EIGR-E Series — Skorpion Gigabit Wired IP Routers

The EIGR-E series consists of high-speed routers that link two 10/100/1000 Mbps Internet Protocol (IPv4) networks — passing appropriate traffic while blocking all other traffic. One network is the local-area-network (LAN); the other is the wide-area-network (WAN). The built-in stateful firewall passes communication initiated on the LAN-side while blocking WAN-side initiated communication. With Port Address Translation (PAT), LAN-side clients can access the Internet. Network Address Translation (NAT) allows a one-to-one translation between LAN-side and WAN-side devices. With Port Forwarding, LAN-side devices can be accessed from the Internet. The EIGR-E incorporates a four-port Ethernet switch for multiple LAN-side connections. An external Ethernet-based modem — cable or DSL — can be used to connect to the Internet. DSL modems connect via the PPPoE protocol. The EIGR-E operates over 0 to 60°C temperature range and the EIGR-EX operates over −40 to +75°C temperature range.

EIGR-E Skorpion Gigabit IP Router Features…

- Web page configuration
- 10/100/1000 Mbps WAN port
- 4-port 10/100/1000 Mbps Ethernet LAN switch
- PAT, NAT, Port Forwarding and Port Range Forwarding
- NAT Loopback
- Remote Router Access
- Allowlist
- Stateful firewall
- DHCP client (WAN) and DHCP server (LAN)
- DIN-rail mounting
- Diagnostic LEDs
- CE Mark, RoHS, UL 508, C22.2 No. 142-M1987
- 24 VAC/VDC powered
- Operates over 0 to 60°C (EIGR-E)
- Operates over −40 to +75°C (EIGR-EX)

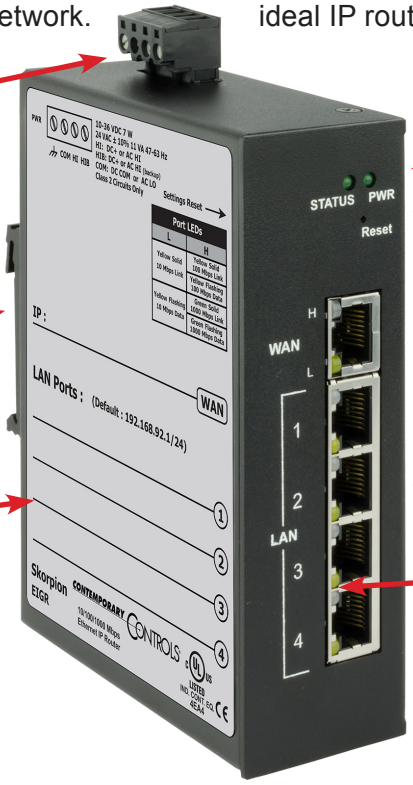
EIGR-E **EIGR-EX**

CTRLink®

EIGR-E — Skorpion Gigabit IP Router

Although the EIGR-E 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 network.

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 EIGR-E is ideal IP router for automation systems.



Quick Disconnect 4-pin Power Connector provides connections to a DC or AC source and a connection for a backup source

35 mm Din-rail Clip for convenient control panel installation

Writable Label for a helpful record of connected IP devices

Power LED Power OK indicator

Reset Switch returns the EIGR-E to its default settings

Built-in Ethernet Switch connect up to four 10/100/1000 Mbps Ethernet devices with auto-negotiation and Auto-MDIX

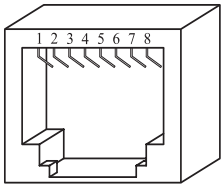
Diagnostic LEDs indicate the status of Link and Activity

Connector Pin Assignments

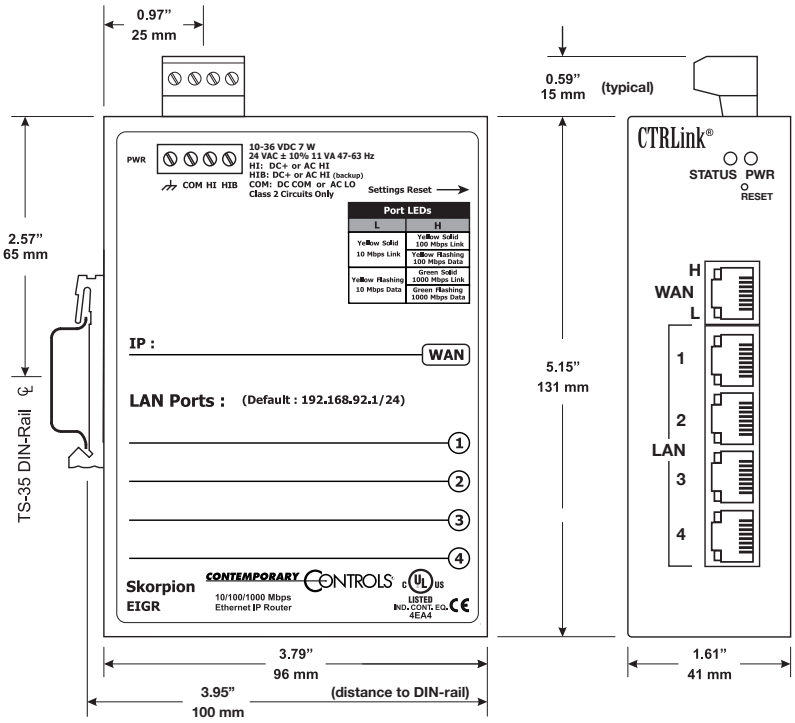
Ethernet
RJ-45 Pin Assignments

Pin	Function
1	BI_DA+
2	BI_DA-
3	BI_DB+
4	BI_DC+
5	BI_DC-
6	BI_DB-
7	BI_DD+
8	BI_DD-

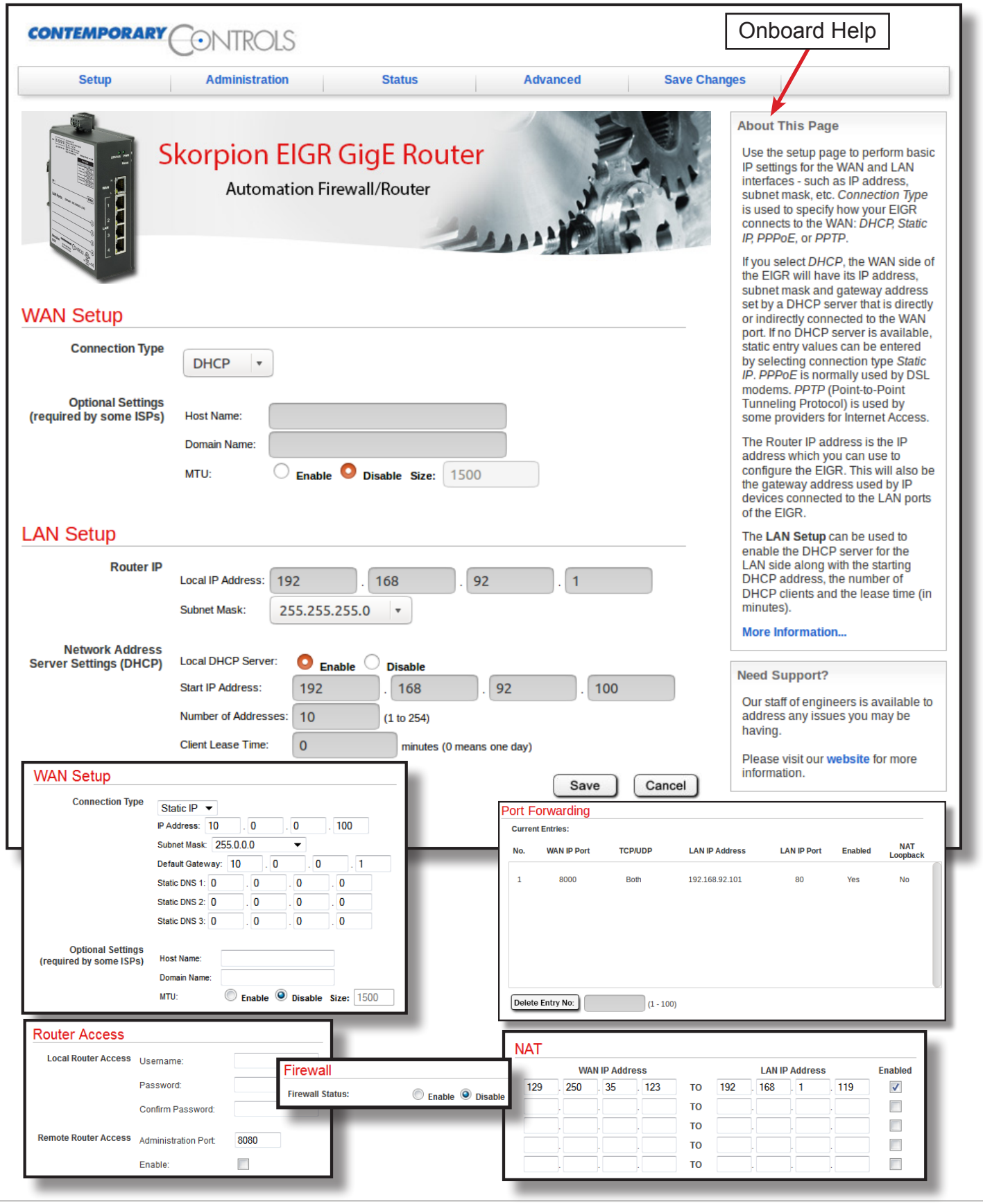
All ports are Auto-MDIX.



Mechanical Drawing



Web Page Configuration

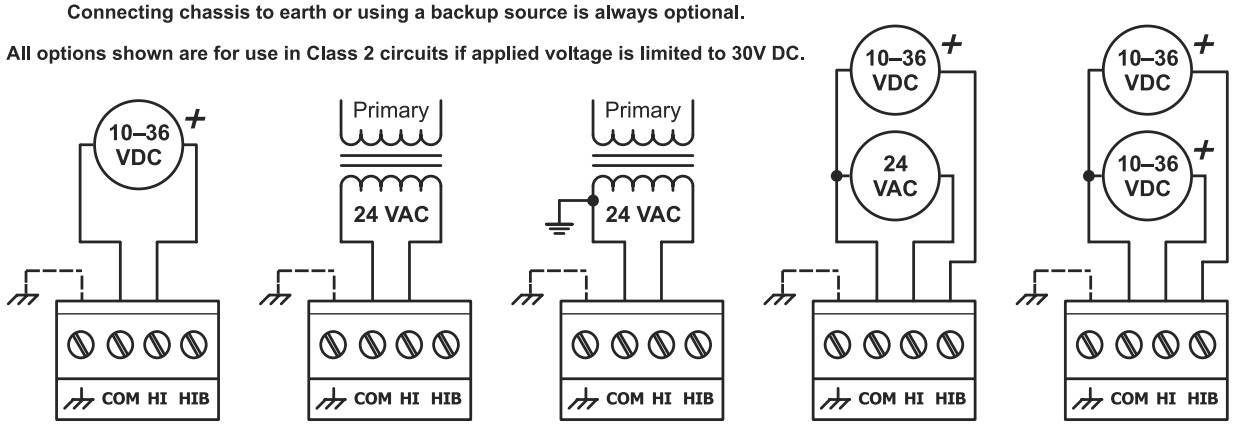


Power Considerations

Applied voltage must be in the specified range and deliver a current commensurate with pow 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.

Input power: 10–36 VDC or 24 VAC ± 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.



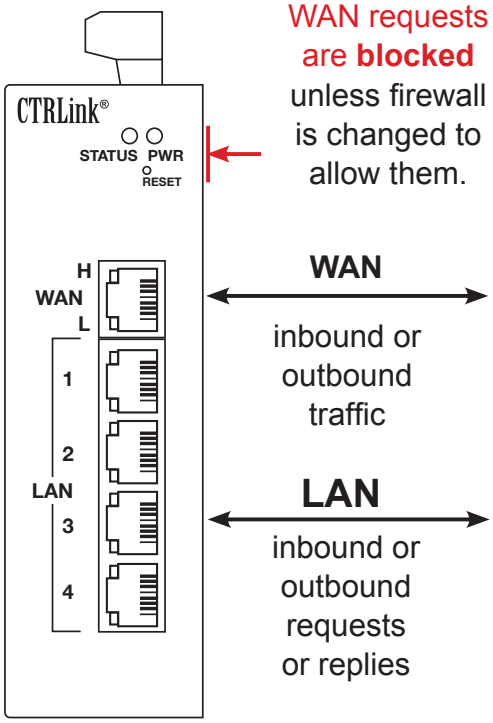
DC Powered | **AC Powered** | **AC Powered with Grounded Secondary** | **AC Powered with DC Backup** | **Redundant DC Powered**

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.



Specifications

Power Requirements	*10–36 VDC ±10% 7 W or 24 VAC ±10% 11 VA 47–63 Hz*	
Operating Temperature	*0 to 60°C (EIGR-E)* *−40 to +75°C (EIGR-EX)*	
Storage Temperature	*−40 to +85°C*	
Relative Humidity	*10–95%, non-condensing*	
Protection	*IP30*	
Mounting	*TS-35 DIN-rail*	
Ethernet Communications	*IEEE 802.3 10/100/1000 Mbps data rate* *10BASE-T, 100BASE-TX and 1000BASE-T* *100 m (max) CAT5e cable length*	
LEDs	*PWR*	*Green = Power OK*
	STATUS	*Green = Boot up complete*
	H	*Green = 1000 Mbps communication established* *Yellow = 100 Mbps communication established* *Flash = Activity*
	L	*Yellow = 10 Mbps* *Flash = Activity*
Regulatory Compliance	*CE Mark; CFR 47, Part 15 Class A; RoHS;* *UL 508; C22.2 No. 142-M1987*	

Ordering Information

Model	*RoHS*	*Description*
EIGR-E	✔	Skorpion GigE IP Router 0 to 60°C
EIGR-EX	✔	Skorpion GigE IP Router −40 to +75°C

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