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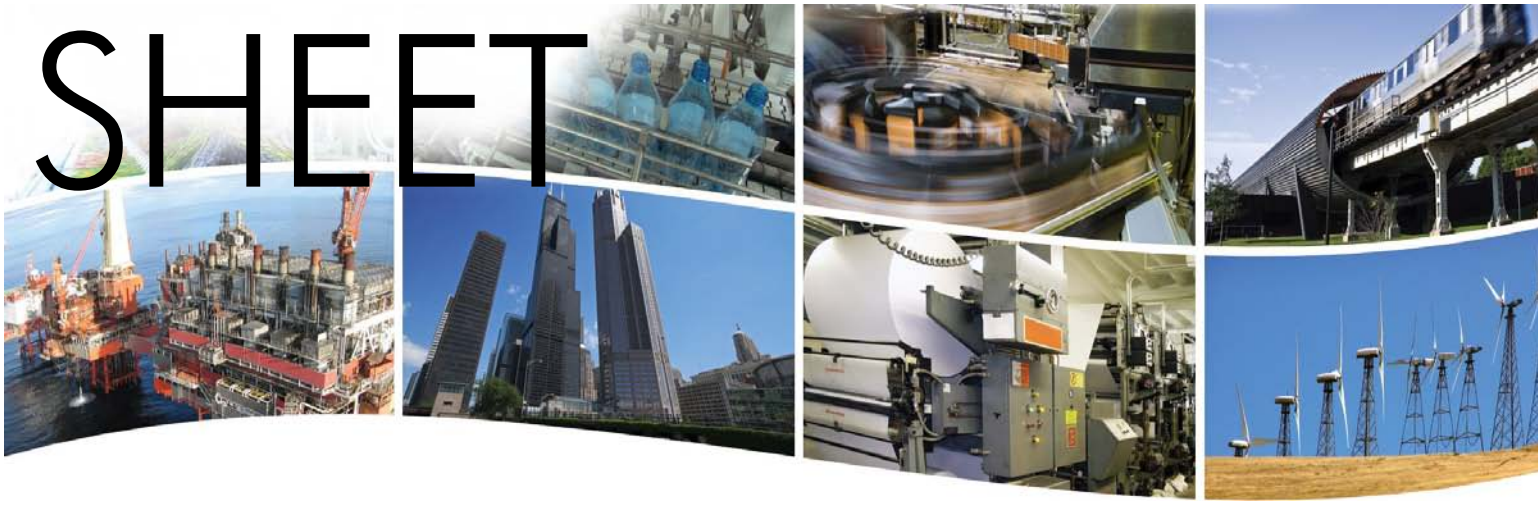


8-Port Skorpion Gigabit Switch — Now with PoE!

Cost Effective, High-speed — Compact Size

The EISK8P-GT Skorpion Gigabit Switch is an 8-port unmanaged Ethernet switch with Gigabit Ethernet (GigE) performance on all ports and Power-Over-Ethernet (PoE) on four ports. GigE jumbo frames up to 9216 bytes are supported for maximum system performance. For 10/100 Mbps legacy devices, its port speed automatically slows — accommodating any Ethernet automation system. This low-cost compact unit has a rugged metal enclosure and is intended for DIN-rail mounting in control panels.

Ports 5 – 8 PoE provide data and power over one Cat5e cable. The unit acts as power sourcing equipment (PSE) — supplying up to 15.4 W per port for IEEE 802.3af-compliant powered devices (PD). PoE eliminates the need for additional power supplies for Ethernet-enabled devices placed in challenging locations — such as wireless access points or IP cameras mounted out of reach or outdoors. PDs can be located up to 100 metres from the switch.

This plug-and-play switch requires no configuration. All ports automatically configure data rate and duplex using the Auto-negotiation protocol. Depending on the capability of the link partner, communication is set at 10, 100 or 1000 Mbps at either half- or full-duplex. All ports accommodate either crossover or straight-through cable via the Auto-MDIX protocol.

The unit is powered from 48 VDC. LED indicators assist in troubleshooting network issues.

- Plug-and-Play operation
- 4 PoE ports deliver up to 15.4 W each
- 10BASE-T/100BASE-TX/1000BASE-T
- Shielded RJ-45 connectors
- Auto-negotiation of speed and duplex
- Auto-MDIX supports crossover cables
- LEDs for link/activity, data rate, power, and PoE status
- DIN-rail mounting
- Rugged metal enclosure
- Diagnostic LEDs
- Enhanced EMC compliance
- CE Mark compliant, RoHS compliant
- 48 VDC powered

CTRLink®

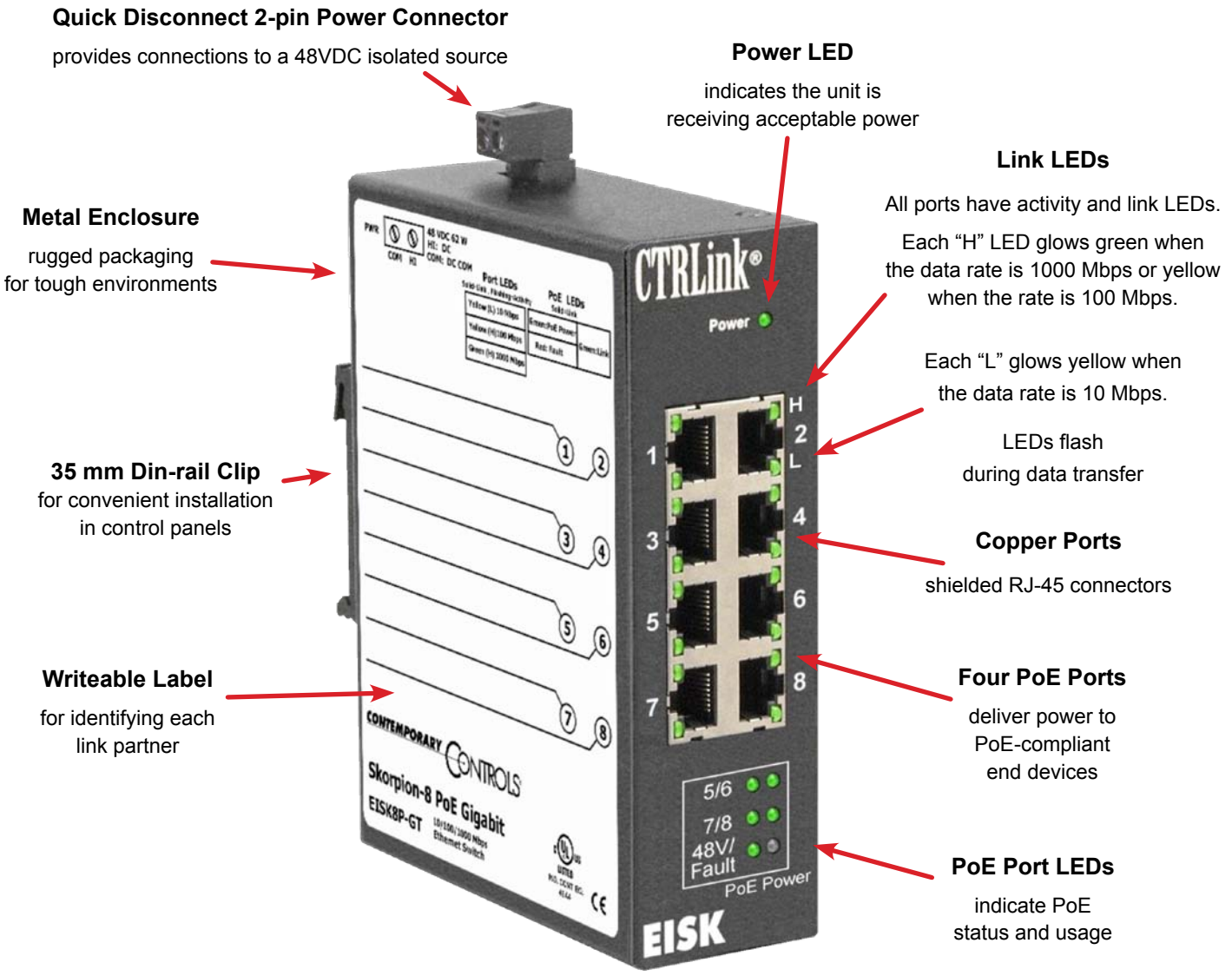
Overview

The Skorpion Gigabit Switch is intended for control panel installations where DIN-rail space is at a premium by requiring a width of only 41 mm of rail space. A metal DIN-rail clip attached to the aluminium enclosure can survive the toughest installation. A writable side label allows the installer an opportunity to document field cabling locations right on the unit.

The switch is powered from an external 48 VDC isolated power supply. A removable power connector facilitates the servicing of the unit.

LEDs built into the connector indicate data rate and activity on each of the eight ports — greatly assisting in troubleshooting connection issues.

The switch is UL 508 Listed and c-UL Listed for Industrial Control Equipment. It complies with CFR 47 Part 15 Class A, and carries the CE Mark. It is RoHS compliant.



Specifications

Power Requirements	48 VDC ±5% isolated, 62 W (all PoE ports used) or 5 W (no PoE ports used) Class 2 circuits only
Power to Each PoE Port	48 VDC, 15.4 W (12.95 W min after 100m of Cat5e cable)
Operating Temperature	0°C to 60°C
Storage Temperature	–40°C to 85°C
Relative Humidity	10–95%, non-condensing
Protection	IP30
Mounting	TS-35 DIN-rail
Shipping Weight	1 lb (0.45 kg)
Ethernet Communications	IEEE 802.3af 10/100/1000 Mbps data rate using RJ-45 connectors, 100 m (max) Supports jumbo frames up to 9216 bytes

LEDs

Power	Green = internal power OK
48V	Green = 48 V PoE power OK
Fault	Red = PoE power fault
“H” LEDs	Green = 1000 Mbps communication established
	Yellow = 100 Mbps communication established
“L” LEDs	Yellow = 10 Mbps communication established
“H” or “L” LEDs	Flashing = data transmissions occurring

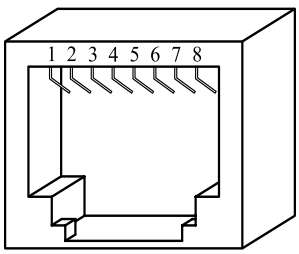
Regulatory Compliance

CE Mark; CFR 47, Part 15 Class A; RoHS;
UL 508, C22.2 No. 142-M1987
IEEE 802.3af

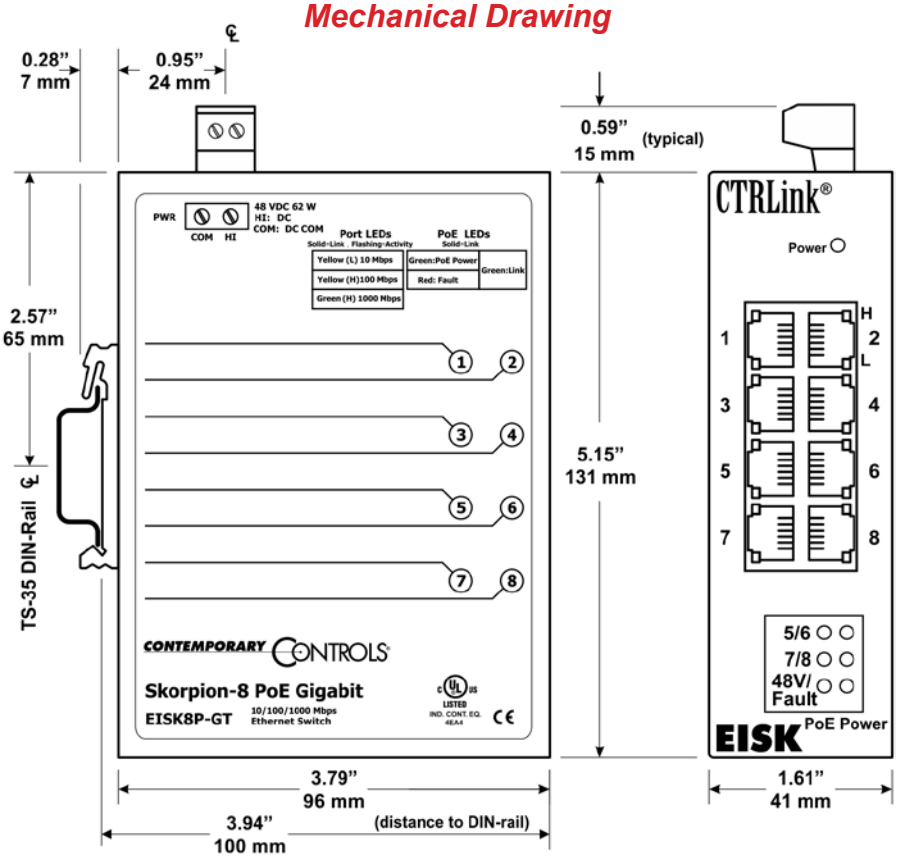
c UL us LISTED IND. CONT. EQ. 4EA4 CE RoHS

RJ-45 Connector Pin Assignments

Pin	Function	**PoE Power**
1	BI_DA+	+48 VDC
2	BI_DA–	+48 VDC
3	BI_DB+	48 VDC Return
4	BI_DC+	
5	BI_DC–	
6	BI_DB–	48 VDC Return
7	BI_DD+	
8	BI_DD–	



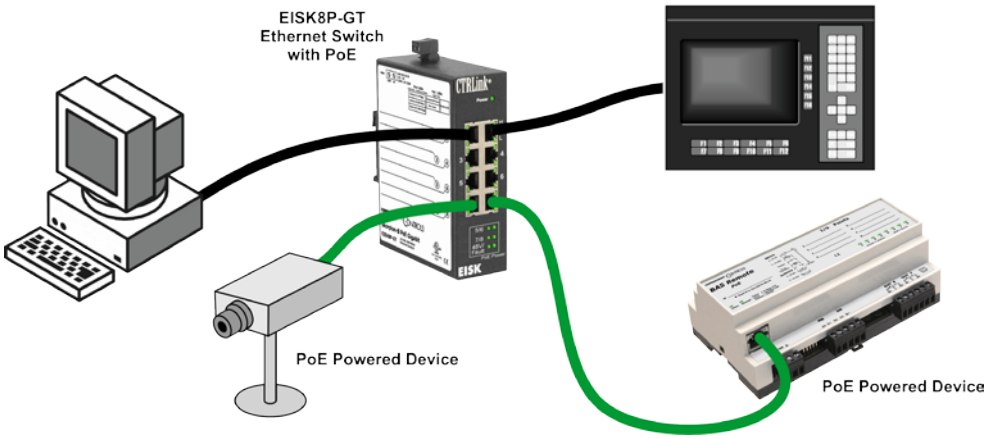
Mechanical Drawing



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. Both power input terminals are isolated from chassis (earth). Input connections are reverse-polarity protected. Input voltage should be sourced from an isolated Class 2 power supply in order to comply with the IEEE 802.3af and UL 508 specifications.

Typical Switch Installation



Ordering Information

Model	*Description*
EISK8P-GT	8-port 10/100/1000 Mbps Skorpion Ethernet switch with four PoE ports

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