# JETCON

## JetCon 2301
### Industrial Ethernet to Fiber Rail Converter

- Supports both half-and full-duplex, with auto-negotiation
- Built-in Link Lose Forwarding Technology
- Redundant power inputs
- Robust aluminum case
- DIN-Rail or wall mountable
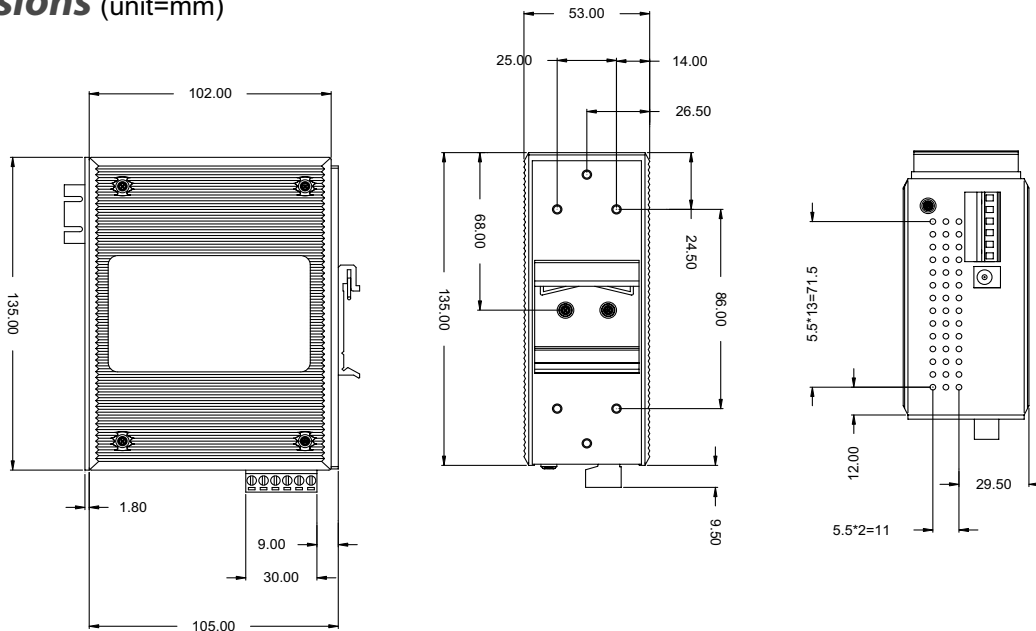- Auto MDI/MDI-X for TX port

CE FC

## Overview

The JetCon 2301 Media Converter is a 10/100Base-TX to Fast Ethernet 100Base-FX fiber converter. JetCon 2301 auto-adapts to the highest level of performance supported by the device connected to the RJ45 port. The fiber port of JetCon 2301 operates at 1310 nm and uses a SC connector. Multi-mode models can support distance up to 2 km and single-mode models can support distance up to 30 km. The built-in Link Lose Forwarding technology and relay output alarm promptly notify users if port break or power failure occur. The robust aluminum case offers an IP30 standard protection plus a dual redundant power inputs with reverse polarity protection.

## Dimensions (unit=mm)

# Industrial Serial/Ethernet/Fiber Media Converter

## Specifications

### Technology

**Standard:**

IEEE802.3 10BASE-T

IEEE802.3u 100BASE-TX/100BASE-FX

IEEE802.3x Flow Control and Back pressure

**Processing:** Store and Forward switching architecture

**Link Lose Forwarding:**

Tx Fiber-If Tx port link breaks down, JetCon 2301

will force the fiber port to disconnect.

Fiber Tx-If fiber port link breaks down, JetCon 2301

will force the Tx port to disconnect.

### Interface

**Number of Ports:** 1 x 10/100 Base-Tx, 1 x 100 Base-Fx

**Connector:**

Fiber: SC(Multi-Mode), SC(Single-mode,30km)

RJ-45 Socket: CAT-3/5 (10/100Mbps) Twisted Pair cable

Auto MDI/MDI-X and Auto-Negotiation Function Supported

**Fiber Core:**

Multi Mode (62.5/125um, 50/125um)

Single Mode (8/125um,10/125um)

**Wavelength:** 1310nm

**Fiber Distance:**

Multi Mode Fiber 2km

Single Mode Fiber 30km

**DIP Switch:**

DIP Switch 4

OFF for Auto-Negotiation,

ON for 100Base-TX Full-duplex mode

DIP Switch 3

OFF for 100Base-FX Full-mode,

ON for100Base-FX Half-mode

DIP Switch 2

OFF for disabling LLF (Link Lose Forwarding)

ON for enabling LLF (Link Lose Forwarding)

DIP Switch 1

OFF for disabling Port Alarm,

ON for enabling Port Alarm

### LED Indicators:

Power (Green), Power1 (Green), Power2 (Green), Fault (Orange)

Fiber: Link/Activity (Green), Half/Full Duplex (Green)

TX: 10/100 (Green), Link (Green), Full Duplex (Orange)

Reverse Polarity Protection: Present

Overload Current Protection: Present

**Alarm:** Relay output for port break and power failure

### Power Requirements

**Power Supplly:** 24 VDC (12 to 48 VDC)

Reverse Polarity Protection: Present

**Power Consumption:** 4.6W

### Mechanical

**Installation:** DIN-Rail Kit, or wall mounting ears for 3-way installation

**Casing:** IP-30 protection, aluminum case

**Dimensions:** 54 mm (W) x 135 mm (H) x 105mm (D)

### Environmental

**Operating Temperature:** -10 to 70˚C (14 to 158˚F)

**Operating Humidity:** 5% to 95% (Non-condensing)

**Storage Temperature:** -40 to 85˚C (-40 to 185˚F)

### Regulatory Approvals

**EMI:** FCC Class A, EN55022 Class A

**EMC:**

EN61000-4-2, EN61000-4-3, EN61000-4-4

EN61000-4-5, EN61000-4-6, EN61000-4-8, EN610004-11

**Safety:** UL, cUL, CE/EN60950

**Shock:** IEC 60068-2-27

**Free fall:** IEC 60068-2-32

**Vibration:** IEC 60068-2-6

**MTBF:**

225,855 hours * MIL-HDBK-217F (MILITARY HANDBOOK) standard

**Warranty:** Global 5 years

## Ordering Information

**JetCon 2301-m Industrial Ethernet to Multi Mode Fiber Rail Converter**

Includes:

- Ethernet to Fiber Rail Converter
- Quick Installation Guide
- Documentation CD-ROM
- Wall mounting plate and six screws

**JetCon 2301-s Industrial Ethernet to Single Mode Fiber Rail Converter**

Includes:

- Ethernet to Fiber Rail Converter
- Quick Installation Guide
- Documentation CD-ROM
- Wall mounting plate and six screws