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About the Quick Installation Guide

This Quick Installation Guide is intended to guide professional installer to install and configure the JetCon 2301S. It covers procedures to assist you in avoiding unforeseen problems.

Introduction

JetCon 2301S is a single port Fast Ethernet to Fiber media converter, supporting 4 types of forwarding modes – Store and Forward, Modified Cut-through, Pure Converter and Converter with auto-change modes. JetCon 2301S with IP31 grade enclosure and 1.5KV Hi-Pot isolation protection to operate in harsh environments with severe electromagnetic interference and -40~70°C.

Package Check List

- JetCon 2301S Industrial Media Converter
- Quick Installation Guide

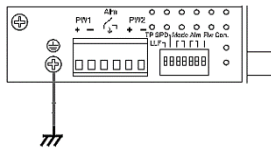
Installation

Mount the unit

Din-Rail mount: Mount the din-rail clip on the rear of JetCon 25301 on the DIN rail. For information about the DIN Rail installation, please refer to user's manual.

Grounding JetCon 2301S

There is one grounding screw on the bottom side of JetCon 2301S. Connect the frame grounding of JetCon 2301S to the grounding surface to ensure safety and prevent noise for communication interference.



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 loosened.

Note:

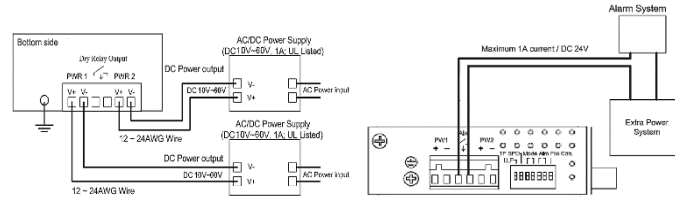
The recommended working voltage is DC 24V. (Input range: DC10~ 60 V)

Wiring the Relay Output

The relay output contacts are in the middle of the terminal block connector as shown below. By inserting the wires and settings the DIP switch of the respective alarm function to “ON”, relay output alarm will detect port or power fault, and form a short circuit. The alarm relay output is “Normal Open”. For more information, please refer Manual chapter for more detail.

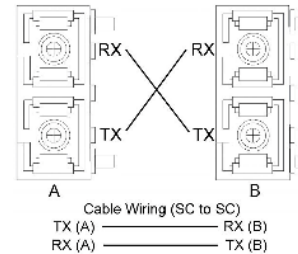
Note:

The relay contact only support 1A current, DC 24V. It does not recommend apply higher voltage and current that over this specification.



Connecting to Network

1. Connecting the Ethernet Port: Connect one end of an Ethernet cable into the UTP port of JetCon 2301S, 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 2301S to another Fiber Ethernet device, by following the figure below. Wrong connection or fiber cable type will cause the fiber port not working properly.
3. For different link distance, the JetCon 2301S provides JetCon 2301S-mw” for multi-mode fiber and “JetCon 2301S-sw” for single-mode fiber.
4. The table below illustrates fiber transceiver specification.



Model	Fiber (um)	Connector	Wavelength (um)	TXPwr (min)	TxPwr (Max)	RxPwr (Min)	RxPwr (Max)	LinkBudg (dBm)	Distance (km)
JetCon 2301S-mw	Multi-mode 50~62.5/125	SC	1310nm	-20dBm	-14dBm	-31dBm	0dBm	11dBm	2km
JetCon 2301S-sw	Single-mode 8~10/125	SC	1310nm	-15dBm	-8dBm	-34dBm	-8dBm	19dBm	30km

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.

Attention:

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

DIP Switch Setting

Pin No. #	Status	Description
DIP 1	On	Enable Link Loose Forwarding function.
	Off	Disable Link Loose Forwarding function (Default)
DIP 2	On	Set TX port in Force_100F
	Off	Set TX port in Auto-Negotiation mode.(Default)
DIP 3	Off	Store and Forward forwarding mode (default mode)
Off	On	Pure Converter forwarding mode
On	Off	Modify Cut-Through forwarding mode
On	On	Converter mode with Auto-Change forwarding mode
DIP 5	On	Enable power alarm
	Off	Disable power alarm (default)
DIP 6	On	Enable port alarm
	Off	Disable port alarm (default)
DIP 7	On	Disable Flow control
	Off	Enable Flow control (default)



Note:

After adjusting the DIP-switch, please reboot the unit to activate the new settings.

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

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关于快速安装指南

本“快速安装指南”旨在指导专业安装人员安装和配置JetCon 2301S。它涵盖了帮助您避免意外问题的程序。

常规

警告: 此符号表示您必须遵守的警告

注意: 此符号表示您必须注意的重要注意事项。

介绍

JetCon 2301S 是单端口快速以太网到光纤介质转换器，支持4种转发模式 - 存储转发、快速发送模式、纯转换器和自动更改模式转换器。JetCon 2301S具有冗余电源输入，6孔可拆卸端子，具有宽范围DC10~60V。JetCon 2301S的光纤端口也支持单模或多模，最高高达30KM的延长距离传输。

打开包装，检查下列配件

- JetCon 2301S工业媒体转换器*1
- 快速安装指南*1

安装

Din-Rail支架：

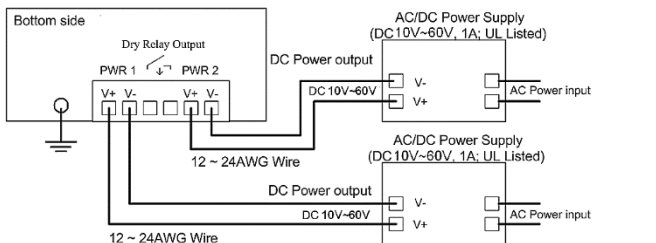
将JetCon 25301背面的Din-rail夹子安装在DIN导轨。有关DIN导轨安装的信息请参考用户手册。

JetCon 2301S 接地:

JetCon 25301底部有一个接地螺丝。将JetCon 2301S连接框架接地以保证安全，防止噪音用于通信干扰。

输入电源接线:

- 1.将正极和负极线插入端子块连接器上的V+和V-触点。(如下图)
- 2.拧紧电线夹螺钉，防止电源线松动。



注意:

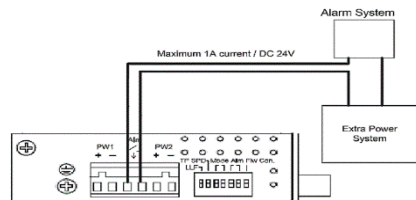
推荐的输入电压为DC 24V。(可输入范围: DC10~60V)

接线输出

继电器输出触点位于连接器端子中间，如下所示。透过将警报功能的DIP开关插入到“ON”，继电器输出报警将检测端口或电源故障，并形成短路。有关更多信息，请参阅手册章节了解更详细信息。

注意:

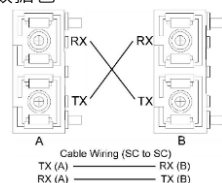
继电器触点仅支持1A电流，DC 24V。不建议使用超过本规范的更高的电压和电流。



连接到网络

1. 连接以太网端口：将以太网电缆的一端连接到JetCon 2301S的UTP端口，另一端连接到所连接的网络设备。UTP端口支持自动MDI/MDIX功能。LNK / ACT LED将亮起并闪烁，表示RJ-45端口链路和从RJ-45接收和发送的数据包。

2. 连接光纤端口：将JetCon 2301S上的光纤端口连接到另一个光纤以太网设备，如图所示。连接错误或光缆类型会导致光纤端口工作不正常。



3. 对于不同的链距离，需用不同的设备，JetCon 2301S为多模式提供JetCon 2301S-mw“光纤和”JetCon 2301S-sw”用于单模纤维。
4. 下表列出了光纤收发器规范。

Model	光纤 (um)	Connector	Wavelength (um)	TXPwr (min)	TxPwr (Max)	RxPwr (Min)	RxPwr (Max)	LinkBudg (dBm)	距离 (km)
JetCon 2301S-mw	多模 50~62.5/125	SC	1310nm	-20dBm	-14dBm	-31dBm	0dBm	11dBm	2km
JetCon 2301S-sw	单模 8~10/125	SC	1310nm	-15dBm	-8dBm	-34dBm	-8dBm	19dBm	30km

注意:

1. 为确保光纤转换器能够在2个节点之间传输/接收数据，光纤电缆的衰减应小于光纤转换器的链路预算。
2. 这是1类激光/LED产品。不要盯着激光/LED光束。

DIP拨码开关设定

注意:

1. 调整DIP开关后，请重新启动本机以激活新设置
2. 设为100Full时，另一方设备建议设为自适应 Auto

Pin No. #	状态	描述
DIP 1	On	啟動 Link Loose Forwarding 功能
	Off	關閉 Link Loose Forwarding 功能(默认)
DIP 2	On	設定 TX 為100Full
	Off	設定 TX 為自适应模式 (默认)
DIP 3	Off	存储转发模式(默认模式)
	On	纯转发模式。
DIP 4	On	Modify Cut-Through 转发模式
	On	转换 Auto-Change 模式
DIP 5	On	启动电源报警
	Off	关闭电源报警 (默认)
DIP 6	On	启动端口报警
	Off	关闭端口报警 (默认)
DIP 7	On	关闭流控制
	Off	启动流控制(默认)



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注意! 请勿于电源开启时插拔接线端子，避免产生火花造成系统损坏。

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Korenix全球服务中心 EMAIL: KoreCARE@korenix.com

业务服务: sales@korenix.com.cn

官网: www.korenix.com.cn

Korenix Technology Co., Ltd.
(A Beijer Electronics Group Company)

Tel:+886-2-89111000

Fax:+886-2-29123328

Business service:sales@korenix.com

Customer service: koreCARE@korenix.com

www.korenix.com

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Patent No. (Taiwan):

- Granted Invention: I 313547
- Granted Invention: I 321415
- Granted Invention: I 344766
- Granted Invention: I 346480
- Granted Invention: I 356616
- Granted Invention: I 364684
- Granted Invention: I 376118
- Granted Invention: I 393317
- Granted Invention: I 398066
- Granted Invention: I 398125
- Granted Invention: I 459757
- Utility Model: M 339841
- Utility Model: M 339840