



JetCon 3401G Industrial Gigabit Ethernet Media Converter Quick Installation Guide V1.2

Overview

The JetCon 3401G Industrial Gigabit Ethernet Converter, conforming IEEE 802.3 10Base-T, 802.3u 100Base-TX and 1000Base-T/SX/LX standard, supports RJ-45 copper to Gigabit fiber conversion using store and forward technology. The JetCon 3401G adopts rugged metal case design to operate in harsh environments (-25~70°C); It also provides IP-31 standard protection. It features Link Loss Forwarding to raise an alarm when a remote fault occurs and also adopts one relay output to alarm users if a port link fails or if the power fails. Alarms can be enabled/ disabled by dip switch. The fiber port supports SFP socket for several of SFP transceiver to achieve different link distance.

JetCon 3401G is recommended to be powered by DC 24V with 12~48V range from the 6-pin removable terminal block.

Package Check List

- ▶ JetCon 3401G
- ▶ Quick Installation Guide
- ▶ CD User Manual



Installation

Mount the unit

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

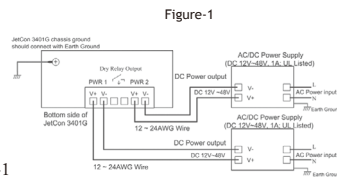
JetCon 3401G on the DIN rail.

For information about the DIN Rail installation, please refer to user's manual.

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 DC wires from being loosened. See Figure-1



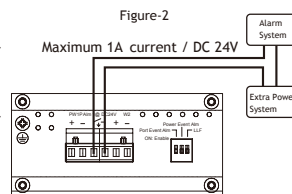
Notes: The recommended working voltage is DC24V (DC12~ 48V)

Wiring the Relay Output

The relay output alarm contacts are in the middle of the terminal block connector as shown in figure-3.

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

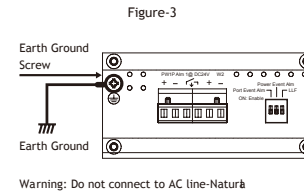
short circuit. The alarm relay output is "Normal Open". See, Figure -2. For more information, please refer to the chapter 2-4 and 2-5 of user's manual for more detail information.



Wiring the Earth Ground

In an industrial environment, there might be devices that generate electromagnetic noise, such as AC motors, electric welding machine, or a power generator. These devices will generate electric noise or surges that might disturb communications.

To prevent those noises, the device should be well earthed. In the Figure- 3 shows how to make connection.



Connecting to Network

1. Connecting the Ethernet Ports: Connect one end of an Ethernet cable into the UTP port of JetCon 3401G, while the other end is connected to the attached networking device. The UTP ports support auto MDI/MDIX function. The Speed LED will turn on for 1000M link and blinking for 100Mbps link; the LNK/ACT LED will turn on for link up and blinking for packet transmits and receives.

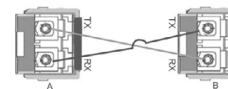
2. Install Gigabit SFP transceiver and make the connection: Connect the fiber port on your JetCon 3401G to another Gigabit Fiber Ethernet device, by following the figure below. Wrong connection will cause the fiber port not working properly.

The SFP Fiber port supports 2 LEDs for link/activity and full duplex/collision; once the gigabit fiber port is link up, the link LED will be trigger to "ON".

ATTENTION



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



DIP Switch Settings for Alarm Relay Output and Link Loss Forwarding

Pin No. #	Status	Description
# 1 Port Event Alarm	ON	To enable port link down alarm at this port.
	Off	To disable port link down alarm at this port.
#2 Power Event Alarm	ON	To enable power failure alarm.
	Off	To disable power failure alarm.
#3 LLF (Link Loss Forwarding)	ON	To enable Link Loss Forwarding function at both of fiber and copper port. Once either one of copper or fiber port is disconnected, the JetCon 3401G will turn-off the other port to alert the end of attached device forcibly. Note: Once the LLF is active and the cable event is recovered, the LLF DIP-switch must be re-triggered to arouse this function.
	Off	To disable Link Loss Forwarding function.

导言

JetCon 3401G工业级千兆以太网信号转换器，符合IEEE 802.3 10Base-T，802.3u 100Base-TX和1000Base-T/SX/LX标准，采用存储转发技术将RJ-45以太网口转为千兆光口。JetCon 3401G采用坚固的铝合金外壳设计，支持-25~70°C宽温工作环境；并满足IP-31工业防护标准。它支持LLF（Link Loss Forwarding）技术可检测远端连线故障，并配备一路继电器报警输出为用户提供断线和断电报警。用户可通过DIP拨码开关启动/关闭该报警功能。光口是SFP插槽支持多种SFP光纤收发器，支持不同的传输距离。

建议采用稳定的DC24V电源为JetCon 3401G供电，同时也支持12~48V供电范围，电源接口为6-pin可拆卸接线槽。

产品清单

- JetCon 3401G
- 快速安装向导
- 用户手册光盘



安装

安装配件

导轨安装: 用螺丝将导轨夹固定在JetCon 3401G机身背面，然后将导轨夹卡上导轨。

更多导轨安装详情，请参看用户操作手册。

连接电源

- 将电源的正负极导线分别插入机身底部电源接线槽的V+和V-接口。
- 将线夹拧紧，防止DC电源线因振动脱落。参看图-1。

备注: 建议工作电压DC24V (DC12~48V)

连接继电器报警

继电器报警输出连接点是底部接线槽中间的一对接脚，如图-3所示。连接导线，并将对应端口的DIP拨码开关置“ON”，继电器报警功能便可以检测到端口断线或电源断连，然后形成回路发出报警。正常情况下，继电器报警线路是开路状态。参看图-2。更多详情，请参考用户手册chapter 2-4, 2-5。

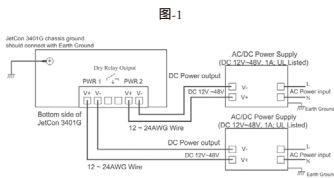


图-1

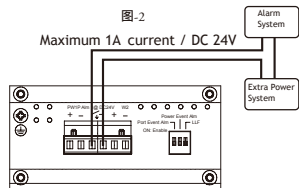


图-2

连接地线

在工业现场环境中，可能会有大量产生电磁干扰的设备存在，如交流电动机、电焊机、发电机等。这些设备产生的电磁干扰和浪涌干扰均可能干扰到正常通讯。为防止干扰影响，请将设备正确接地。未进行设备接地，导致之功能损害，将不列入质保范围，维修将另行收费。图3提供正确连线示例，请参考。

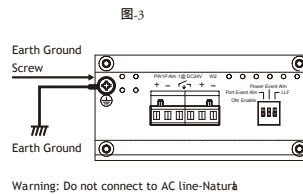


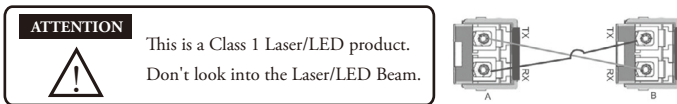
图-3

网络连接

- 以太网连接:** 将UTP双绞线的一端连接JetCon 3401G以太网口，另一端连接网络设备。UTP端口支持自适应MDI/MDIX。当为1000M连线时，速率LED指示灯会亮起，当为100M连线时，指示灯会闪烁；LNK/ACT LED指示灯亮起表示端口已经连线，信号灯闪烁表示该端口正在收发数据。

- 安装千兆SFP光纤收发器模块并连线:** 按照下图提示，将JetCon 3401G的光口连接到另一个设备的千兆光口。错误的连线会导致光口无法工作。

SFP光口有2个LED指示灯，分别为link/activity和full duplex/collision；当千兆光口连通时，Link指示灯会亮起。



DIP拨码开关设定继电器报警和LLF功能

Pin No. #	状态	描述
#1 端口报警	ON	启动该端口的断线报警功能
	Off	关闭该端口的断线报警功能
#2 电源报警	ON	启动断电报警功能
	Off	关闭断电报警功能
#3 LLF (Link Loss Forwarding)	ON	启动光口和电口的LLF功能 一旦光口或电口任一端口断连，JetCon 3401G会强制性关闭另一端口以通知下连设备线路已经中断。 备注: 当LLF为启动状态而将断开的线路恢复，必须重置LLF DIP拨码开关唤醒该功能。
	Off	关闭LLF功能

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注意! 请勿于电源开启时插拔接线端子，以避免产生火花造成系统损坏。

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