IED1522LR Logic / Relay Module
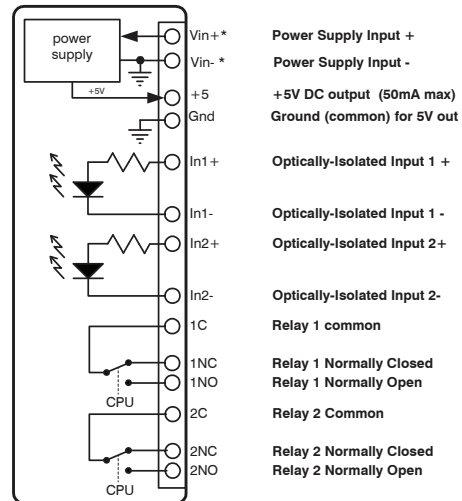## Quick Start Guide

INTRODUCTION

The 1522LR Logic / Relay Module is a cost effective interface module that operates as an integral part of an IED GLOBALCOM system. It is a web-enabled, programmable relay device for a wide variety of remote control and automation applications. It has two electro-mechanical relays, two optically-isolated inputs, and a wealth of cutting-edge features. The relays can be controlled remotely using actions configured in the GLOBALCOM control software. The optically-isolated inputs can be used to trigger actions or as logic monitor points that will register faults in the system. The module receives its power over IEEE 802.3af PoE (Power over Ethernet) and communicates with other system devices over the Ethernet network.

BASIC SETUP PROCEDURE

1. Connect unit to power and network.

2. Set up a computer on the same network as the input module. To do this, set the IP address of the computer to **10.2.150.x** (where "x" can be any unused address between 1 and 174) with a netmask of **255.0.0.0**.

3. Configure the 1522LR using web browser. Do this by pointing browser to **http://10.2.150.175/setup.html**. The login username is **admin** and the password is **iednet** (all lower case).

4. Set the permanent IP address, subnet mask and (optionally) the gateway address in the setup page under the Network tab.

5. If the host network supports it, change the Speed to 100 Mbps and the Mode to Full Duplex, also in the Network tab.

6. Submit the changes via the **Submit** button on the web page.

7. Reset the 1522LR via either the **Reset** button on the web page or by removing and re-applying power to the unit.

8. Next, set the computer back to its original or desired network settings for the installation and verify that the 1522LR can be accessed at its new (permanent) IP address.

9. Proceed to connect logic inputs and relay outputs as needed for the application.

1522LR Pinout

* - Power supply input terminals not used when device is connected to PoE source

Factory Default Settings	
IP Address:	10.2.150.175
Subnet Mask:	255.0.0.0
Control Web Address:	http://10.2.150.175
Setup Web Address:	http://10.2.150.175/setup.html
Setup Username:	admin
Setup Password:	iednet (all lower case)
Control Password:	no password set

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MAKING LOGIC CONNECTIONS

The logic inputs on the 1522LR are opto-isolated, which means they require a voltage differential to activate, not a simple open/closed condition. If connecting to dry contacts, a "wetting voltage" will have to be applied. The 1522LR has a built-in power supply and connections to supply just such a voltage. The proper way to connect a dry contact is to connect the power supply ground to the minus logic input and then connect the power supply voltage output to the plus logic input via the contact. This wiring arrangement is shown in the diagram below.
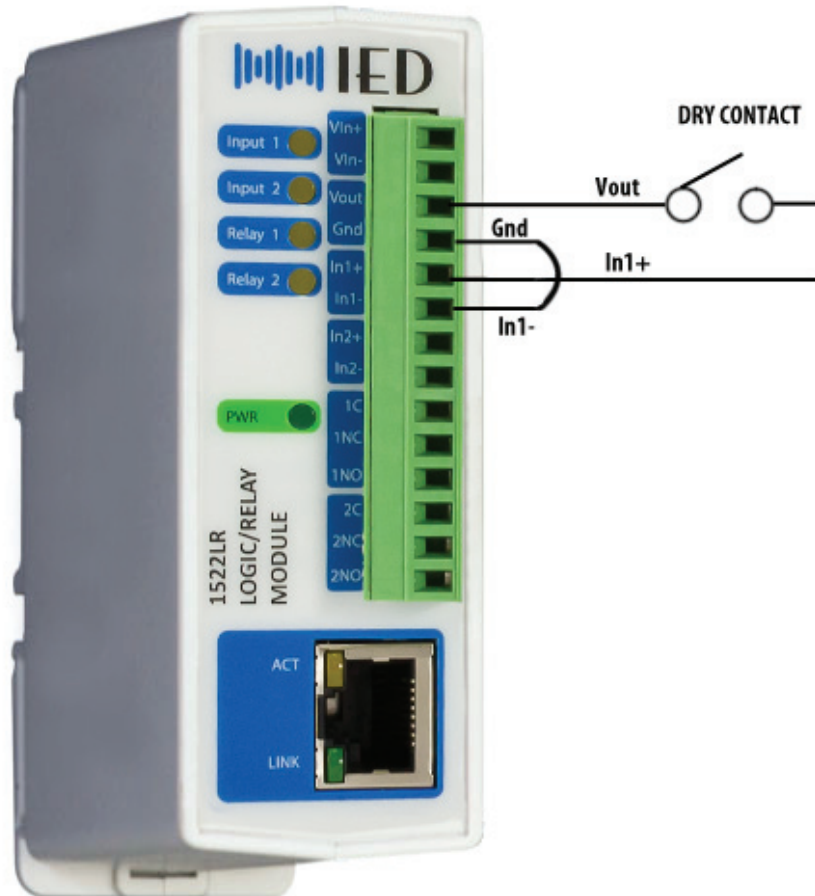
LOST IP ADDRESS

1522LR comes from the factory with the default IP address of 10.2.150.175. If the IP has been set to something else and one does not know the IP address of a 1522LR, one of two things can be done: (1) reset it to the factory default IP address or (2) assign it a temporary IP address.

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RESTORING FACTORY DEFAULT SETTINGS

In the event that the IP address or passwords are forgotten, the 1522LR may be restored to its original factory default settings. To do this, first remove the power from the unit. Next, carefully insert a thin object (such as a toothpick) through the small hole in the bottom of the unit to press the small button that is located inside the unit. When the object is inserted, a tactile feel can be detected as the button is depressed. While holding the button down, apply power and wait for about 10 seconds. After about 10 seconds, release the button. Now all settings will be back to the original factory defaults.

Reset Button Access Hole

CAUTION – Do NOT use metal objects for this function.

ASSIGNING A TEMPORARY IP ADDRESS

The device will retain the temporary address until power is reset to it. How to set it depends on the host system you are working from.

Windows:

Open a Command Prompt (select START, then RUN, then type "cmd"). Note: for Vista, the Command Prompt should be run as administrator (select Start, then type "cmd" and right click on "cmd" and select "Run as administrator").

Type:

    arp -s {new IP address} {serial number of the 1522LR }

Note: IP address format is xxx.xxx.xxx.xxx

Serial number format is ss-ss-ss-ss-ss-ss (I.e., the MAC address)

For example, to set a IED1522LR (with serial number 00-0C-C8-01-00-01) to 10.10.10.40 the following command would be used:

    arp -s 10.10.10.40 00-0c-c8-01-00-01

Next, type:

    ping -l 102 {new IP address}

(The character after the dash is a lowercase "L".) For example, if the new IP address is 10.10.10.40, the following command would be used:

    ping -l 102 10.10.10.40

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Assigning a Temporary IP Address (Continued)

Linux/Unix

Open a terminal, change to root user (su -, then enter root password).

Type:

    arp -s {new IP address} {serial number of the 1522LR }

Note: IP address format is xxx.xxx.xxx.xxx

Serial number format is ss:ss:ss:ss:ss:ss (i.e., a MAC address)

For example, to set the 1522LR (with serial number 00-0C-C8-01-00-01) to 10.10.10.40 the following command would be used:

    arp -s 10.10.10.40 00:0c:c8:01:00:01

Next, type:

    ping -s 102 {new IP address}

For example, if the new IP address is 10.10.10.40, the following command would be used:

    ping -s 102 10.10.10.40

Mac OS X

Open a terminal. Note that the terminal is in the "Utilities" directory, which is in the "Applications" directory.

Type:

    sudo arp -s {new IP address} {serial number of the 1522LR }

Note: Administrator password is required.

IP address format is xxx.xxx.xxx.xxx

Serial number format is ss:ss:ss:ss:ss:ss (i.e., the MAC address)

For example, to set a 1522LR (with serial number 00-0C-C8-01-00-01) to 10.10.10.40 the following command would be used:

    sudo arp -s 10.10.10.40 00:0c:c8:01:00:01

Next, type:

    ping -s 102 {new IP address}

For example, if the new IP address is 10.10.10.40, the following command would be used:

    ping -s 102 10.10.10.40