

EISK8 Skorpion Fiber Switches Cost Effective, 100 Mbps-speed — Compact Size

EISK8 Skorpion fiber switches are eight-port unmanaged Ethernet switches that provide 100 Mbps performance on all ports to accommodate a range of control devices and workstations commonly found in an automation project. For 10 Mbps legacy devices, the switches automatically reduce port-speed. These low-cost compact units have a rugged metal enclosure and are intended for installation in control panels using DIN-rail mounting.

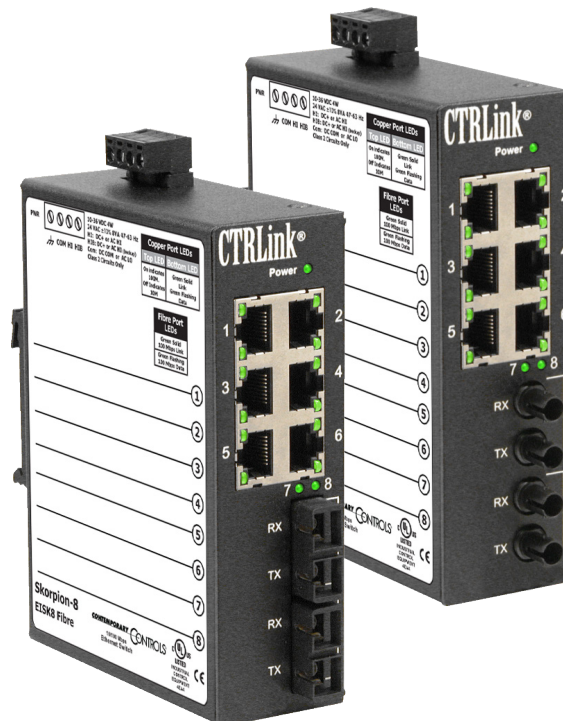
The switch supports plug-and-play operation and requires no configuration. All copper ports automatically configure

their data rate and duplex using the Auto-negotiation protocol. Depending on the capability of the link partner, communication is set at 10 or 100 Mbps and at either half- or full-duplex. Each copper port accommodates either a straight-through or crossover cable using the Auto-MDIX protocol. The fiber ports are fixed at 100 Mbps full-duplex operation.

Each unit is powered from a low-voltage source (either AC or DC). Redundant power connections are provided for back-up power schemes. LEDs assist in troubleshooting.

EISK8-100T/F Ethernet Switch Features ...

- Plug-and-Play operation
- 10BASE-T/100BASE-TX/100BASE-FX
- Shielded RJ-45 connectors
- Choice of fiber connectors
- Auto-negotiation of speed and duplex on copper ports
- Auto-MDIX supports cable inversion on copper ports
- DIN-rail mounting
- Rugged metal enclosure
- Diagnostic LEDs
- Enhanced EMC compliance
- UL 508 listed, c-UL listed, CE mark
- 24 VAC/VDC powered



Overview

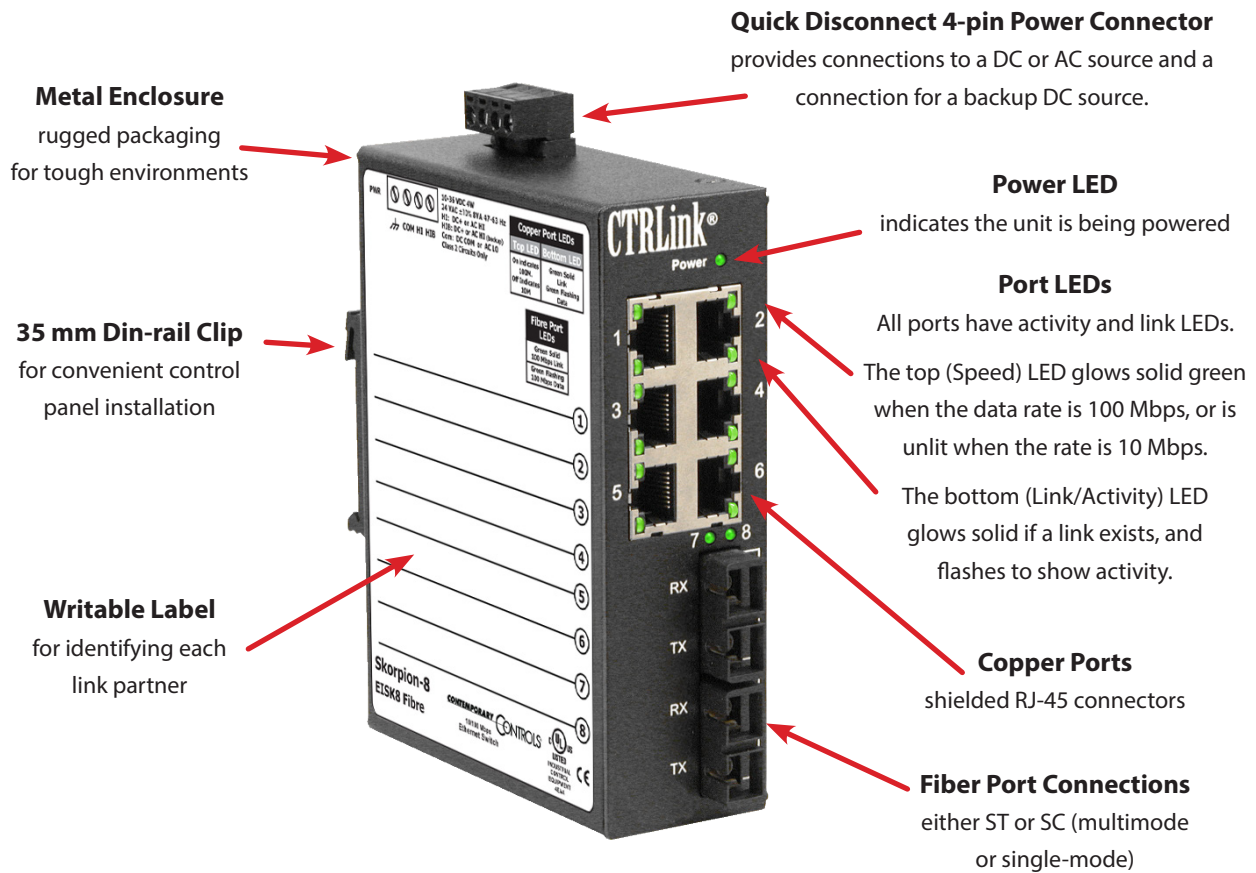
The Skorpion Switch is intended for control panel installations where DIN-rail space is at a premium by requiring a width of only 41 mm of rail space. A metal DIN-rail clip attached to the aluminium enclosure can survive the toughest installation. A writable side label allows the installer an opportunity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

Each unit is powered from either a 10–36 VDC or 24 VAC ($\pm 10\%$) source. A half-wave rectified low-voltage power supply allows the sharing of power with other 24 VAC/VDC control devices from a common power supply. With

redundant power connections, a backup power scheme can be supported. A removable power connector facilitates the servicing of the unit.

LEDs built into each RJ-45 connector indicate data rate and activity on each copper port — greatly assisting in troubleshooting.

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



Specifications

Power Requirements	10–36 VDC 4 W or 24 VAC $\pm 10\%$ 8 VA 47–63 Hz
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 802.3 10/100 Mbps data rate using RJ-45 connectors, 100 m (max)
LEDs	<div> <div>Power</div> <div>Green = power on</div> </div> <div> <div>Speed</div> <div>Green = 100 Mbps link Off = 10 Mbps link</div> </div> <div> <div>Link/Activity</div> <div>Green = Link established Flashing = Data transmission</div> </div>

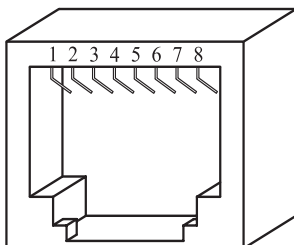
Regulatory Compliance

CE Mark; CFR 47, Part 15 Class A;
RoHS; UL 508 Industrial Control
Equipment; EN55032; EN55035

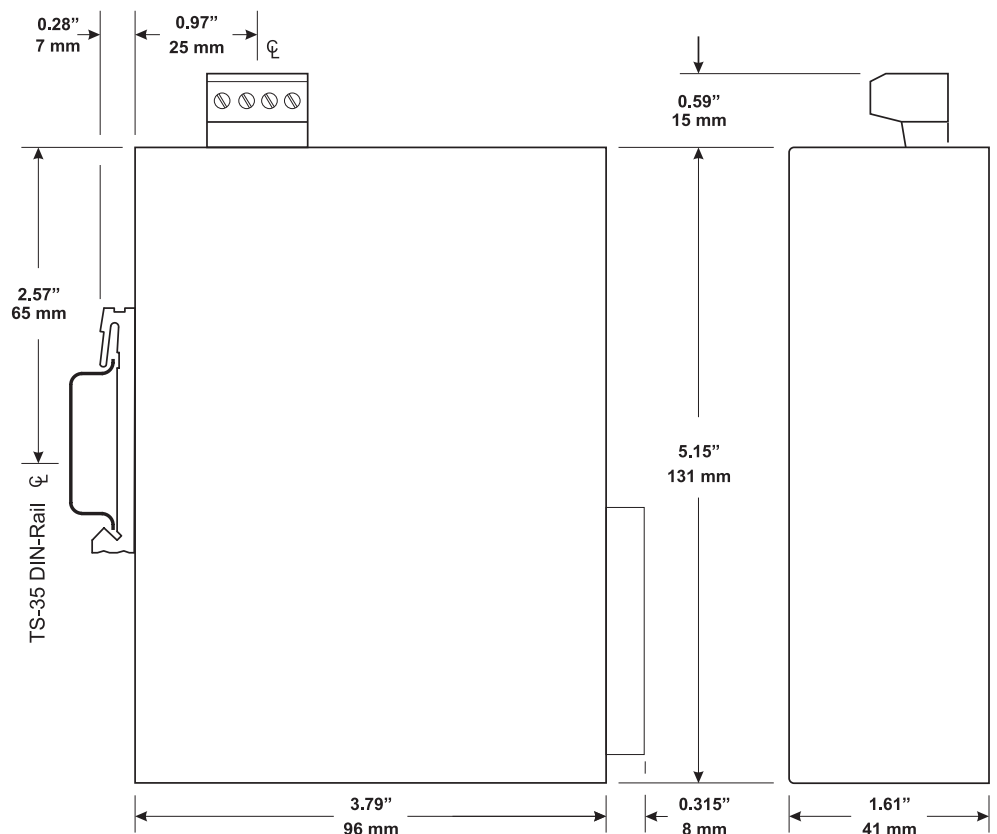


RJ-45 Connector Pin Assignments

Pin	Function
1	TD+
2	TD–
3	RD+
4	Not Used
5	Not Used
6	RD–
7	Not Used
8	Not Used



Mechanical Drawing



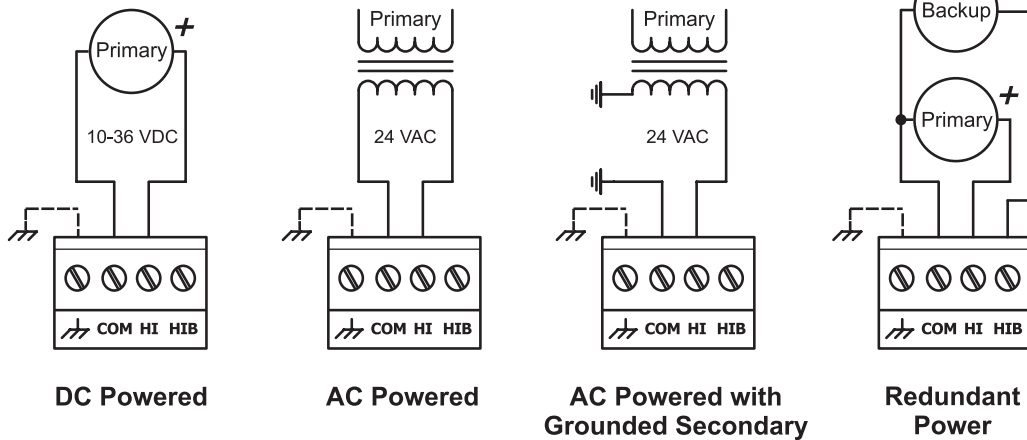
Power Considerations

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. Zero volts (COM) is isolated from chassis (earth). Input connections are reverse-polarity protected.

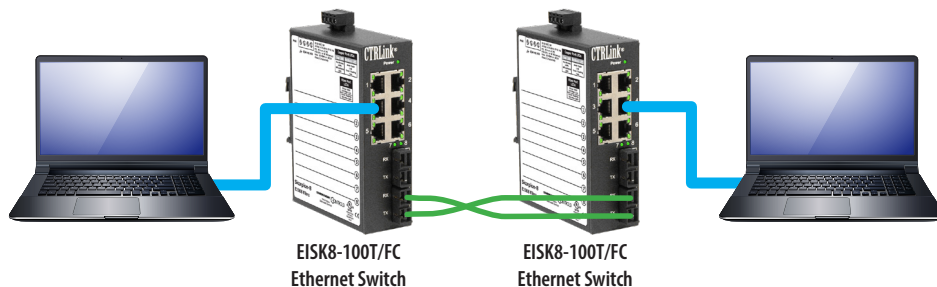
Input power: 10–36 VDC or 24 VAC \pm 10%, 47–60 Hz.

Connecting chassis to earth or using a backup source is always optional.

All options shown are for use in Class 2 circuits.



Typical Switch Installations



Ordering Information

Model	Description
EISK8-100T/FC	Skorpion 6-Port 10/100Mbps 2-Port MM SC-fiber Switch
EISK8-100T/FCS	Skorpion 6-Port 10/100Mbps 2-Port SM SC-fiber Switch
EISK8-100T/FT	Skorpion 6-Port 10/100Mbps 2-Port MM ST-fiber Switch
EISK8-100T/FTS	Skorpion 6-Port 10/100Mbps 2-Port SM ST-fiber Switch

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