JetCon 1900 Industrial Optical Bypass Switch
Quick Installation Guide V1.0

Overview

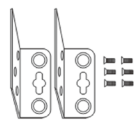
The JetCon 1900 Optical Bypass Switch is an ideal of optical bypass solution for optical-node in a daisy-chain or ring network infrastructure. In the traditional optical network topology, the optical path may break to several segments that caused by the node system crash or node power-down. With the bypass and recovery technology, the JetCon 1900 will bridge both of previous and next nodes immediately when node-down occurred. It prevents and saves the communication from the danger of node-crash. It is commonly used in some of major optical network, like railway communication system, factory automation, power substation where can't bear any communication interruption.

This QIG will introduce how to install and configure the JetCon 1900. About the product specification, please refer to JetCon 1900 data sheet which can be downloaded from Korenix Web site: www.korenix.com.

Package Check List

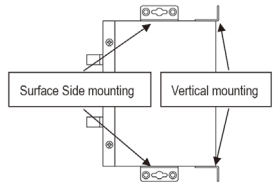
- JetCon 1900
- Quick Installation Guide
- Wall Mounting kits





Installation

Mount the unit



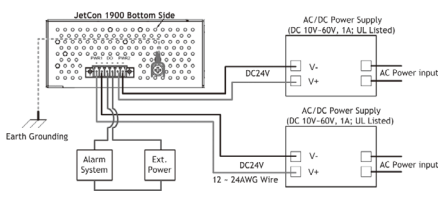
Din-Rail mount: Uses DIN Rail Clip to mounting on EN50022 DIN Rail.

Vertical Wall Mounting: Uses wall mounting plate to install device on the cabinet wall vertically if there is no DIN Rail.

Surface Side Mounting: Uses wall mounting plate to install device by side surface mounting to save space for the optical fiber installation.

Wiring Power input, Relay Output and Chassis/Earth Grounding

There is one 6-pin removable terminal bock connector on the bottom side of JetCon 1900. It includes 2 redundant power input, and Dry Relay Alarm output. Following diagram shows the connection of power input, dry relay output and also the earth grounding.



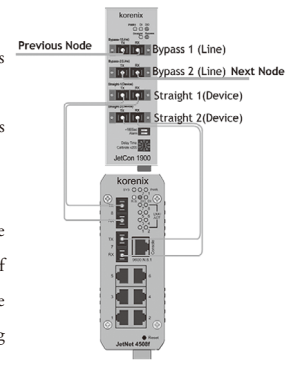
1. System recommended operating voltage is DC 24V, the voltage range is from DC 10V to DC 60V. The DC power source is recommended to uses UL listed AC/DC switching power supply.

2. The contactor ability of Dry Relay output is 1A current in 30V DC external alarm power source.

3. To provide better noise immunity, please connect the system grounding screw with Earth Grounding System.

Connect the Optical Fiber to Line and Device

The JetCon 1900 support 4 Duplex SC connectors for Bypass/Line and Straight/Device connection.



Bypass/Line port: connected to the fiber cables coming from previous and next stations.

Straight/Device port: connected to the local device's fiber redundant/ring ports.

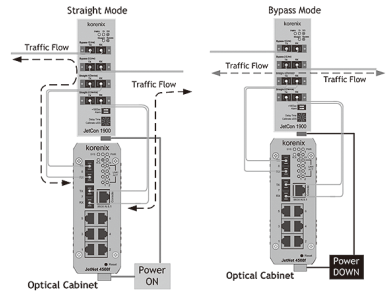
Note:

(1) the connection of optical fiber interface should be TX connected to RX. (2) Ensure the strength of optical signal that from previous and next nodes can be received by each other when JetCon 1900 is working at Bypass mode.

(2) Bypass-1 (Line) connects to Staright-1 (device) internally, Bypass-2 (Line) connects to Straighe-2 (device) internally.

Optical Signal /Traffic Path - Straight Mode

In normal status (stable power supply), the optical signal from previous Node would be transferred to local device through Bypass-1 and Straight-1 ports, the local deice then forward optical signal to next Node through Straight-2 and Bypass-2 ports (refers to Straight mode diagram).



Optical Signal /Traffic Path - Bypass Mode

In abnormal status (Power off), the internal optical path switch will switch the optical path and connects both nodes of previous and next (refers to Bypass mode diagram).

Configure the Restoration Time Delay

The restoration Time delay is configured by Rotary Switch and DIP-Switch. The delay time can be set from 0 to 360 seconds, and the system will count down the delay time then switch optical path to Straight mode.

Rotary Switch (0~9)	DIP Switch (+ 180 Sec)	Restoration Delay Time
(1~9) x 20 Sec	Off (Default)	(1~9) x 20 Sec
(1~9) x 20 Sec	On (+ 180Sec)	(1~9) x 20 Sec + 180 Sec

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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