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A Beijer Electronics Group Company

JetNet 5020G Industrial 16 FE plus 4 GbE/SFP Ethernet Switch
Quick Installation Guide V1.0

Overview

JetNet 5020G is a high port density Ethernet Switch supports 16 ports Fast Ethernet, and 4 ports Gigabit Ethernet in RJ-45 or SFP for fiber connection. It is designed for field site data convergence to backbone network and up to control data center. The highly heavy industrial Electric-Magnetic Compatibility level, wide operating temperature and voltage provides excellent environmental tolerance to bear the applications which are installed in out -door or the environment with high noise interference, such as factory, railway track-site or Intelligent Traffic Control System (I.T.C.S.). It also adopts comprehensive network control protocols to enhance network transport performance. with those brilliant system design and network features, the JetNet 5020G will be the best network transmission device for your industrial Ethernet Switch solution.
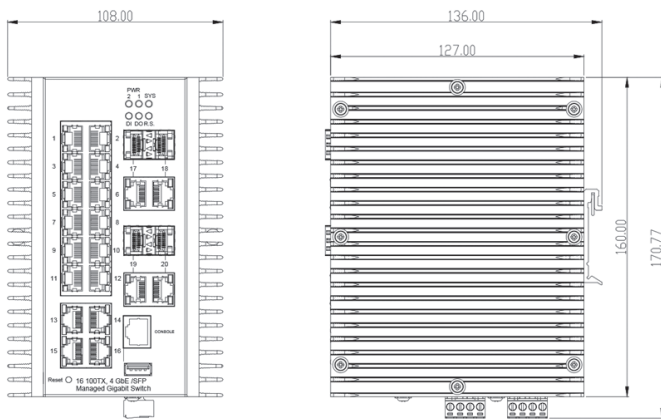
Package Check List

▸ JetNet 5020G
▸ DIN Mounting kit
▸ DB-9 to RJ-45 Console Cable
▸ Quick Installation Guide

Installation

Interface Introduction
JetNet 5020G is a DIN Rail Managed Ethernet Switch supports 16 ports Fast Ethernet, and 4 ports Gigabit Ethernet in RJ-45 or SFP for fiber connection.


Mounting the unit
Mount the DIN Rail clip on the rear of JetNet 5020G on the DIN Rail.

Wiring the Power Inputs & Earth Grounding

1. Insert the positive and negative wires into the V+ and V- contact on the terminal block connector.
2. Connect the Chassis Grounding to Earth Ground system to obtain electromagnetic immunity to resist lighting, electro static discharge and electric fast transient.
3. Tighten the wire-clamp screws to prevent the power wires from being loosened.
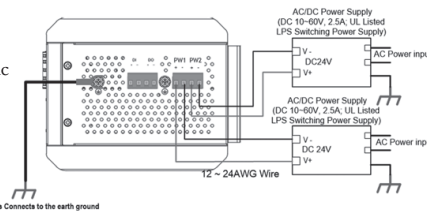
Notes: The recommended working voltage is DC 24V. Use the UL Listed LPS Power supply with output Rating 10~60V VDC, minimum 2.5A currents.

Wiring the Relay Output

The relay output contacts are in the bottom side. The relay output (DO) is controlled by the pre-defined operating rules. To activate relay output function, please refer to the User's Manual for more relay output management information.

Digital Output Wiring simulate Diagram
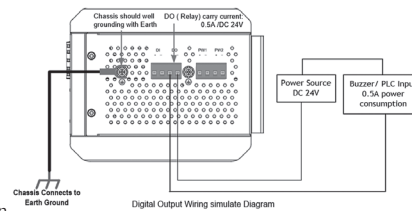
Notes: The relay contact only supports 0.5 A current, DC 24V. It is not recommended to apply voltage and current higher than the specifications.

Wiring the Digital Input

The Digital Input (DI) contacts are in the bottom. It accepts one external DC type signal input and can be configured to send alert message through Ethernet when the signal is changed. The signal may trigger and generated by external power switch, like as door open trigger switch for control cabinet.

Digital Input Wiring Simulate Diagram

Note: the DI accepts DC type signal and supports isolated input circuit with Digital High Level input DC 11V~30V and Digital Low Level input DC 0V~10V. Do not apply voltage higher than the specification; it may cause internal circuit damage or a wrong action of DI.

Connecting the Surge/Lighting protection

The surge protection activate screw located on the bottom side that nearby the power and DI/DO connector. Always tighten the screw and ensure the Chassis-Grounding screw is connected with Earth-Ground well.

Note: 1. Ensure the Surge/Lighting is well connecting with Chassis Grounding.
2. Remove the Surge/Lighting Screw before perform insulation/Hi-pot testing.
3. Never install or work on/with the equipment or the cabling during the period of its lightning activity.
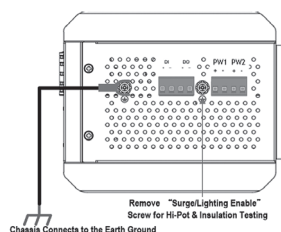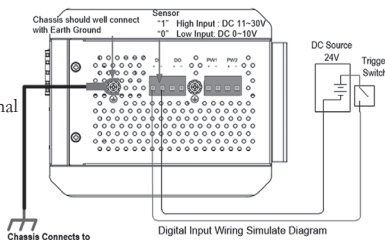
Device Management

You can configure JetNet 5020G via the RS-232 console with the attached console cable. Or you can remotely manage the switch via network. You can choose Telnet/SSH, Web/HTTPS management.

Preparation for console management
Attach the RS-232 DB9 connector to your PC's COM port. Connect the RJ-45 connector to the console port of the JetNet Switch.
1. Go to Start ► Program ► Accessories ► Communication ► Hyper Terminal
2. Give a name to the new console connection.
3. Choose the COM name and select the correct serial settings. The serial port settings are as below: Baud Rate:115200/Parity: None/Data Bit: 8/Stop Bit: 1
4. After connected, you will see the Switch login request. Type the username and password and then you can login. The default username is "admin", password is "admin".
5. Follow the manual to configure the software features.

Preparation for Web management
1. Launch the web browser on the PC.
2. Type http://JetNet Managed Switch_IP_Address (The default IP address is 192.168.10.1.), then press Enter.
3. The login screen will appear next. Type in the user name and password and click "OK" button. The default user name and password is admin/admin.
4. At the left column of the web management interface are the software features, where ring column will list the available settings.

Support

5 Years Warranty
Each of Korenix's product 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
KorenixCARE is Korenix Technology's global service center, where our professional staffs are ready to answer your questions at any time.
Email address of Korenix Global Service Center : KoreCARE@korenix.com

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JetNet 5020G工业级16百兆, 4千兆管理型以太网络交换机
快速安装指南V1.0

导言

JetNet 5020G是一款高密度端口的以太网交换机，支持16端口快速以太网和4个千兆以太网支持RJ-45或SFP的电口与光口共模设计。

JetNet 5020G是专为户外现场数据汇聚上联到骨干网及控制数据中心所设计的一款专用交换机，他具备重工业高端电磁兼容水平，具有较宽的工作温度和电压操作范围，良好的环境耐受能力使其能够担负工作在高噪声干扰环境，如工厂、铁路轨道边通信、智能交通控制系统（I.T.C.S.）。它还采用了全面的网络控制协议，以提高网络传输的性能。有这些丰富的系统硬件设计和网络传输通信协议，JetNet 5020G将会是您的工业以太网路交换机解决方案的最佳首选。
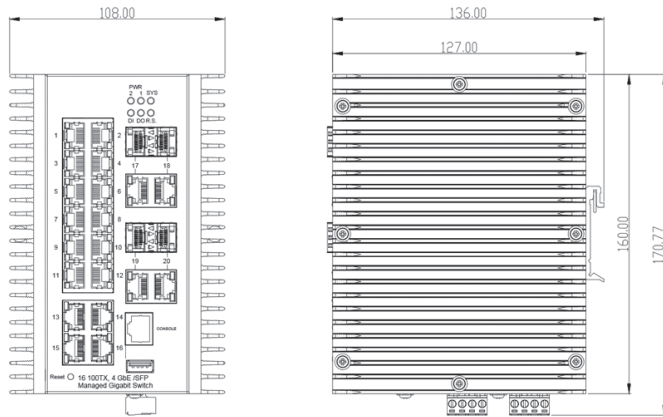
产品清单

▶ JetNet 5020G
▶ 轨道夹扣
▶ DB-9 to RJ-45 串口线
▶ 快速安装向导

接线的电源输入与地球接地

1.将正和负导线插入V+和V-接触端子台连接器上。

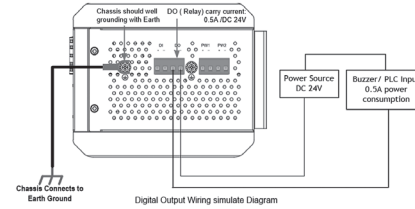2. 连接机箱接地与系统大地以便获得获得优良的电磁干扰保护，如静电,浪涌放电,快速脉冲放电。
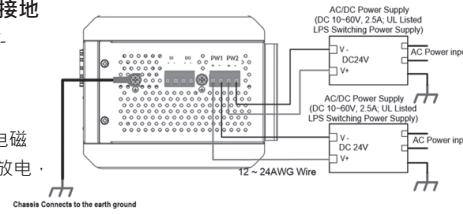
3.拧紧丝钳螺丝，以防止电源线发生松弛。

注意： 请采用国家核可具备安全规范的电源共应器，输出电压范围10~60V VDC，电流共应不小于 2.5A，建议采用 24V 作为标准操作电源电压。

连接继电器输出

继电器输出触点处于底侧上。继电器输出（DO）是通过预先定义的操作规则来控制。要激活继电器输出功能，请参阅用户手册，了解详细继电器输出的管理信息。

Digital Output Wiring simulate Diagram

注意： 继电器触点只支持0.5A电流，直流24V。不建议施加高于规格的电压和电流。

管理接口

JetNet50200G工业管理型以太网交换机提供了带内和带外配置方法。您可以通过RS-232控制面板的连接控制面板电缆配置交换机。或者你也可以选择的Telnet/SSH，网络/HTTPS进行远程网络管理交换机。

准备控制面板界面软件

将RS-232串口DB9连接到PC的串口。串口线的RJ-45连接器连接到JetNet交换机的Console口。

1.计算机开始 ▶程序集 ▶ 附属应用程序▶通讯▶超级终端机界面
2.建立一个超级终端机联机名称
3.选择COM串口名称，并选择正确的串口设置。JetNet交换机的串口端口设置如下：115200bps, N, 8,1
4.连接后，你会看到交换机登录请求。输入用户名和密码，然后就可以登录。默认用户名为"admin"，密码为"admin"。
5.连接后，你会看到交换机登录请求。输入用户名和密码，然后就可以登录。默认用户名为"admin"，密码为"admin"。

在网络管理上准备

1.启动PC上的网页浏览器
2.键入http://JetNet Managed Switch_IP_Address（默认IP地址是192.168.10.1），然后按Enter键。
3.登录屏幕窗口待会将出现。在用户名和密码，键入单击"确定"按钮。基于Web的管理界面的欢迎页面将出现即可。默认的用户名和密码是admin/admin。
4. 在Web管理接口的左侧栏的是交换机软件功能，其中点击环圈将列出可用的相关设置细项。

安装

界面介绍

JetNet 5020G是一款高密度端口的以太网交换机，支持16端口快速以太网和4个千兆以太网支持RJ-45或SFP的电口与光口共模设计。

轨道安装
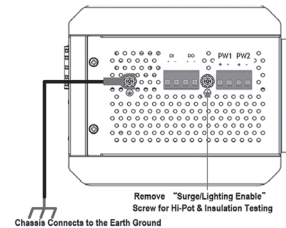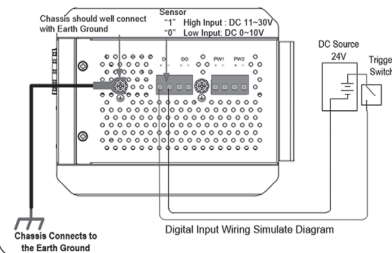
该导轨卡夹已经收紧锁定在后侧面板，请采用并支持EN50022标准的工业轨道以便安装交换机。

连接数字输入

数字输入（DI）接触是在该装置的底侧。它接受一个外部直流信号输入，并且可以配置为通过以太网发送警报消息时当信号改变时。该信号可以触发并通过外部电源开关产生的，就像是开门触发开关控制柜。

注意： DI接受DC型信号隔离输入电路，并支持使用数字高电平输入直流11V~30V和数字低电平输入DC0V~10V。不要施加电压超过规格更高;它可能会造成内部电路损坏或造成DI的一个错误动作。

Digital Input Wiring Simulate Diagram

连接电涌保护

电涌保护激活螺丝位于底部附近的电源和DI/ DO输入连接器。务必拧紧螺丝，确保机箱-接地螺丝与大地系统接地以便取得良好的浪涌雷击保护。

注意：
1.确保浪涌螺丝与机箱良好接地
2. 执行绝缘/耐压测试前，请先拆下浪涌保护螺。
3.切勿安装设备在雷电活动期以避免触电发生危险。

Remove "Surge/Lighting Enable" Screw for Hi-Pot & Insulation Testing

客户服务

5 年质保

所有科洛理思产品的设计、制造及测试都是采用较高的工业标准。科洛理思保证自产品出货日起提供最高5年之免费保修服务，保修期间如因零件损坏或制程不良而导致产品故障，我们提供免费维修服务。

自然外力（火、水、雷灾）所造成的产品故障，或其它外部因素如电源干扰、不当电源输入、不当接线等造成的损坏，不列入产品保固范围；此外，产品被误用、未经授权的修理及修改等行为将造成保固条款失效。

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。

此产品保证完全符合欧盟2003年1月27日电气和电子设备危害物质限制委员会限用指令2002/95/EC (RoHS)及2011/65/EU(RoHS 2.0)。

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