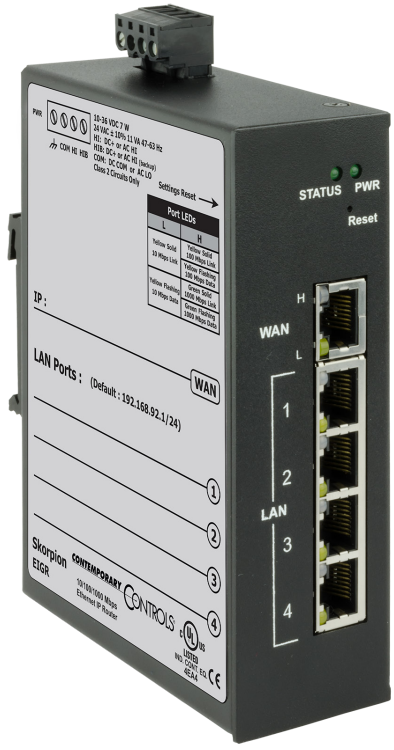
EIGR-VB – Skorpion Gigabit Wired Bridge VPN Router

The EIGR-VB high-speed router links 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-VB 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-VB includes real-time clock and OpenVPN client/server functionality. As a VPN Server, up to 10 VPN clients (Windows/Linux PCs) can be supported. The VPN clients are bridged to the LAN side and are provided an IP address from the LAN subnet. This allows passage of multicast and broadcast messages through the VPN tunnel and provides the same application experience to the VPN client device as if it was connected directly to the LAN side. The EIGR-VB operates over 0 to 60°C temperature range.

EIGR-VB Skorpion Gigabit IP Router Features…

- Web page configuration
- 10/100/1000 Mbps WAN port
- 4-port 10/100/1000 Mbps Ethernet LAN switch
- Secure Virtual Private Network (VPN) Client
- Secure Bridge Mode VPN Server
- PAT, NAT, Port Forwarding and Port Range Forwarding
- Stateful Firewall and Allowlist
- Remote Router Access and NAT Loopback
- 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-VB

CTRLink®

EIGR-VB — Skorpion Gigabit IP Router

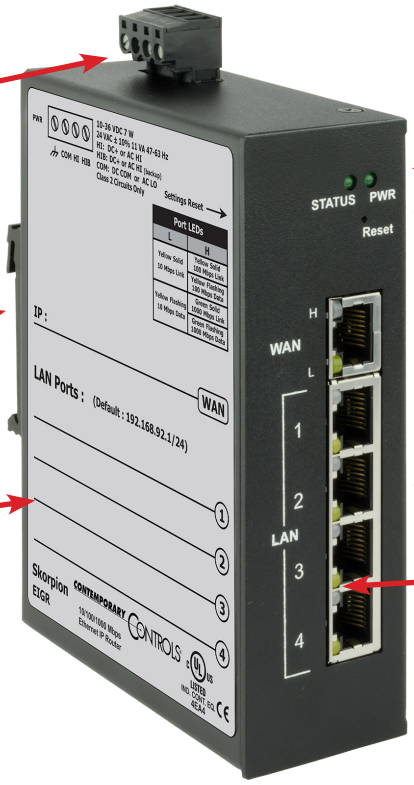
Although the EIGR-VB has many of the same features found in high-end routers, it is simpler to install and commission. A resident DHCP server on the LAN- side will provide IP addresses to LAN-side clients while a DHCP client on the WAN-side will accept IP address assignments from the attached network.

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-VB 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-VB to its default settings

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

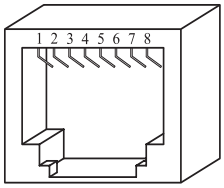
Diagnostic LEDs indicate the status of Link and Activity

Connector Pin Assignments

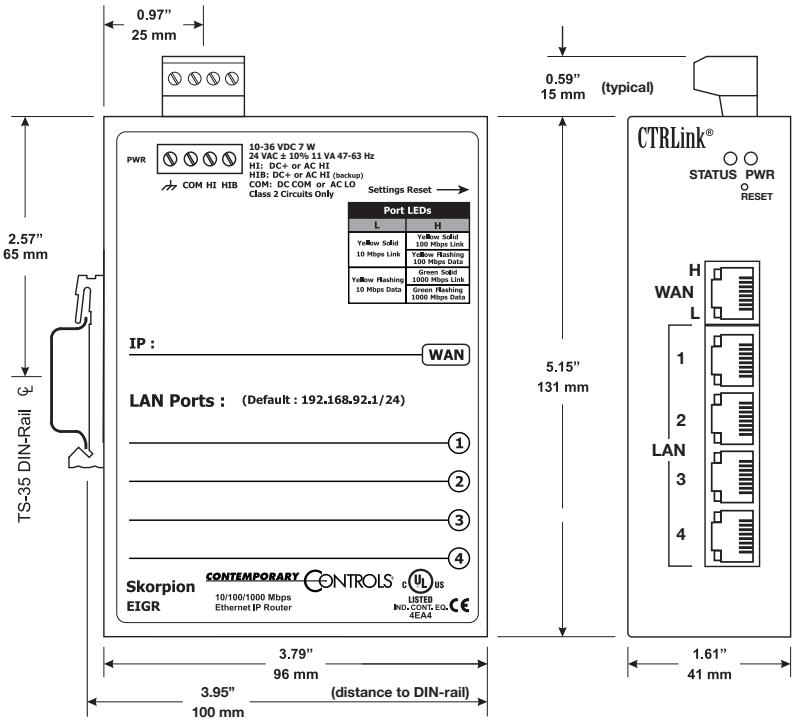
Ethernet
RJ-45 Pin Assignments

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-

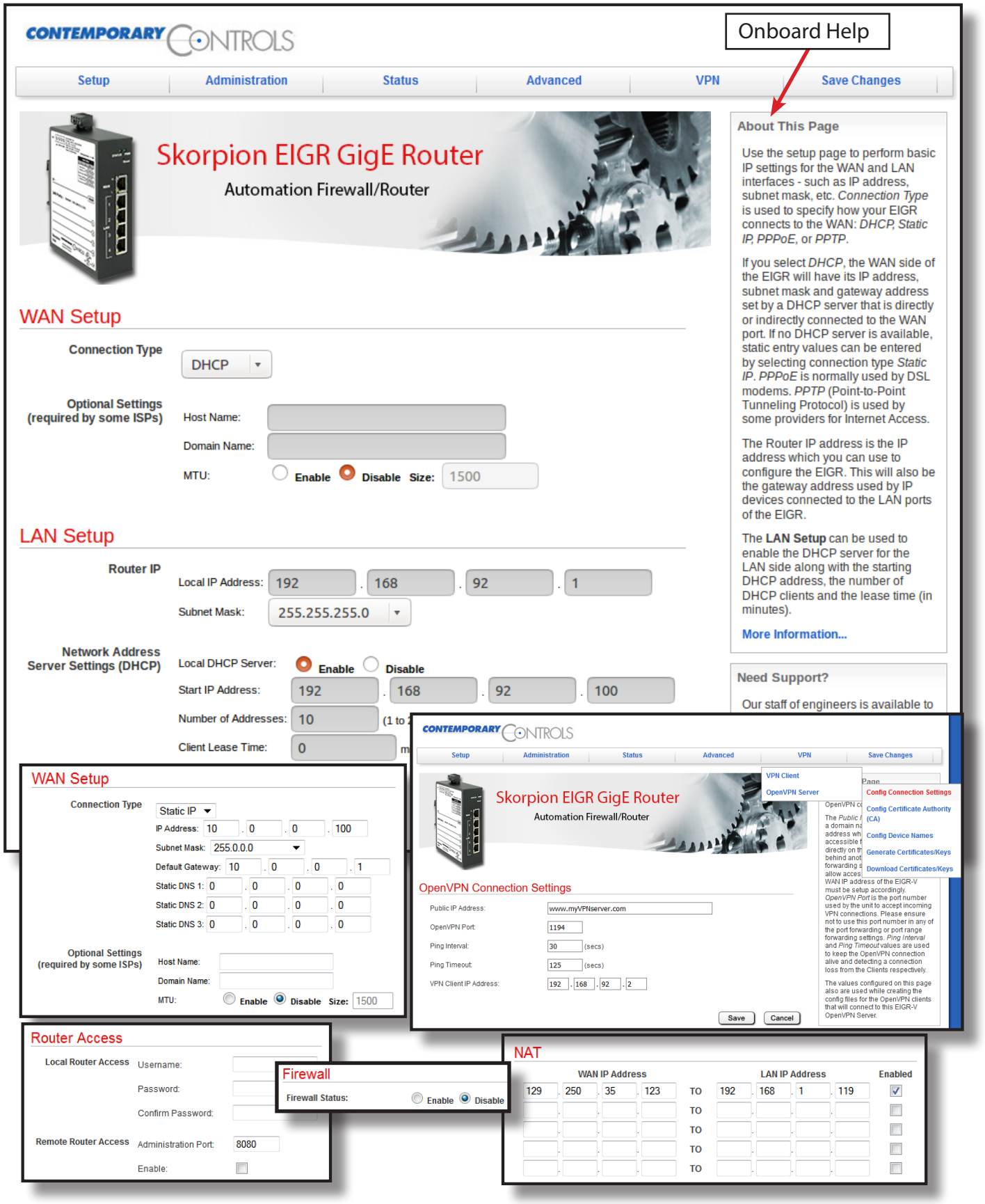
All ports are Auto-MDIX.



Mechanical Drawing



Web Page Configuration

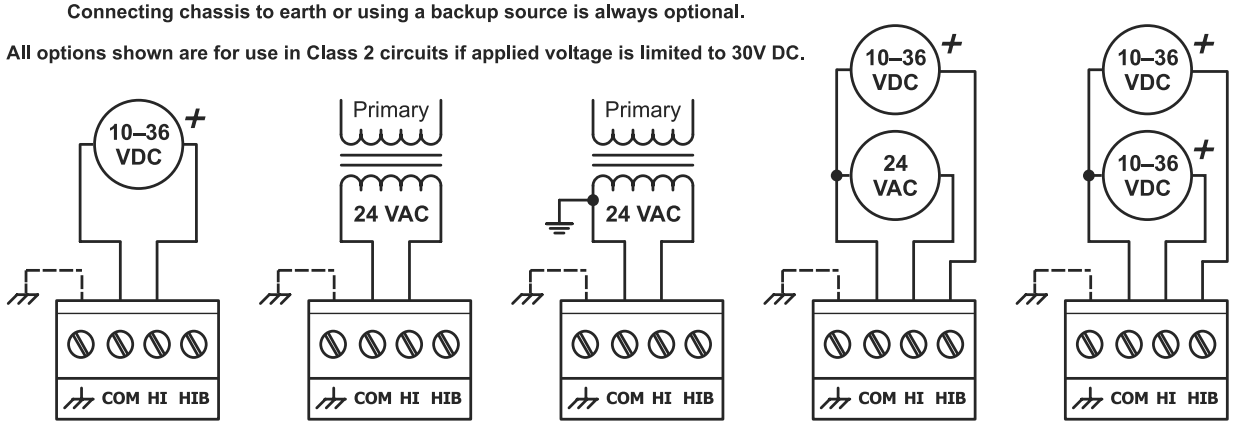


Power Considerations

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.

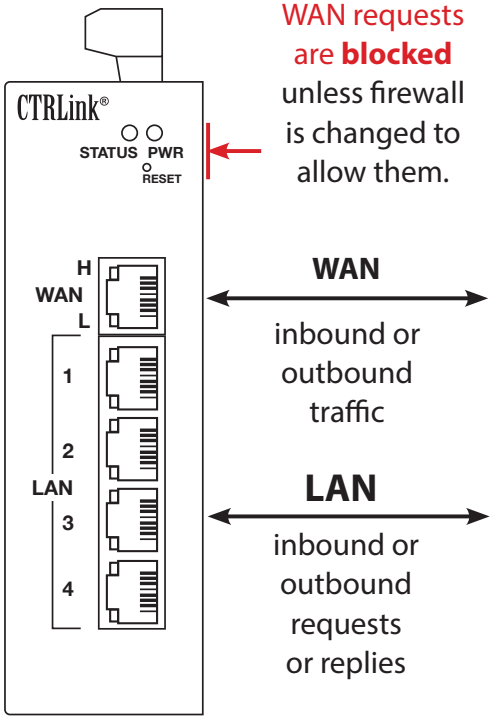


Stateful Firewall — Promotes Secure Communication

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
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-VB	✔	Skorpion GigE IP Router with Bridge VPN 0 to 60°C

United States
Contemporary Control Systems, Inc.
Tel: +1 630 963 7070
Fax:+1 630 963 0109
info@ccontrols.com

China
Contemporary Controls (Suzhou) Co. Ltd
Tel: +86 512 68095866
Fax: +86 512 68093760
info@ccontrols.com.cn

United Kingdom
Contemporary Controls Ltd
Tel: +44 (0)24 7641 3786
Fax:+44 (0)24 7641 3923
ccl.info@ccontrols.com

Germany
Contemporary Controls GmbH
Tel: +49 341 520359 0
Fax: +49 341 520359 16
ccg.info@ccontrols.com

www.ccontrols.com