

EIGR-C3 – Skorpion Gigabit IP Router with Cellular (Verizon)

The EIGR-C3 is a high-speed router that links cellular to 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 cellular is the wide-area-network (WAN). It also has an Ethernet port that can act as the WAN if cellular access is not required. 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. The EIGR-C incorporates a built-in cellular modem that works with Verizon, a real-time clock and

OpenVPN client functionality compatible with the Cloud-VPN service from Contemporary Controls (RemoteVPN). The EIGR-C3 operates over 0 to 60°C temperature range and the EIGR-C3X operates over –40 to +75°C range.

EIGR-C3 Skorpion Gigabit Cellular IP Router Features...

- Web page configuration
- LTE Cellular or 10/100/1000 Mbps WAN port
- 4-port 10/100/1000 Mbps Ethernet LAN switch
- OpenVPN Client (compatible with RemoteVPN)
- 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
- Operate over 0 to 60°C (EIGR-C3)
- Operates over –40 to +75°C (EIGR-C3X)



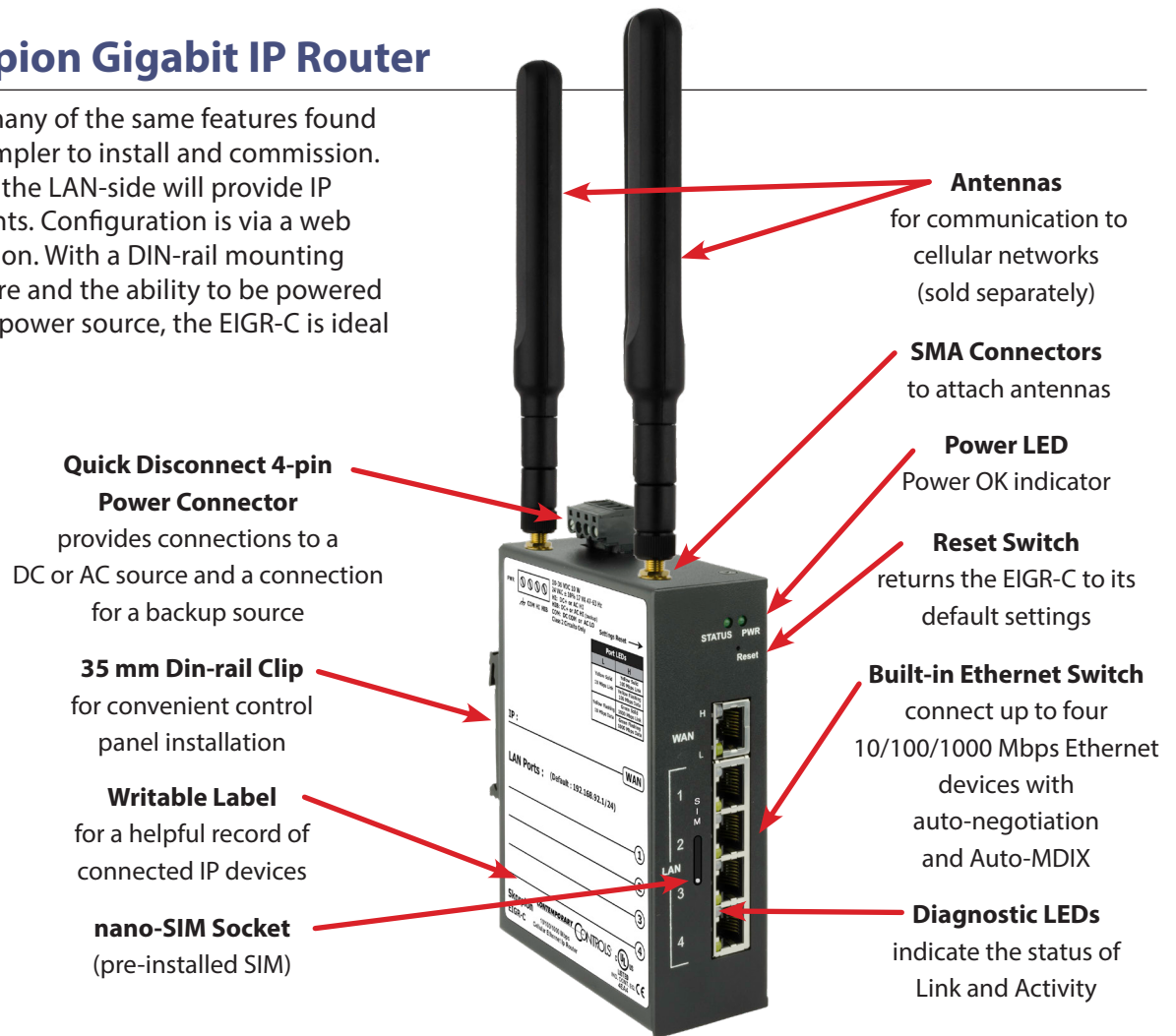
EIGR-C3

EIGR-C3X

CTRLink®

EIGR-C3 — Skorpion Gigabit IP Router

Although the EIGR-C 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. 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-C is ideal for automation systems.

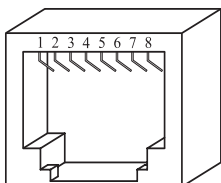


Connector Pin Assignments

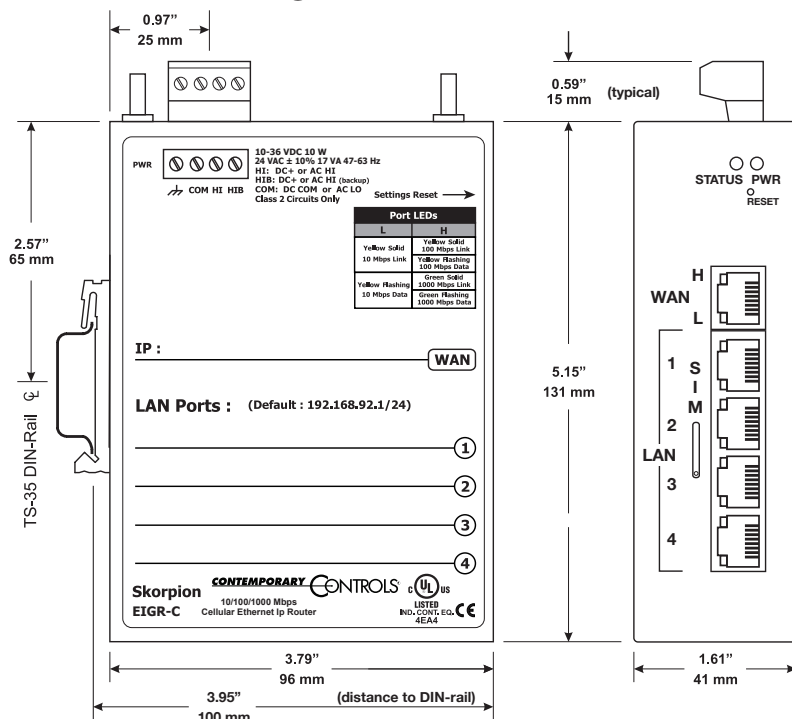
Ethernet RJ-45 Pin Assignments

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



Skorpion EIGR GigE Router

Automation Firewall/Router

[Onboard Help](#)

[Setup](#)
[Administration](#)
[Status](#)
[Advanced](#)
[Save Changes](#)

WAN Setup

Connection Type

Cellular ▾

APN:

Username:

Password:

Optional Settings (required by some ISPs)

Host Name:

Domain Name:

MTU: ☐ Enable ☒ Disable Size:

LAN Setup

Router IP

Local IP Address:

Subnet Mask:

Network Address Server Settings (DHCP)

Local DHCP Server: ☒ Enable ☐ Disable

About This Page

Use the setup page to perform basic IP settings for the WAN and LAN interfaces - such as IP address, subnet mask, etc. *Connection Type* is used to specify how your EIGR connects to the WAN: *Cellular*, *DHCP*, *Static IP*, *PPPoE*, or *PPTP*.

Select *Cellular* to use the built-in cellular modem and input the correct APN value. If you select *DHCP*, the WAN side of the EIGR will have its IP address, subnet mask and gateway address set by a DHCP server that is directly or indirectly connected to the WAN port. If no DHCP server is available, static entry values can be entered by selecting connection type *Static IP*. *PPPoE* is normally used by DSL modems. *PPTP* (Point-to-Point Tunneling Protocol) is used by some providers for Internet Access.

The Router IP address is the IP address which you can use to configure the EIGR. This will also be the gateway address used by IP devices connected to the LAN ports of the EIGR.

The LAN Setup can be used to enable the DHCP server for the LAN side along with the starting DHCP address, the number of DHCP clients and the lease time (in minutes).

[More Information...](#)

Need Support?

Our staff of engineers is available to address any issues you may be having.

Please visit our [website](#) for more information.

WAN Setup

Connection Type

Static IP ▾

IP Address:

Subnet Mask:

Default Gateway:

Static DNS 1:

Static DNS 2:

Static DNS 3:

Optional Settings (required by some ISPs)

Host Name:

Domain Name:

MTU: ☐ Enable ☒ Disable Size:

Port Forwarding

Current Entries:

No.	WAN IP Port	TCPIUDP	LAN IP Address	LAN IP Port	Enabled	NAT Loopback
1	8000	Both	192.168.92.101	80	Yes	No

Delete Entry No: (1 - 100)

Router Access

Local Router Access

Username:

Password:

Confirm Password:

Remote Router Access

Administration Port:

Enable: ☐

Firewall

Firewall Status: ☐ Enable ☒ Disable

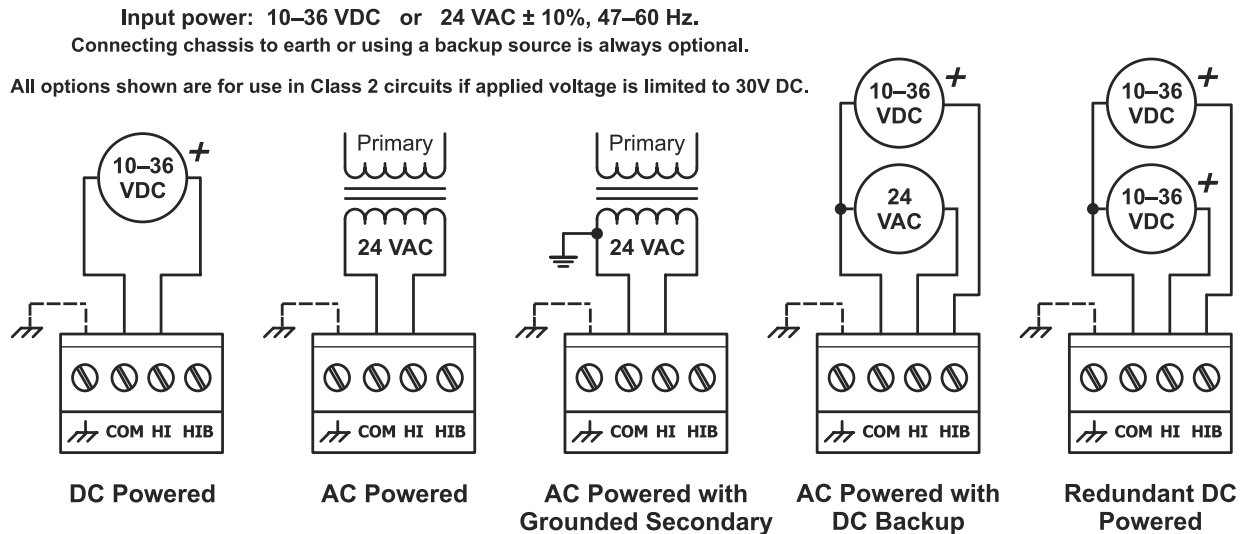
NAT

WAN IP Address					LAN IP Address				Enabled
129	250	35	123	TO	192	168	1	119	☒
				TO					☐
				TO					☐
				TO					☐
				TO					☐

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.

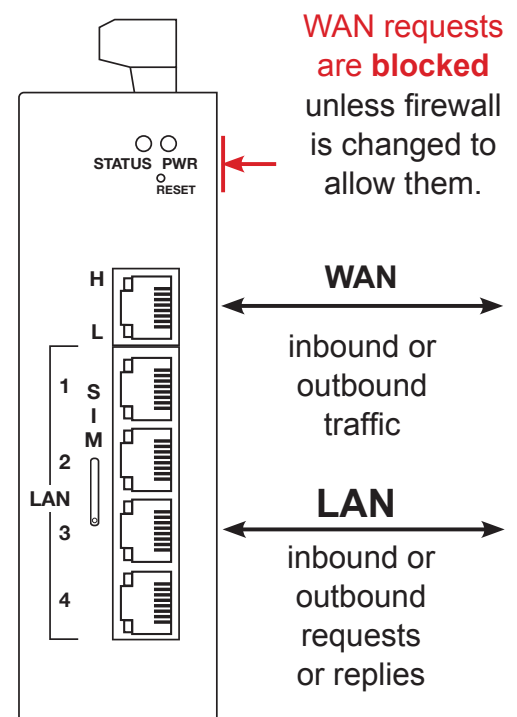


Stateful Firewall — Promotes Secure Communication

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.



Specifications

Power Requirements	10–36 VDC $\pm 10\%$ 10 W or 24 VAC $\pm 10\%$ 17 VA 47–63 Hz
Operating Temperature	0 to 60°C (EIGR-C3) –40 to +75°C (EIGR-C3X)
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
Cellular	LTE CAT 1, Verizon Certified, Bands B4 and B13 Antennas* - Main and Receive Diversity SIM Size - nano-SIM/4FF (pre-installed) FCC ID: 2AU57EIGR-C3
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-C3	✓	Skorpion GigE IP Router with Cellular (Verizon) 0 to 60°C
EIGR-C3X	✓	Skorpion GigE IP Router with Cellular (Verizon) –40 to +75°C

* Antennas sold separately

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