JetCon 1301 Series Industrial Media Converter
Quick Installation Guide V1.4

Overview

JetCon 1301 Industrial Media Converter, conforming IEEE 802.3 and 802.3u standard, supports 1 10/100Base TX plus one 100FX Fast Ethernet Fiber port. JetCon 1301 adopts slim and compact industrial design to save rail space of compact system requirement. In order to survive under harsh environment, JetCon 1301 chooses industrial-grade aluminum case with IP30 standard protection.The 4-Pin DIP switch can configure JetCon 1301 to operate in switch mode or pure converter mode. The JetCon1301 "-w" model extends support for wide operation temperature. To extend the link distance and network infrastructure, JetCon1301-s equips with a transceiver for large power budget for single mode fiber to reach 30KM link distance. JetCon1301 is recommended to be powered by DC24V (18~32V) from the 2-pin terminal block. For JetCon1301-48V, it is recommended to be powered by DC48V (36~60V). The power input provides polarity reverse protection to avoid system damage.

Package Check List

- JetCon 1301 Industrial Media Converter
- Quick Installation Guide

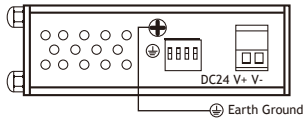
Installation

Mount the unit

Din-Rail mount: Mount the din-rail clip screwed on the rear of JetCon 1301 on the DIN rail

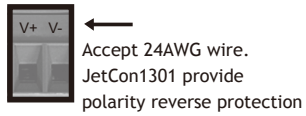
Grounding JetCon 1301

There is one grounding screw on the bottom side of JetCon1301. Connect the frame grounding of JetCon1301 to the grounding surface to ensure safety and prevent noise.



Wiring the Power Inputs

1. Insert the positive and negative wires into the V+ and V- contact on the terminal block connector.
2. Tighten the wire-clamp screws to prevent the power wires from being loosened.



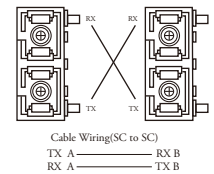
Notes: The recommended working voltage is DC24V (DC18~32V)

The recommended working voltage for JetCon1301-48V is DC48V (DC36~60V)

Connecting to Network

1. Connecting the Ethernet Ports: Connect one end of an Ethernet cable into the UTP port of JetCon 1301, while the other end is connected to the attached networking device. UTP port support auto MDI/MDIX function. The LNK / ACT LED will turn on and flash to indicate RJ-45 port link and the packets received and transmitted from RJ-45.

2. Connecting the Fiber Port: Connect the fiber port on your JetCon 1301 to another Fiber Ethernet device, by following the figure below. Wrong connection or fiber cable type will cause the fiber port not working properly.



ATTENTION

This is a Class 1 Laser/LED product.
Don't look into the Laser/LED Beam.

3. For different link distance, the JetCon1301 provides JetCon1301-m" for multi-mode fiber and "JetCon1301-s" for single-mode fiber.The table below illustrates fiber transceiver specification.

Modul	Fiber (um)	Connecter	Wavelength(um)	TXPwr (Min)	TxPwr (Max)	RxPwr (Min)	RxPwr (Max)	LinkBudg(dBm)	Distance(km)
JetCon 1301-m	Multi-Mode 50-62.5/125	SC	1310nm	-20dBm	-14dBm	-31dBm	0dBm	11dBm	2KM
JetCon 1301-s	Single-Mode 8-10/125	SC	1310nm	-15dBm	-8dBm	-34dBm	8dBm	19dBm	30km

TxPwr(Min):Minimum Launch Power TxPwr(Max):Maximum Launch Power

RxPwr(Min):Maximum Receive Sensitivity RxPwr(Max):Minimum Receive Sensitivity

Link Budget=Minimum Launch Power –Maximum Receive Sensitivity

Note: To ensure your fiber converter can transmit/receive data between the 2 nodes, the attenuation of the optical fiber cable should be smaller than the fiber converter's Link Budget.

DIP Switch Settings for Alarm Relay Output

Pin Nr. #	Status	Description	Alarm Switch
Pin1	ON	Enable Link Loss Forwarding function.	
	Off	Disable Link Loss Forwarding function (Default).	
Pin2	ON	Set RJ-45 in 100Mbps Full Duplex mode.	
	Off	Set RJ-45 in Auto-Negotiation mode.(Default).	
Pin3	ON	Set Fiber port in Half duplex mode.	
	Off	Set Fiber port in Full duplex mode.(Default).	
Pin4	ON	Set JetCon1301 in pure converter mode.	
	Off	Set JetCon1301 in Switch converter mode.(Default).	

Note: After adjust the DIP-switch, please reboot the unit to activate the new settings.

Note: The Link Loss Forwarding function only works when two JetCon 1301 devices are connected via fiber.

Support

5 Years Warranty

Each of Korenix's product line is designed, produced, and tested with high industrial standard. Korenix warrants that the Product(s) shall be free from defects in materials and workmanship for a period of five (5) years from the date of delivery provided that the Product was properly installed and used.

This warranty is voided if defects, malfunctions or failures of the warranted Product are caused by damage resulting from force measure (such as floods, fire, etc.), other external forces such as power disturbances, over spec power input, or incorrect cabling; or the warranted Product is misused, abused, or operated, altered and repaired in an unauthorized or improper way.

Attention! To avoid system damage caused by sparks, please DO NOT plug in power connector when power is on.

The product is in compliance with Directive 2002/95/EC and 2011/65/EU of the European Parliament and of the Council of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronics equipment(RoHS Directives & RoHS 2.0)

Korenix Customer Service

KoreCARE is Korenix Technology's global service center, where our professional staffs are ready to solve your problems at any time Korenix global service center's e-mail is KoreCARE@korenix.com.

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