korenix
A Beijer Electronics Group Company

JetIO 6500 Series
Quick Installation Guide V1.2

Overview

JetI/O 6500 is a series of Managed Ethernet I/O modules for distributive monitoring and controls. The JeI/O 6500 series is equipped with one Ethernet port and multiple channels Analog Input/Output, Digital Input/Output and temperature measurement connectors. Thus, users can easily perform I/O data collecting, status changing, automatically activate events… through the Ethernet network. JetI/O 6500 series provides Windows Utilities, Web and SNMP for configuration as well as supports Modbus/TCP protocol, OPC Server for Modbus/TCP. Hence users can easily monitor and control the remote I/O devices and combine the JetI/O with existed HMI/SCADA package.

Package Check List
▸ JetI/O unit with attached mounting clip
▸ Terminal Blocks for I/O and Power
▸ Quick Installation Guide and
Software CD-ROM

Installation

Hardware Installation
▸ Din-Rail Mounting: Insert the upper end of the DIN-Rail clip into the back of the DIN-Rail track from its upper side. Push the bottom of the DIN-Rail clip into the track lightly. Check if the DIN-Rail clip is tightly attached to the track.
▸ Wiring the I/O pins: Follow the pin assignment to insert the wires into the front contacts on the terminal block connector. Tighten the wire-clamp screws to prevent the I/O wires from being loosened.
▸ Power the unit: Tighten the power wire and connect to the power source, then the unit will be powered on. When the unit is ready, the PWR LED turns Greed, the RDY LED turns Red. Note: The suitable working voltage is 24VDC.
▸ Connecting the Ethernet Port: Connect one side of an Ethernet cable into the LAN interface of the JetI/O while the other side is connected to the attached device. The LED will light up when the cable is correctly connected.

Software Setup

1. Change IP Address: You can use Device Finder Utility or Block I/O Utility to change IP address. Device Finder Utility can help you to search the units which have the same IP address, or its IP address is not in the same subnet of your host PC. Search the available device and change the new IP address to it. Note: Clearing ARP cache (arp –d in DOS prompt) if you can't change 2nd unit's IP address.

2. Install Block I/O Utilities: Insert the CD and the installation should auto-run itself. If the setup does not start automatically, first double click on "JetI/O Utility," then select "IO Configuration." Finally, double click on "Setup.exe" to install Windows utilities, Korenix Block I/O Utility and Block I/O OPC Server.

3. Find the JetI/O unit: Block I/O Utility will scan the network and search all available JetI/O 6500 units in the network. Note: Block I/O Utility can search available units which have different IP addresses. IP conflict may cause you can't find the units.

4. I/O status and configuration:

4.1 Select "General" then you can choose the type of the "Input range".

4.2 Select "Data" then you can see the information of each channel in the data area.

4.3 Select "Alarm" then you can configure the DI/DO "Condition and Action" rules, SNMP Trap alarm for the High-/Low- Voltage/Current/Temperature of each channel.
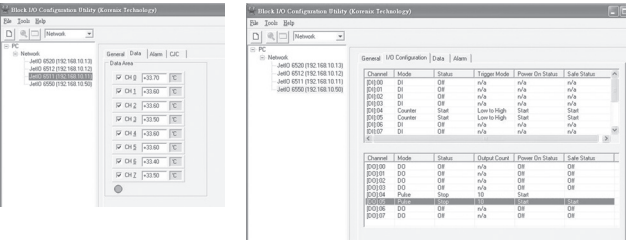
5. Block I/O OPC Server:

5.1 Select "File -> New" to create new profile. Or select "File -> Open" to open profile you saved.

5.2 Select "Add -> New Device", the popup window "Driver Selection" will appear. (Only appear in the first time you add new device). Click "Add" and type the driver name and correct IP address. Click "OK" to next popup windows. Use "Edit -> Com Setting" can modify the parameters.

5.3 Type the "Device Name" and select the "Device Type" in the "Device Configuration" window.

5.4 Select "Add -> New Group" to create new group for the later new tags you'll create. Select "Add -> New Tag" and fill the "Tag Properties" in the popup window.

5.5 Select "File -> Save" to save the profile. Then you can use OPC Client (HMI) to monitor the JetI/O through OPC Server driver.

Congratulations! You have finished JetI/O configurations successful. You can also use SCADA/HMI to control or monitor the JetI/O through the Modbus/TCP protocol, please refer to the manual for detail.

Support

3 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 three (3) 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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JetI/O 6500是一系列用于分布式I/O设备监控管理的网管型以太网I/O服务器。JetI/O 6500系列配备1个以太网口和包括多信道 Analog Input/ Output,Digital Input/ Output 和温度测量连接口等机种型号。从而,用户可以轻松透过以太网络实现I/O数据采集,状态变更,与自动触发事件报警。 JetI/O 6500 系列不仅提供 Windows 工具,Web 和 SNMP设定,也支持 Modbus/TCP 协议,OPC Server 支持 Modbus/TCP。因此用户可以轻松的整合 JetI/O 与现有的HMI/SCADA 监控组态应用软件,达成I/O设备的远程监控和管理。

产品清单

‣ JetI/O含安装配件
‣ 接线端子作为I/O和电源界面
‣ 快速安装向导和软件CD

硬件安装

‣ 导轨安装: 将导轨夹上端嵌入导轨背部,轻推导轨夹底部卡上导轨。检查导轨夹是否紧紧卡在导轨上。

‣ I/O pin脚联机: 根据pin脚定义,将线缆插入接线端子连接槽。拧紧接线螺丝,并确保I/O 线不会脱落。

‣ 电源连接: 将电源线接入接线端子槽,拧紧再连接到电源,并启动设备供电。当完成设备正常启动后,PWR LED指示灯变成绿色,RDY LED指示灯变成红色。注意: 使用设备供电电压为24VDC。

‣ 以太网口连接: 将以太网线的一端连接到JetI/O的LAN界面,另一端接到上连设备。当线缆连接正确后,LED指示灯会亮起。

‣ 将设备的地线螺丝接地,可确保设备使用安全,抗噪声干扰。设备未接地,因自然因素造成损害,将不予以修复。

软件设定

1. 更改IP: 你可以使用设备检索工具或Block I/O工具来变更IP地址。设备检索工具可帮助你搜索用于同样IP地址,或它的IP地址与主机并不在同一子网的设备。当检索到可用设备后,可为其更改新的IP。注意: 如果你无法更改第二台设备的IP时,请先清空ARP缓存(在DOS命令行输入arp-d)。

2. 安装Block I/O工具: 插入CD安装程序会自动营运。如果安装程序没有自动启动,先双击"JetI/O Utility,"然后选择"IO Configuration."最后双击"Setup.exe"来安装Windows工具: 包括Korenix Block I/O Utility 和Block I/O OPC Server。

3. 查找JetI/O设备: Block I/O 工具将搜索网络中所有可用的JetI/O 6500设备。注意: Block I/O 工具可以搜索所有用于不同IP的可用设备。IP冲突会导致你找不到相对应的设备。

4. I/O 状态和设定:

4.1 选择"General"你便可以选择"Input range"类型。

4.2 选择"Data"你便可以在数据区看到每个信道的讯息。

4.3 选择"Alarm"你便可以针对每个通道的High-电位/ Low-电位/ 电流/ 温度,设定 DI/DO "Condition and Action" 的规则, 来启动SNMP Trap报警。
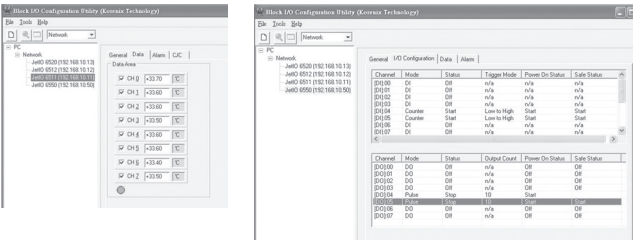
5. Block I/O OPC Server:

5.1 选择"File -> New"建立新profile,或选择"File -> Open"打开现存的profile。

5.2 选择"Add -> New Device", 会出现自动跳出窗口"Driver Selection"(只在你第一次添加新设备时出现)。 单击"Add"并键入设备名称和正确的IP地址。单击"OK"出现下一个自动跳出窗口。使用"Edit -> Com Setting"可修改其参数。

5.3 在"Device Configuration"窗口键入"Device Name"并选择"Device Type"。

5.4 选择"Add -> New Group"为即将新建的tag建立新组。选择"Add -> New Tag",并在自动跳出窗口中填入"Tag Properties"。

5.5 选择"File -> Save"储存profile. 然后你可以使用OPC Client (HMI) 透过OPC Server driver来监控JetI/O状态。

恭喜您! 你已经成功完成了JetI/O的设定。你还可以透过Modbus/TCP协议,使用SCADA/HMI等应用软件来进行I/O设备的远程控制和监视,详情请参考用户操作手册。

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然而,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,以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所提出的限用指令2002/95/EC(ROHS禁令)及2011/65/EU(RoHS 2.0)。

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