

# 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
- Supports Auto MDI/MDI-X, Auto Negotiation
- Supports Multi-mode 2KM, Single-mode 30KM
- 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

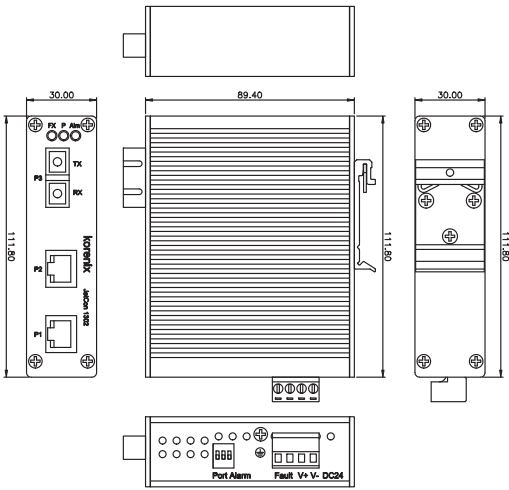


### Overview

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 aims 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)



- Industrial PoE Switch
- IP67/68 Ethernet Switch
- Rackmount Managed Switch
- Gigabit Switch
- Redundant Switch
- Entry-Level Switch
- Networking Computer
- Communication Computer
- Ethernet I/O Server
- Serial Device Server
- Media Converter**
- Multiport Serial Card
- SFP Module
- Din Rail Power Supply

## 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:

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

Link Distance: 2KM (Max.)

Wave-length: 1310nm

Min Tx Power: -20dBm

Max Tx Power: -14dBm

Min Rx Sensitivity: 0dBm

Max Rx Sensitivity: -31dBm

Link budget: 11dBm

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

Link Distance: 30KM (Max.)

Wave-length: 1310nm

Min Tx Power: -15dBm

Max Tx Power: -8dBm

Min Rx Sensitivity: 0dBm

Max 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, 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

**Free Fall:** IEC60068-2-32

**Vibration:** IEC60068-2-6

**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**

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

Includes:

- JetCon 1302-m / 1302-s
- Quick Installation Guide