

JetCon 1302

Industrial 2-port Fast Ethernet to Fiber Media Converter



- Two 10/100 TX ports to One 100FX port media converter
- Supports 1.5KV Hi-PoT isolation protection
- Dual modes for power input, AC18-27V/DC18-32V
- Fault Relay Output for port alarm
- Compact Aluminum case with IP-31 grade protection
- -10~70°C operating temperature for hazardous environment applications

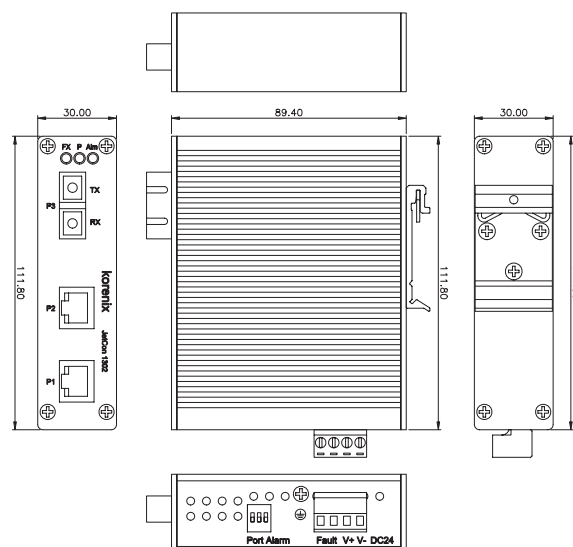


Overview

JetCon 1302 is not only a compact 2-port RJ45 to fiber media converter, but also a slim 3-port switch which is an ideal model that would physically fit in a network environment with limited space. The feature of fault relay alarm aiming to inform you whenever there is any port link down. Just move up the DIP switch, the fault relay alarm will be functioning! Single-mode and Multi-mode fiber optic ports meet your needs for long distance transmission up to 30KM.

When you are ready to install JetCon 1302, you will find out that it can be easily wall mounted and be mounted directly on DIN rail. AC 18V~27V or DC 18V~32V is available for different operating environments. With IP 31 rigid and compact aluminum case, 1.5KV Hi-PoT isolation protection, CE/FCC regulatory approvals, and 5-year global warranty, JetCon 1302 series are your reliable choices for hazardous applications.

Dimensions (Unit –mm)



Specification

Technology

Standard:

IEEE802.3 10Base-T, IEEE802.3u 100Base-TX
IEEE802.3u 100Base-FX, IEEE802.3x flow control

Switch Technology: Store and forward technology and with 3.2Gbps switch bandwidth
Aggregate System Throughput: 1.49Mpps

Interface

Number of Ports: 2 x 10/100 TX with Auto MDI/MDI-X, Auto-Negotiation functions
1 x 100Base-FX

Connectors: 10/100 Base-TX: RJ-45
100Base-FX: Duplex SC
Power/Relay: 4-pin terminal block

Cables:

RJ-45 connector: supports CAT-3, CAT-4, CAT-5 unshielded twisted pair or shielded twisted pair cable. The link distance is maximum 100 meters
SC connector: SC Connector:

Multi-mode fiber: 50/125um or 62.5/125um, max. distance 2KM

Single-mode fiber: 8/125um, 9/125um or 10/125 um, max. distance 30KM

Fiber Transceiver:

JetCon1302-m, Multi-mode: 2KM max. distance

Wave-length: 1310nm

Min Tx Power: -19dBm

Max Tx Power: -14dBm

Min Rx Sensitivity: -30dBm

Link budget: 11dBm

JetCon1302-s, Single-mode: 30KM max. distance

Wave-length: 1310nm

Max Tx Power: -8dBm

Min Tx Power: -15dBm

Min Rx Sensitivity: -34dBm

Link budget: 19dBm

Port Alarm DIP Switch:

DIP 1~3: Enable or disable port link down alarm for copper port 1/2, fiber port 3

On: Enable port link down alarm

Off: Disable port link down alarm

Diagnostic LED: System: Power (green), Fault (red)

RJ-45 port: 100Mbps Link (green on)/Activity (green blinking)

10Mbps Link (yellow on)/Activity (yellow blinking)

Fiber port: Link/Activity (green)

Power Requirements

System Power: 2 pins terminal block for power input

DC 24V (18~32V) with reverse polarity protection

AC 18~27V, 47~63Hz

Power Consumption: 4.8Watts @ DC 24V

Mechanical

Installation: DIN-Rail mount

Casing: IP31 protection, aluminum case

Dimensions:

111.8mm(H) x 30mm (W) x 98.2mm (D) (with DIN rail clip)

111.8mm(H) x 30mm (W) x 89.4mm (D) (without DIN rail clip)

Weight: 374g with package

292g without package

Environmental

Operating Temperature: -10 ~ 70°C

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

Storage Temperature: -40 ~ 80°C

Storage Humidity: 0%~ 95% non-condensing

Regulatory Approvals

EMI: FCC Class A, CE/EN55022 Class A

EMC Immunity Interface: EN61000-4-2: 6KV Contact, 8KV

Air, ESD contact indirect 6kv EN61000-4-3: 10V/m, 80 MHz

- 1 GHz, AM 1 KHz, 80% modulation, 10V/m, 0.9 - 1.8 GHz,

FM 200 Hz, 50% modulation EN61000-4-4: PWR Supply

Lines: +/- 2KV, Communication Lines: +/- 2KV

EN61000-4-5: 2KV on power line (L-N), 4KV on

power line (L-PE, N-PE), 1.2uS Tr/ 50uS Th.

EN61000-4-6: PWR Supply Lines: 10 Vrms, 150 KHz

- 80 MHz; AM 1 KHz, 80% modulation; Communication

Lines: 10 Vrms, 150 KHz - 80 MHz; AM 1 KHz, 80%

modulation; Relay: 10 Vrms, 150 KHz - 80 MHz; AM 1 KHz, 80% modulation

EN61000-4-8: 50Hz, 3A/m

EN61000-4-11: 30% 10 ms, 60% 100 ms, > 95% 5000 ms

Safety: CE/EN60950

Shock: IEC60068-2-27 shock: 50G, 11ms, 4G, +/- X, +/- Y, +/- Z

Free Fall: IEC60068-2-32 free fall: 90 cm, 1 corner, 3 edges, 6 faces

Vibration: IEC60068-2-6 vibration: 1 mm, 2 Hz - 13.2 Hz,

90 min.; 0.7g, 13.2 Hz - 100 Hz, 90 min.; 3.5 mm, 3 Hz - 9

Hz, 10 cycles,

1 octave/min.; 1G, 9 Hz - 150 Hz, 10 cycles, 1 octave/min

MTBF: 632,171 Hours, MIL-HDBK-217F GB standard

Warranty: 5 years

Ordering Information

JetCon 1302-m Industrial 2-port Fast Ethernet to Fiber Media Converter, SC, Multi-mode/2KM

Includes:

- JetCon 1302-m
- Quick Installation Guide

JetCon 1302-s Industrial 2-port Fast Ethernet to Fiber Media Converter, SC, Single-mode/30KM

Includes:

- JetCon 1302-s
- Quick Installation Guide