MOXA ioLogik E1200 Series Ethernet Remote I-O Installation Guide

Contents

MOXA ioLogik E1200 Series Ethernet Remote I-O

Package Checklist

- 1 ioLogik E1200 series remote I/O product
- Quick installation guide (printed)

Specifications

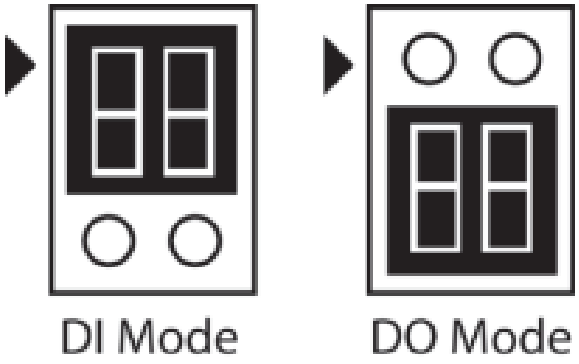
Input Current	ioLogik E1210 Series: 110 mA @ 24 VDC ioLogik E1211 Series: 200 mA @ 24 VDC ioLogik E1212 Series: 155 mA @ 24 VDC ioLogik E1213 Series: 130 mA @ 24 VDC ioLogik E1214 Series: 188 mA @ 24 VDC ioLogik E1240 Series: 121 mA @ 24 VDC ioLogik E1241 Series: 194 mA @ 24 VDC ioLogik E1242 Series: 139 mA @ 24 VDC ioLogik E1260 Series: 110 mA @ 24 VDC ioLogik E1262 Series: 118 mA @ 24 VDC
Input Voltage	12 to 36 VDC
Operating Temperature	Standard Models: -10 to 60°C (14 to 140°F) Wide Temp. Models: -40 to 75°C (-40 to 167°F)
Storage Temperature	-40 to 85°C (-40 to 185°F)

Installation

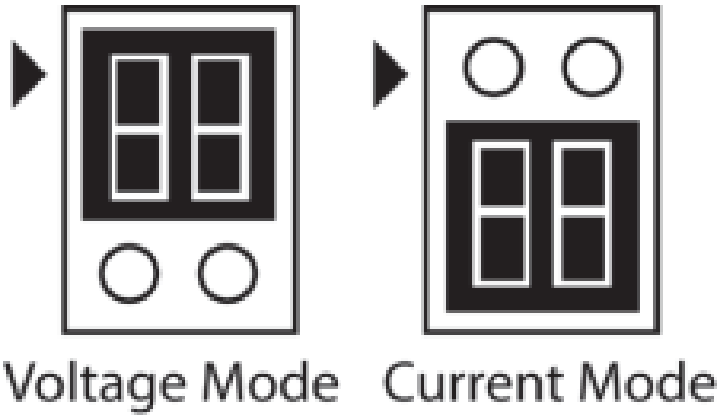
Jumper Settings

Models with DIO, AI, or external power channels require configuring the jumpers inside the enclosure. Remove the screw located on the back panel and open the cover to configure the jumpers.

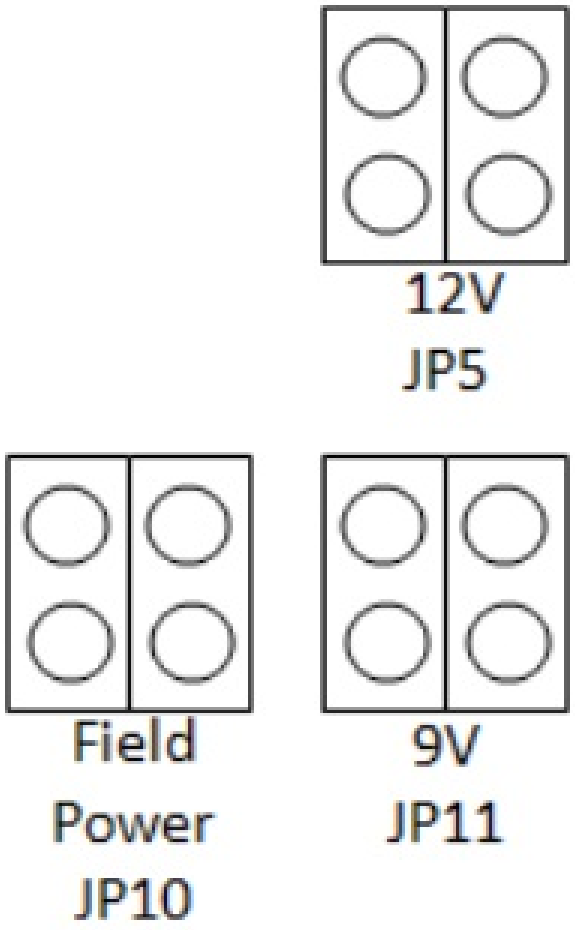
- DIO mode configurations are shown above (Default: DO Mode).



- Analog mode configurations are shown above (Default: Voltage Mode).



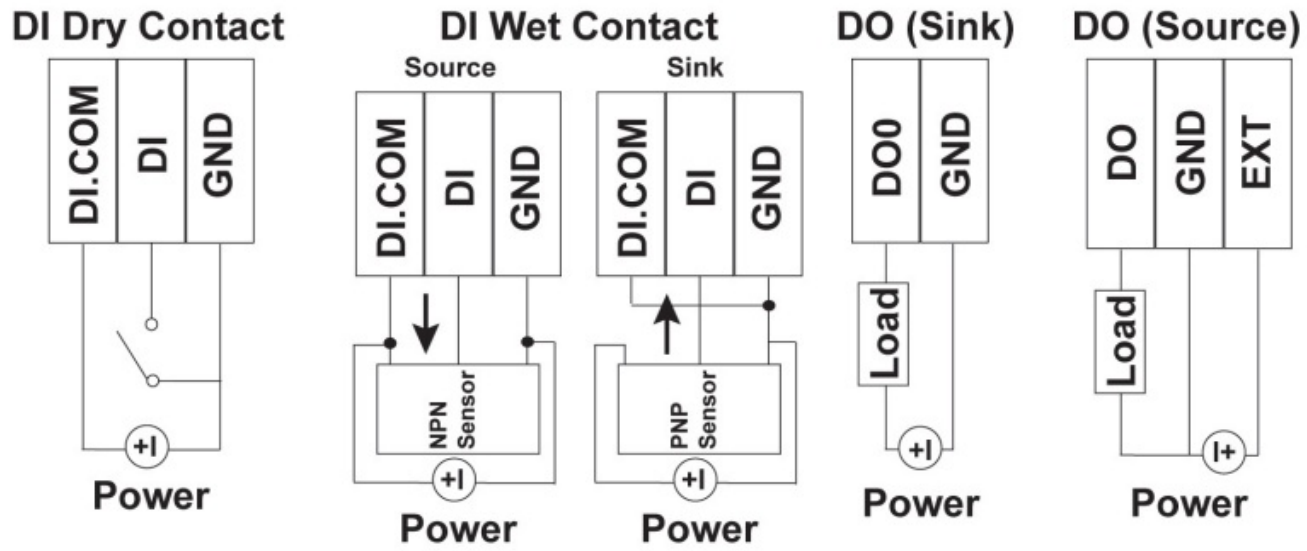
- DOs on the ioLogik E1213 have 3 possible external (EXT) power configurations, which are shown to the right. Only one field power can be selected at a time (JP10 / 12V JP5 / 9V JP11) and the jumper must be inserted vertically, not horizontally
  (Default: Field Power JP10).



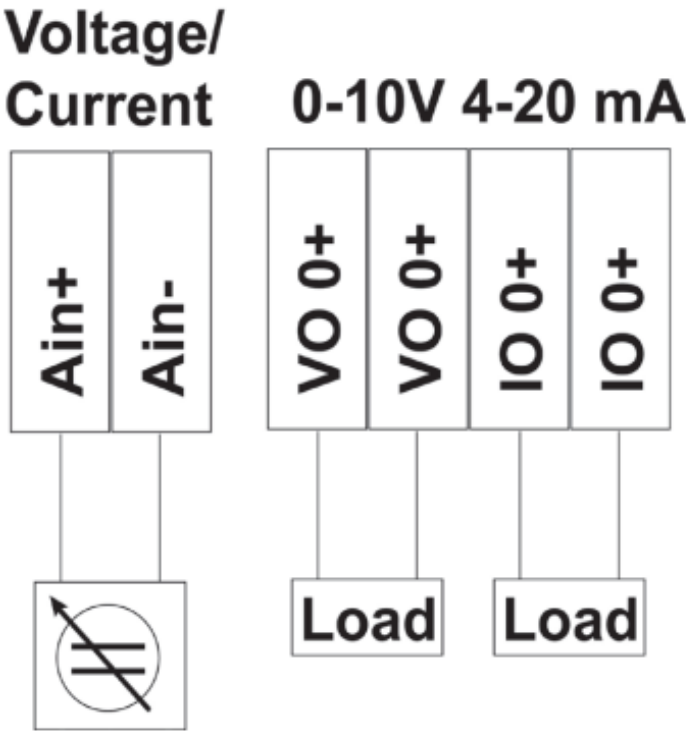
NOTE The ioLogik E1213 has 4 pure DO channels and 4 hybrid DIO channels. For the 4 pure DO channels, you can use the jumpers to select the power configuration output (i.e., field power, 12 V, 9 V). But for the 4 hybrid DIO channels, you cannot use the jumpers to select the power configuration output. Instead, you can only use the jumpers to set the DIO channels to either DI mode or DO mode.

I/O Wiring

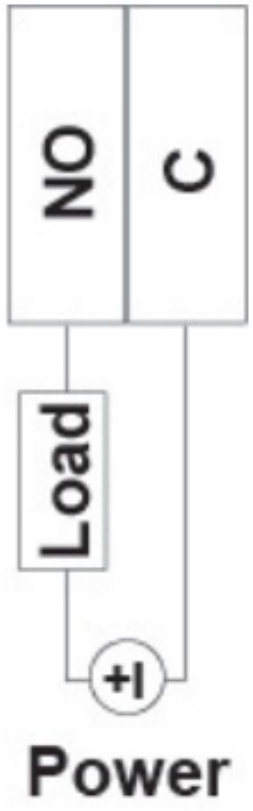
Digital Inputs/Outputs



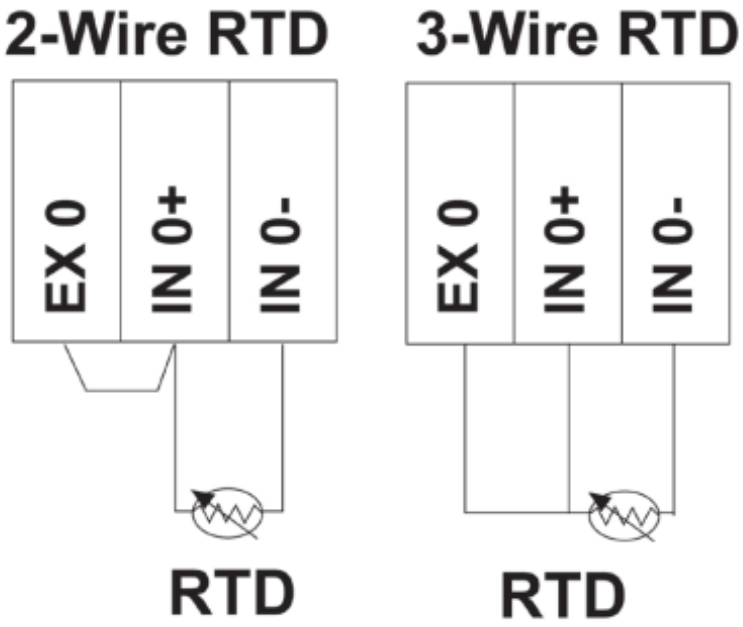
Analog Inputs/Outputs



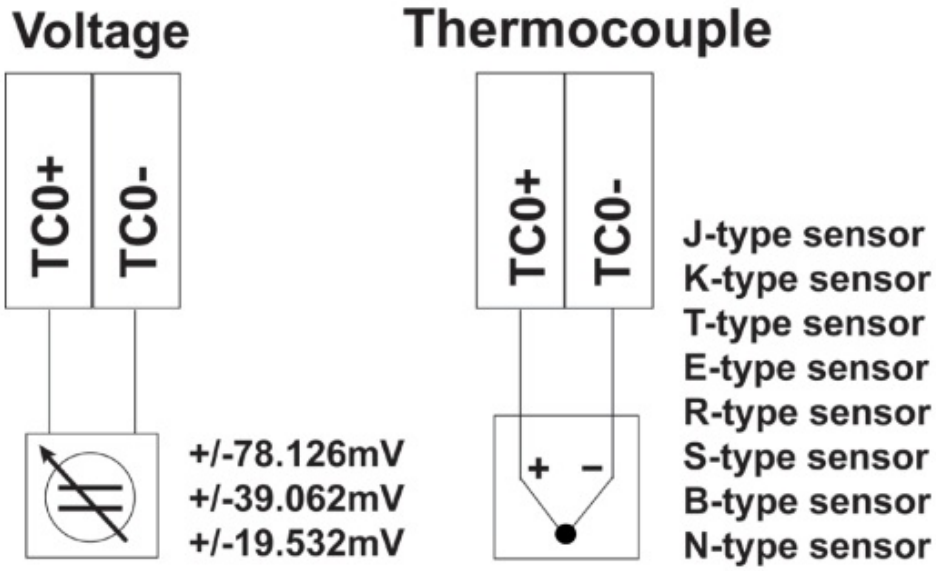
Relay Output (Form A)



RTD Inputs



TC Inputs



NOTE A “load” in a circuit schematic is a component or portion of the circuit that consumes electric power. For the diagrams shown in this document, “load” refers to the devices or systems connected to the remote I/O unit.

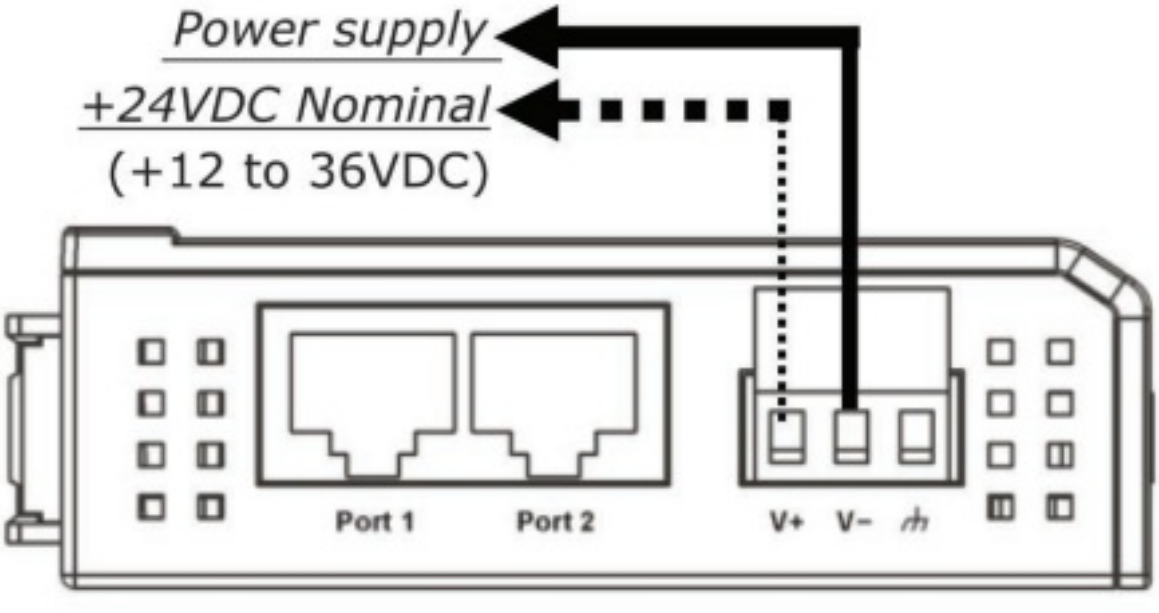
Mounting

There are two sliders on the back of the unit for DIN rail and wall mounting.

- Mounting on a DIN rail: Pull out the bottom slider; latch the unit onto the DIN-rail, and push the slider back in.
- Mounting on the wall: Pull out both the top and bottom sliders and align the screws accordingly.

Connecting the Power

Connect the +12 to +36 VDC power line to the ioLogik E1200’s terminal block V+ terminal; connect the ground from the power supply to the V- terminal. Connect the ground pin ( ) if earth ground is available.



NOTE For safety reasons, wires connecting the power supply should be at least 2 mm in diameter (e.g., 12 gauge wires).

Connecting to the Network

The ioLogik E1200 has two built-in RJ45 Ethernet ports for connecting standard direct or cross-over Ethernet cables.

LED Indicators

Type	Color	Description
Power	Amber	System power is ON
	Off	System power is OFF
Ready	Green	System is ready
	Flashing	Flashes every 1 sec when the “Locate” function is triggered
	Flashing	Flashes every 0.5 sec when the firmware is being upgraded
	Flashing	An on/off period cycle: 0.5 second shows “Safe Mode”
	Off	System is not ready.
Port 1	Green	Ethernet connection enabled
	Flashing	Transmitting or receiving data
Port 2	Green	Ethernet connection enabled
	Flashing	Transmitting or receiving data
EXT (E1213 only)	Green	EXT field power input is connected
	Off	EXT field power input is disconnected

System Configuration

Configuration via Web Console

Main configuration of an ioLogik E1200 is by web console.

- Default IP Address: 192.168.127.254
- Subnet Mask: 255.255.255.0

ioSearch Utility

.ioSearch is a search utility that helps users locate an ioLogik E1200 on the local network. The utility can be downloaded from Moxa’s website.

Load Factory Default Settings

There are three ways to restore the ioLogik E1200 to factory default settings.

1. Hold the RESET button for 5 seconds.
2. In the ioSearch utility, right-click on the ioLogik device to be reset and select Reset to Default.

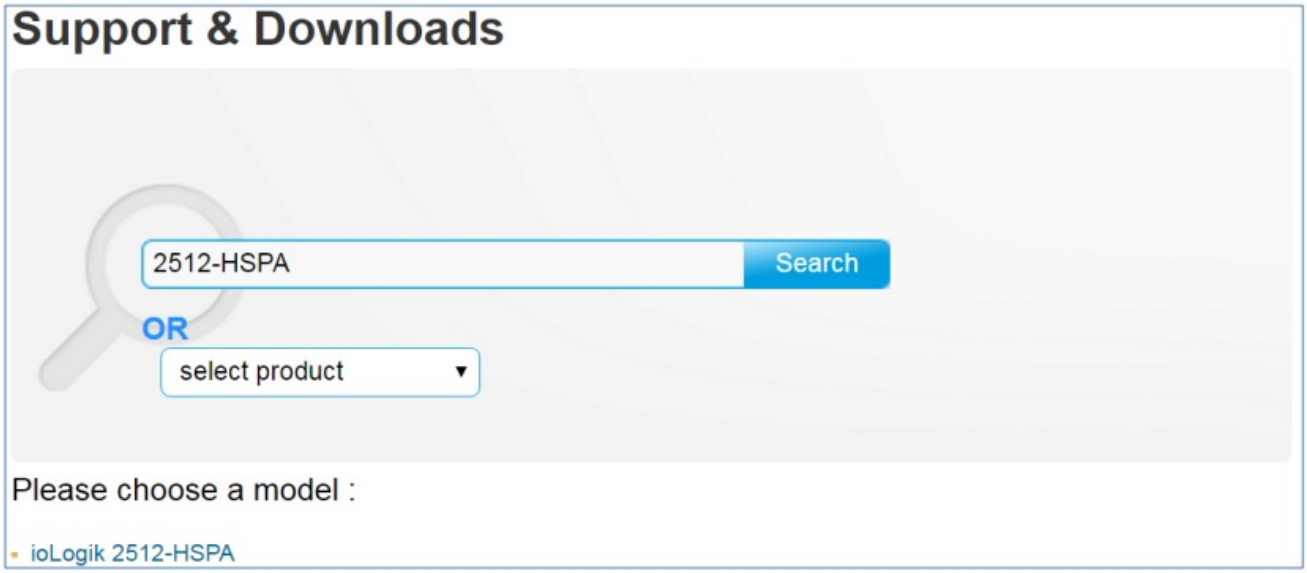
3. Select Load Factory Default from the web console.

NOTE Please refer to the user's manual for detailed configuration and settings information.

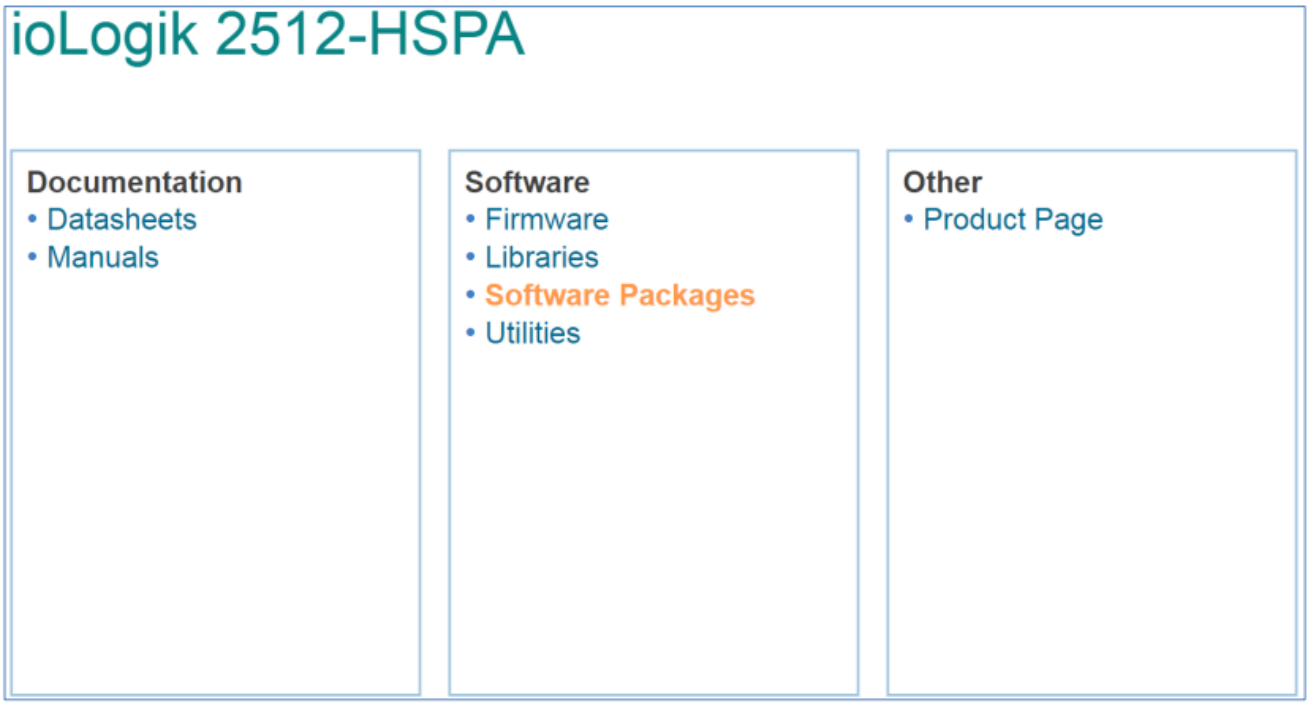
How to Download the Software

Step 1: Click on the following link to open the Support & Downloads search tool:
http://www.moxa.com/support/support_home.aspx?isSearchShow=1

Step 2: Type the model name in the search box or select a product from the drop down box and then click Search.



Step 3: Click the Software Packages link to download the latest software for the product.



ATEX Information

1. Certificate number: DEMKO 13 ATEX 1210600X
2. Certification string: Ex nA nC IIC T3 Gc
3. Standards covered: EN 60079-0:2012+A11:2013, EN 60079-15:2010
4. These products are to be installed in an ATEX Certified IP54 enclosure and accessible only by the use of a tool.
5. These products are for use in an area of not more than pollution degree 2 in accordance with IEC 60664-1.

Documents / Resources

	MOXA ioLogik E1200 Series Ethernet Remote I-O [pdf] Installation Guide ioLogik E1200 Series Ethernet Remote I-O, ioLogik E1200 Series, Ethernet Remote I-O

References

- ™ Moxa - Support
- User Manual