# data







## **EIPR** — Skorpion Wired and Wireless IP Routers

The EIPR links two Internet Protocol (IPv4) networks together — passing appropriate traffic while blocking all other traffic. One of the networks is designated the local-area-network (LAN) and the other the wide-area-network (WAN). Because of the built-in stateful firewall, communication initiated on the LAN-side passes through the router while WAN-side initiated communication is blocked. With Port Address Translation (PAT), several clients on the LAN-side can gain access to the Internet. With Network Address Translation (NAT) there can be a

one-to-one translation between LAN-side and WAN-side addresses. With Port Forwarding, servers on the LAN-side can be accessed from the Internet via the WAN-side port. The EIPR incorporates a four-port 10/100 Mbps Ethernet switch for multiple LAN-side connections. An external Ethernet-based modem — cable or DSL — attached to the 10/100 Mbps WAN-side port can be used to connect to the Internet. DSL modems connect via the PPPoE protocol. A USB port allows expansion to wireless networks.

#### **EIPR Skorpion IP Router Features ...**

- Web page configuration
- 10/100 Mbps WAN port
- 4-port 10/100 Mbps Ethernet LAN switch
- PAT, NAT and Port Forwarding
- NAT Loopback
- Stateful firewall (can be disabled)
- DHCP client (WAN) and DHCP server (LAN)
- Wireless connectivity via USB port
- DIN-rail mounting
- Diagnostic LEDs
- CE Mark, RoHS, UL 508, C22.2 No. 142-M1987
- 24 VAC/VDC powered



EIPR-E



EIPR-E with user-provided Wi-Fi adapter installed

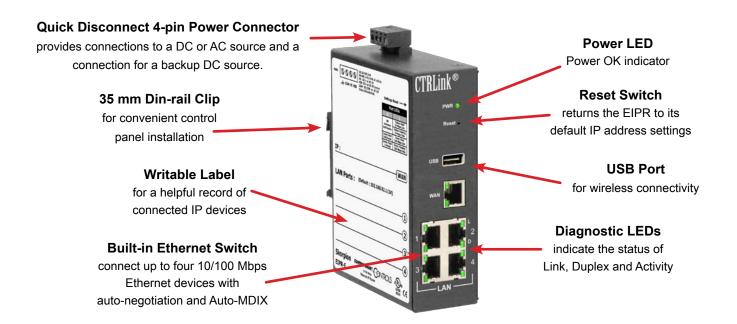


#### **Data Sheet — EIPR Series**

## **EIPR** — Skorpion IP Router

Although the EIPR has many of the same features found in high-end routers, it is simpler to install and commission. A resident DHCP server on the LAN-side will provide IP addresses to LAN-side clients while a DHCP client on the WAN-side will accept IP address assignments from the attached modem. Static addressing is accommodated

as well. Configuration is via a web browser using authentication. With a DIN-rail mounting clip, rugged metal enclosure and the ability to be powered from a low-voltage AC/DC power source, the EIPR is ideal IP router for automation systems.

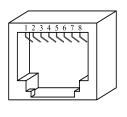


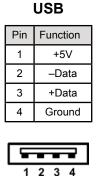
#### Connector Pin Assignments

#### **Ethernet**

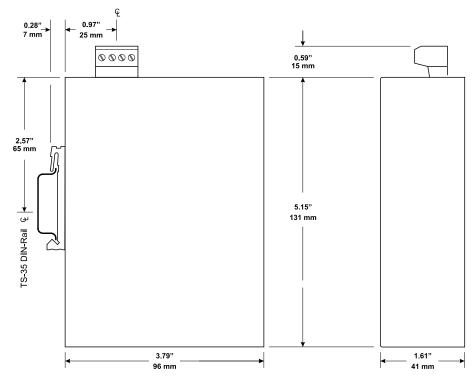
#### Pin Function +TD 1 2 -TD 3 +RD N/C 4 5 N/C 6 -RD N/C 7 N/C 8

All ports are MDIX.





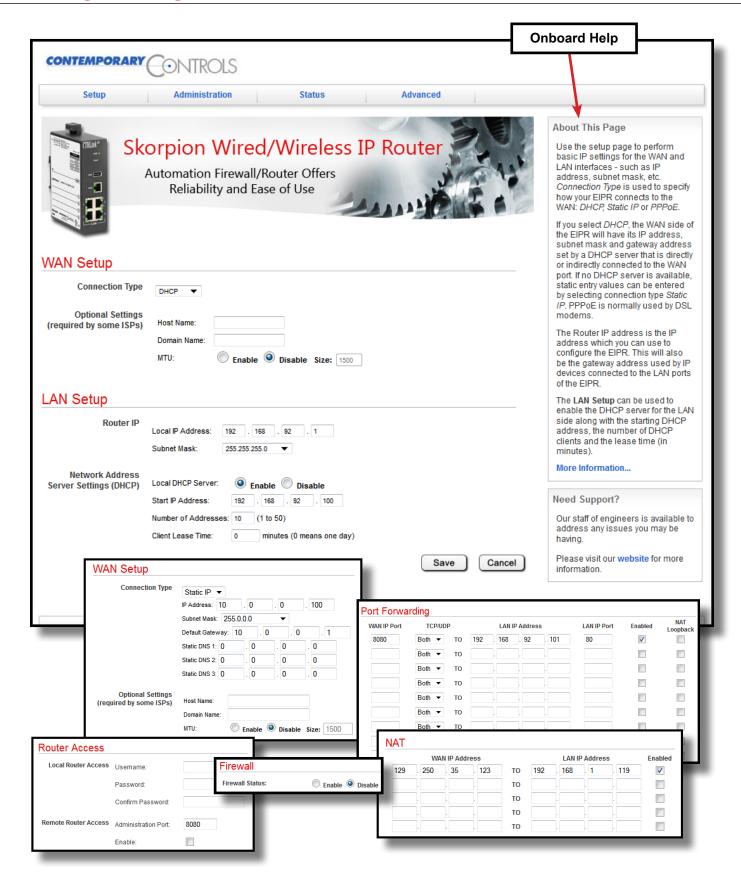
## **Mechanical Drawing**



CONTEMPORARY

DS-EIPR0000-BA0

## **Web Page Configuration**





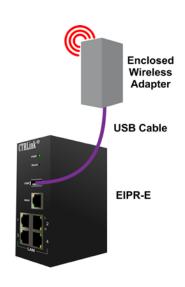
#### **Data Sheet — EIPR Series**

## Wi-Fi Connectivity

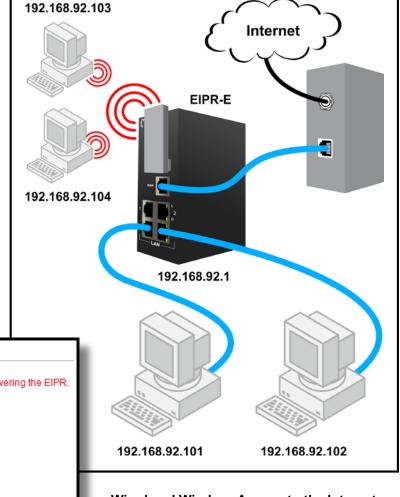
The resident USB port on the EIPR-E allows expansion to wireless networks once an appropriate wireless adapter is inserted into the port. One possibility is implementing a Wi-Fi access point — thereby increasing the number of LAN-side clients.

After connecting a USB Wi-Fi adapter (IEEE 802.11b, 802.11g, etc.), the EIPR can become a Wi-Fi access point. This will allow Wi-Fi devices to wirelessly communicate with the EIPR and with each other. Each wirelessly connected Wi-Fi device can receive a DHCP assigned address from the EIPR. When wirelessly

connected, each Wi-Fi device can also communicate directly with any EIPR LAN-connected devices and can also route through the EIPR WAN port for access to other subnets or to the Internet. The EIPR supports Wired Equivalent Privacy (WEP) and Wi-Fi Protected Access (WPA, WPA2) security in its communications. The other EIPR features, such as port forwarding, can also be applied to the wirelessly connected Wi-Fi devices. A list of supported Wi-Fi adapters can be found on the Contemporary Controls website under the EIPR product page.



Remote Wireless Adapter

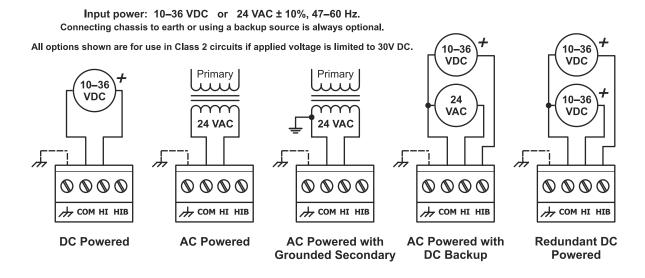


Wi-Fi Setup Enable: Please insert Wi-Fi adapter before powering the EIPR. EIPR WIFI SSID Broadcast SSID: Enable Disable CH 1 - 2.412 GHz ▼ Channel: WPA2 Personal ▼ Security Mode: AES ▼ Cipher Type: Group Key Update Interval: 3600 (seconds) Pre Shared Key:

Wired and Wireless Access to the Internet

#### **Power Considerations**

Applied voltage must be in the specified range and deliver a current commensurate with power consumption. The recommended size for solid power conductors is 16–20 AWG; and for stranded conductors use 16–18 AWG. Zero volts (COM) is isolated from chassis (earth). Input connections are reverse-polarity protected.

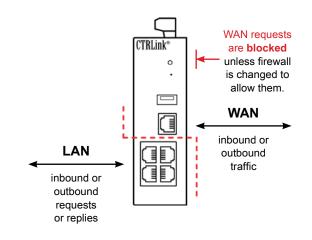


## Stateful Firewall — Promotes Secure Communication

The lower part of the router connects the LAN side (the local-area-network). The upper part connects the WAN side (wide-area-network). A firewall (which can be disabled by the user) separates the two parts.

A firewall controls the passing of messages from one side of a router to the other. A *stateful firewall* acts on the structure of the message and who is initiating and who is responding.

Originating requests from the LAN side and corresponding responses from the WAN side *pass through* the firewall. But traffic originating from the WAN side is *blocked* from the LAN side *unless* the firewall is adjusted to allow it. This protects the LAN side from unauthorised WAN access. **NOTE:** Wi-Fi is part of the LAN.





#### **Data Sheet — EIPR Series**

## **Specifications**

**Power Requirements** 10–36 VDC ±10% 6 W or 24 VAC ±10% 9 VA 47–63 Hz

Operating Temperature0°C to 60°CStorage Temperature-40°C to 85°C

**Relative Humidity** 10–95%, non-condensing

**Protection** IP30

**Mounting** TS-35 DIN-rail

Ethernet Communications IEEE 802.3 10/100 Mbps data rate

10BASE-T, 100BASE-TX physical layer

100 m (max) CAT5 cable length

**USB Port** USB 2.0, Type A

5 m (max) cable length

delivered power (max) 500mA

**LEDs** Power Green = power OK

L Green = 100 Mbps communication established

Yellow = 10 Mbps communication established

Flash = activity

D Green = Full-duplex operation

Off = Half-duplex operation

**Regulatory Compliance** CE Mark; CFR 47, Part 15 Class A; RoHS;

UL 508; C22.2 No. 142-M1987









# **Ordering Information**

Model	RoHS	Description
EIPR-E		Skorpion IP Router with Four-port Switch and USB port for wireless connectivity
ACC-WIFISTK-1		USB 802.11 b/g/n Wireless USB adapter
ACC-USBADPT-1		USB Right Angle Swivel Adapter
ACC-MTGKIT-1		Wall Mount USB Adapter Enclosure with 15' (4.5m) cable
ACC-USBCBL-15		15' USB Extension Cable

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