

### Installation Guide

The EIPR provides Ethernet-to-Ethernet routing between a wide-area-network (WAN) and a four-port 10/100 Mbps Ethernet switch on the local-area-network (LAN) side. Each port automatically negotiates data rate, sets flow control and uses the Auto-MDIX function for attaching local devices.

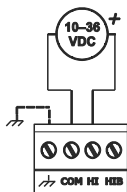
In some instances the EIPR will provide plug-and-play operation. By default, the router receives an IP address assignment for its WAN port via the built-in DHCP client while a DHCP server provides IP address assignments to LAN connected devices. A built-in DNS forwarder will pass DNS requests from a LAN host to the remote DNS server (through the EIPR WAN port). This allows you to install the EIPR with no configuration unless required for advanced routing features — or when non-default operating parameters are required. In these cases the default EIPR behaviour can be modified via its built-in web server located at 192.168.92.1.

**Powering.** An internal half-wave rectifier allows sharing a common AC power source with other half-wave devices. Voltage must deliver current commensurate with 6 VA power consumption. Power conductors should be 16–22 AWG (solid) or 16–18 AWG (stranded). Common is connected to 0 V. Chassis is isolated from 0 V. Inputs are reverse-polarity protected.

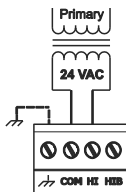
Input power: 10–36 VDC or 24 VAC  $\pm$  10%, 47–60 Hz.

Connecting chassis to earth or using a backup source is always optional.

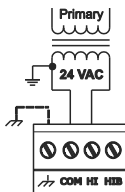
All options shown are for use in Class 2 circuits if applied voltage is limited to 30V DC.



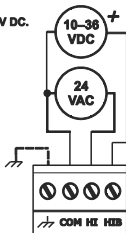
DC Powered



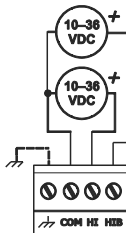
AC Powered



AC Powered with Grounded Secondary



AC Powered with DC Backup



Redundant DC Powered

## Specifications

### Environmental

Operating Temp:	0°C to +60°C
Storage Temp:	-40°C to +85°C
Humidity:	10–95%, non-condensing

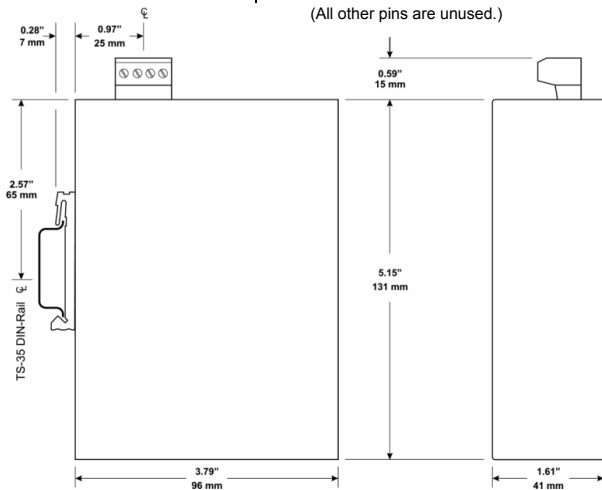
### DIN-rail Mounting

TS-35

### Regulatory Compliance

CE Mark; CFR 47 Part 15, Class A  
UL508 Industrial Control Equipment

### Mechanical



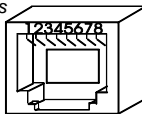
### Functional

Compliance:	ANSI/IEEE 802.3
Data Rates:	10 and 100 Mbps
Signalling:	10BASE-T and 100BASE-TX

### RJ-45 Pin Assignments

#### Pin Function

1	TD+
2	TD-
3	RD+
6	RD-



(All other pins are unused.)

## LED Indicators

The “PWR” LED glows solid green when the unit is properly powered. LED “L” for port 2 glows solid if a link exists, flashes for activity and shows data rate by colour: green for 100 Mbps or yellow for 10 Mbps. For full-duplex, the “D” LED is green; for half-duplex it is unlit but flashes if a collision occurs. The other port LEDs are unlabeled but work the same.

## Network Connections

Auto-MDIX allows connections to other equipment with either crossover or with straight-through cabling.

Medium	Signalling & Data Rate	Minimum Cable Needed	Maximum Segment Distance
Copper	10BASE-T 100BASE-TX 10/100 Mbps	CAT 5 UTP	100 m (328 ft)

**Initial Access Setup.** When first installing the EIPR, its default address could match that of a device on the Ethernet LAN and its DHCP server could interfere with your existing LAN devices. So the EIPR and the PC used for setup should both be temporarily disconnected from the existing LAN. The procedure for altering the IP address creates a temporary LAN composed of nothing but the EIPR, the PC used to configure it and a CAT5 cable connecting the two. Either straight-through or crossover cable can be used because the EIPR supports Auto-MDIX.

**Initial Access.** Your EIPR will provide a DHCP assigned IP address to your PC. Connect the PC directly to one of the LAN ports of the EIPR. Do not connect any other devices to any of the other EIPR ports at this time. On your PC, access *Network Connections*, then open the *Properties* of the *Local Area Connections*. Once the *Properties* pop-up opens, scroll down under the *General* tab and select *Internet Protocol (TCP/IP)*. When the next pop-up opens, choose *Obtain an IP address automatically*. Now close the opened pop-ups, and under *System Accessories*, open a *Command Prompt* window and type *ipconfig* to confirm that your change of IP address was successful. Remember to restore your PC's original IP/Subnet values when you are finished setting up the EIPR.

**Initial Login.** When the EIPR is first powered up, or after using the *Reset* button, the setup screen will be accessible from one of the LAN ports using the IP address 192.168.92.1 and a subnet mask of 255.255.255.0. In the login screen that appears, use the default value of **admin** for both the *Username* and *Password*.

**Setup Tab.** After login, the **Setup** screen appears. In both the WAN and LAN portions of the screen, set the desired values as per the resident instructions.

**Administration Tab.** On this screen it is recommended that you choose your own values of *Username* and *Password*.

**Status Tab.** This screen displays *Firmware Version*, *MAC Address*, *WAN Status* and *LAN Status* (including the resident DHCP server and its LAN clients, if enabled).

**Advanced Tab.** Here you can select and adjust the advanced features of the router as explained in the resident help screens.

**Reset Switch.** The Reset Switch (located just below the Power LED) will restore factory default settings including the IP address, netmask and subnet settings. To reset the router to its default values, use a paperclip or similar tool to press the *Settings Reset* button for at least 3 seconds while the router is powered. Then release the reset button and remove power from the router for 3 seconds. Restore power and the unit will now use the default IP values and the default *Username* and *Password*.

**Remember,** upon reset, the issues mentioned above in the paragraph that is titled *Initial Access* will apply!

## Need More Help Installing this Product?

More information can be found in the Technical Support part of our web site at [www.ccontrols.com](http://www.ccontrols.com). If contacting our office, ask for Technical Support.

## Warranty

Warranty information can be found at the URL below:

[www.ccontrols.com/warranty.htm](http://www.ccontrols.com/warranty.htm)

Warning: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

## Returning Products for Repair

Return the product to the location where it was purchased by following the instructions at the URL below:

[www.ccontrols.com/rma.htm](http://www.ccontrols.com/rma.htm)

## Declaration of Conformity

Information about the regulatory compliance of this product can be found at the URL below:

[www.ccontrols.com/compliance.htm](http://www.ccontrols.com/compliance.htm)

