps

Packet buffer: 2.75Mbits

Link Loss Forwarding: Two-way loss-signature auto forwarding, configured by DIP switch

Event Alarm: Configurable relay alarm output for port or power events

Interface

Number of Ports: 1 x 10/100/1000 Base-TX with Auto MDI/MDI-X function, Auto-Negotiation

1 x SFP socket with hot-swappable function for Gigabit Ethernet SFP Transceiver

Connectors:

10/100/1000 Base-TX: RJ-45

SFP socket: support 3.3V Gigabit Ethernet 1.25Gbps Fiber Transceiver.

Terminal block: 4-Pin for redundant power input; 2-Pin for alarm relay output

Cables:

RJ-45 Connector: 4 pairs of Cat-5 UTP/STP cable with EIA/TIA 568B type conductor arrangement for 1000Base-T. Maximum link distance is 100meters

Configuration DIP Switch:

DIP 1: Port Event Alarm Enable/Disable

DIP 2: Power Event Alarm Enable/Disable

DIP 3: Link Loss Forwarding Enable/Disable

Diagnostic LED:

System: Power (Green) x2 ,Link Loss Forwarding (Red) x1, Alarm (Red) x1

RJ-45 port:

Speed (Green): On (1000Mbps Link), Blinking (100Mbps Link), Off (10Mbps Link or disconnect).

Link/Activity (Green): On (Link), Blinking (Activity)

Full Duplex/Collision (Yellow): On (link at full duplex mode), Blinking (Collision)

SFP port:

Link/Activity (Green): On (Link), Blinking (Activity)

Full Duplex/Collision (Yellow):On (link at full duplex mode), Blinking (Collision)

Power Requirements

System Power: DC 24V (12~48V) with polarity reverse correction and over current protection

Consumption: 8 Watts @ DC 24V(Maximum)

Mechanical

Installation: DIN-Rail mount

Case: Aluminum alloy metal case with grade 31 of ingress protection

Dimension:

120mm(H) x 55mm (W) x108 mm (D) (with DIN rail clip)

Environmental

Operating Temperature: -25 ~70°C

Operating Humidity: 0% ~ 95% (non-condensing)

Storage Temperature: -40 ~ 80°C

Storage Humidity: 0%~ 95% (non-condensing)

Regulatory Approvals

Hi-Pot: AC 1.5KV on port to port and port to power

EMI: FCC Class A, CE/EN55022

EMC immunity interface:

EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11

Safety: CE/EN60950

Shock: IEC60068-2-27

Vibration: IEC60068-2-6

Free Fall: IEC60068-2-32

Ordering Information

JetCon 3401G Industrial Gigabit Ethernet Media Converter

Includes:

- JetCon 3401G
- Quick Installation Guide

Optional Accessories

Gigabit Multi-Mode SFP Transceiver

Gigabit Single-Mode SFP Transceiver

Gigabit BIDI/WDM Single-Mode SFP Transceiver