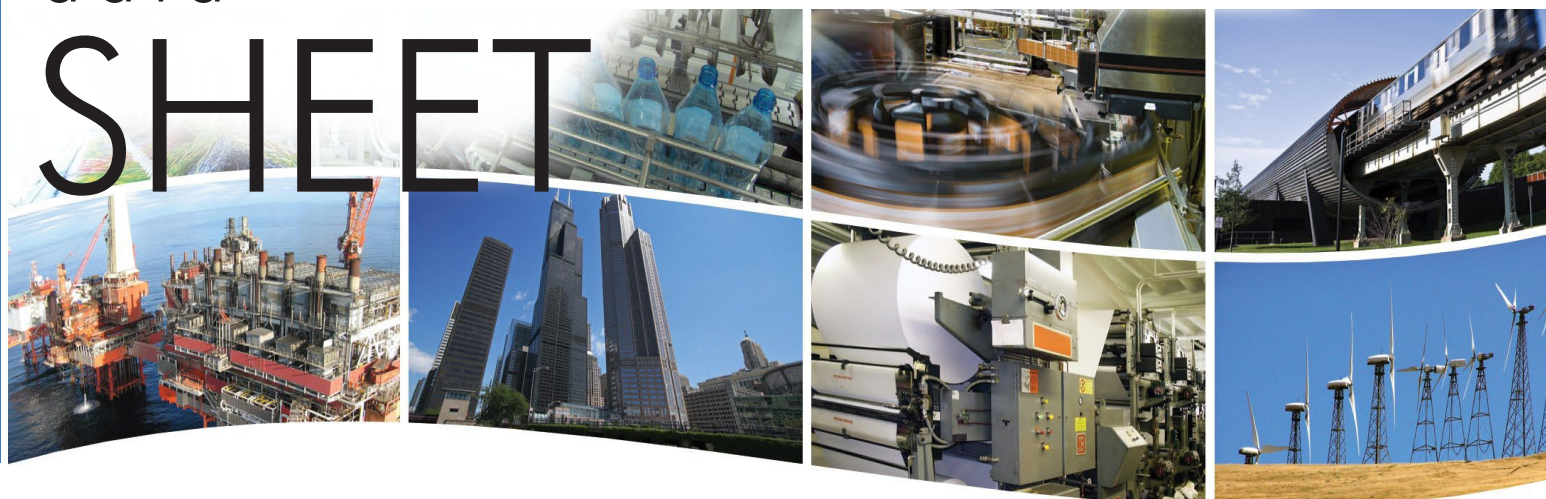


data

SHEET



Compact Ethernet Switch — Industrial Temperature

The EICP Series offers a compact rugged 10/100 Mbps Ethernet switch with a choice of eight copper ports or a mix of six copper and two fibre ports. The units are extremely compact and intended for use where indoor temperatures are expected. Fibre optic distances up to 15 km are possible with the single-mode option. Each unit can be powered from a low-voltage AC or DC source.



EICP9-100T

Features

- Choose all 10/100 Mbps copper ports or add two fibre ports
- Single-mode fibre distances up to 15 km
- Industrial temperature range: 0°C to +60°C
- 10–36 VDC or 8–24 VAC powered
- LEDs for link/activity, data rate and power
- UL and C-UL listed, CE Mark, RoHS compliant



EICP8-100T/FC

CTRLink®

Product Overview

The EICP Series provides standard plug-and-play features such as auto-negotiation and Auto-MDIX — allowing for quick and simple installation. However, these features plus full-duplex can be individually set for each copper port.

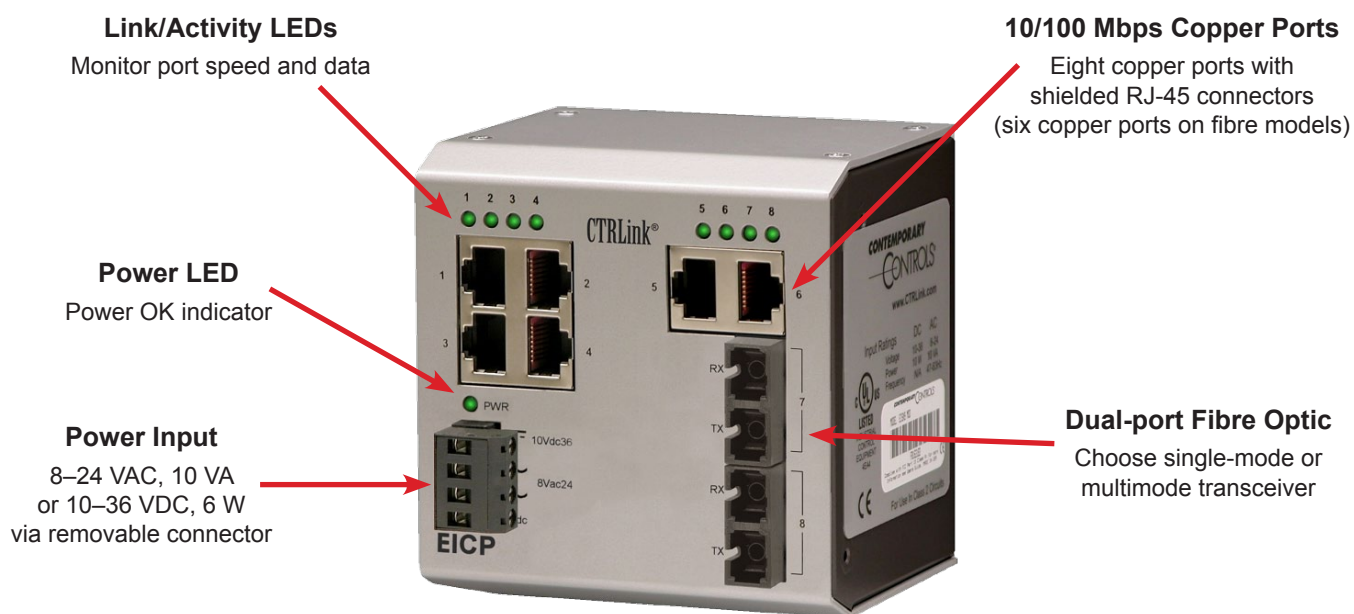
Three models offer two fibre ports. You can choose single-mode transceivers with SC connectors (providing 15 km cable distance) or multimode transceivers with either SC or ST connectors.

The copper ports can auto-negotiate 10 Mbps, 100 Mbps, half- or full-duplex. With Auto-MDIX, either straight-through or crossover cables may be used to

connect any of the copper ports to similar ports on another switch.

In addition to one power LED, each port has LEDs showing link/activity/data rate by colour: green for 100 Mbps and yellow for 10 Mbps. Flashing indicates port activity.

The EICP Series can be DIN-rail mounted or directly mounted to a panel. There are several low-voltage AC or DC powering options from 8–24 VAC or from 10–36 VDC. Provisions exist for redundant power connections.



Specifications

Power Requirements

10–36 VDC, 6 W or 8–24 VAC, 10 VA, 47–63 Hz (see last page for details)

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 or panel mount

Shipping Weight

1 lb (0.45 kg)

Ethernet Communications

IEEE 802.3 10/100 Mbps data rate

10BASE-T, 100BASE-TX physical layer, 100 m (max) CAT5 cable length

100BASE-FX physical layer, 15 km (max) single-mode [2 km (max) multimode]
fibre optic cable length

LEDs

Power Green = power OK

Link Yellow = 10 Mbps
Green = 100 Mbps
Flashing = Activity

Regulatory Compliance

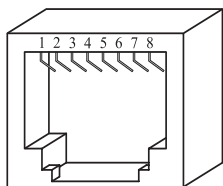
CE Mark; CFR 47, Part 15 Class A; RoHS;
UL 508 Listed Industrial Control Equipment



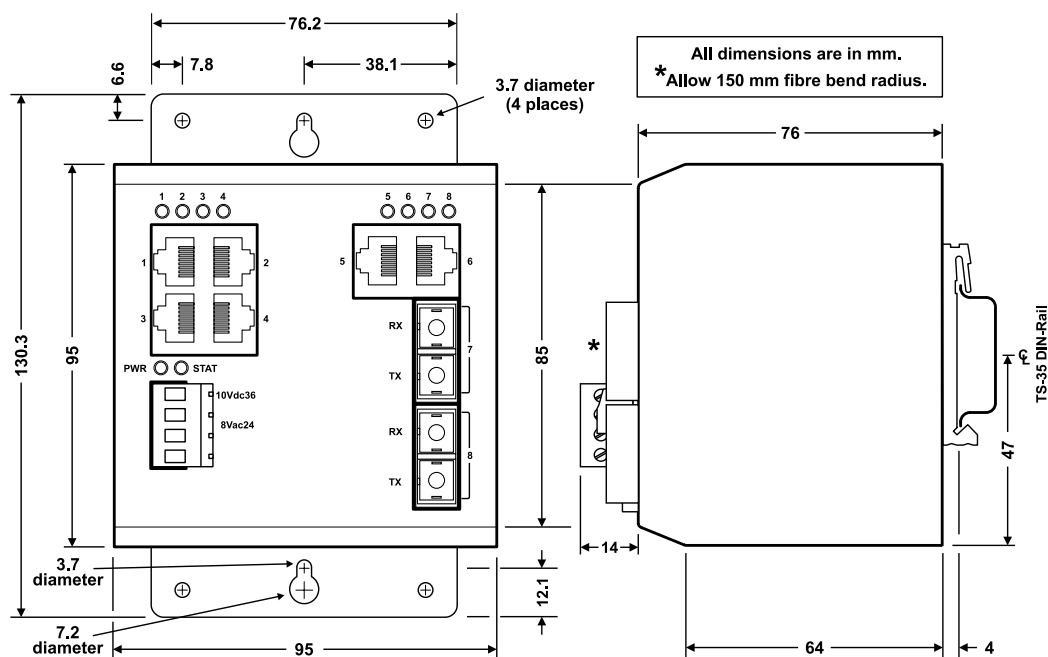
RJ-45 Connector Pin Assignments

Ethernet

Pin	Function
1	+TD
2	–TD
3	+RD
4	N/C
5	N/C
6	–RD
7	N/C
8	N/C



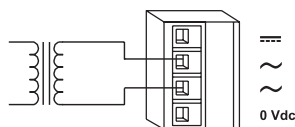
Mechanical Drawing



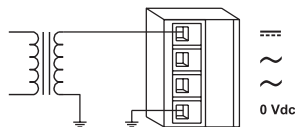
Optional Panel Mounting Bracket
(depicted above) is included.

Standard DIN-Rail Mounting Bracket
(depicted above) is pre-attached.

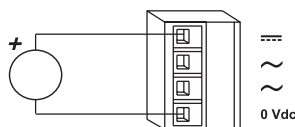
Power Diagrams



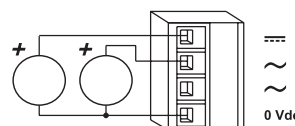
AC Powered



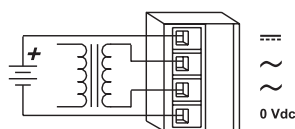
AC Powered with Grounded Secondary



DC Powered



Redundant DC Powered



AC Powered with Battery Backup

The EICP Series incorporates a full-wave rectifier requiring an 8–24 VAC input from a dedicated transformer whose secondary is not grounded. Power requirements are 10 VA maximum. Sharing the same power source with other devices is not recommended.

The unit can also be powered through a half-wave rectifier which allows the sharing of the same transformer with other half-wave devices. In this case, the transformer secondary is referenced to the unit's 0 Vdc pin and could be grounded as well. For half-wave operation, the AC input should be 24 VAC \pm 10%. Power requirements will increase to about 12 VA maximum.

For DC operation in the range of 10–36 VDC, connect as shown. Power consumption is 6W maximum.

A redundant DC power arrangement is possible as shown. Verify that each power source can deliver the same range of voltage and power as in the DC Powered example.

Mixing of AC and DC sources is possible in order to achieve battery backup when AC is the primary source. In this case the transformer secondary must be floating.

Ordering Information

Model	RoHS	Description
EICP9-100T	✓	Nine-port 10BASE-T/100BASE-TX compact switch
EICP9-100T/FC	✓	Eight-port 100BASE-TX/one-port 100BASE-FX (multimode) switch, SC connectors
EICP9-100T/FCS	✓	Eight-port 100BASE-TX/one-port 100BASE-FX (single-mode) switch, SC connectors
EICP9-100T/FT	✓	Eight-port 100BASE-TX/one-port 100BASE-FX (multimode) switch, ST connectors
EICP8-100T/FC	✓	Six-port 100BASE-TX/two-port 100BASE-FX (multimode) switch, SC connectors
EICP8-100T/FCS	✓	Six-port 100BASE-TX/two-port 100BASE-FX (single-mode) switch, SC connectors
EICP8-100T/FT	✓	Six-port 100BASE-TX/two-port 100BASE-FX (multimode) switch, ST connectors

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