

CopperLink™ Industrial GigE 90W PoE Injector with Power Boost

Model CL141E/BT90



Industrial gigabit high power PoE injector with voltage booster accepts 24–56 VDC and boosts it to 55 VDC for 90-watt high power PoE applications.

Extended Operating Temperature
-40 to 167°F (-40 to 75°C) ambient temperature range

Flexible Mounting Options
Wall mount, DIN rail or desktop.

Rugged
Meets tough EN60068 standards for Free Fall, Shock and Vibration

Redundant Power Input
Wide-Range 24 to 56-VDC power input

Plug and Play
Auto-sensing network speeds and PoE-compliant power negotiation makes this product incredibly easy to use

TAA Compliant
Top-notch quality and reliability with local support.

Patton's CL141E/BT90 is an industrial all-in-one gigabit high power PoE injector and power booster. Our power boost technology allows low input voltages, such as 24–48 VDC to be boosted up to the required IEEE802.3bt PoE requirements of 55 VDC.

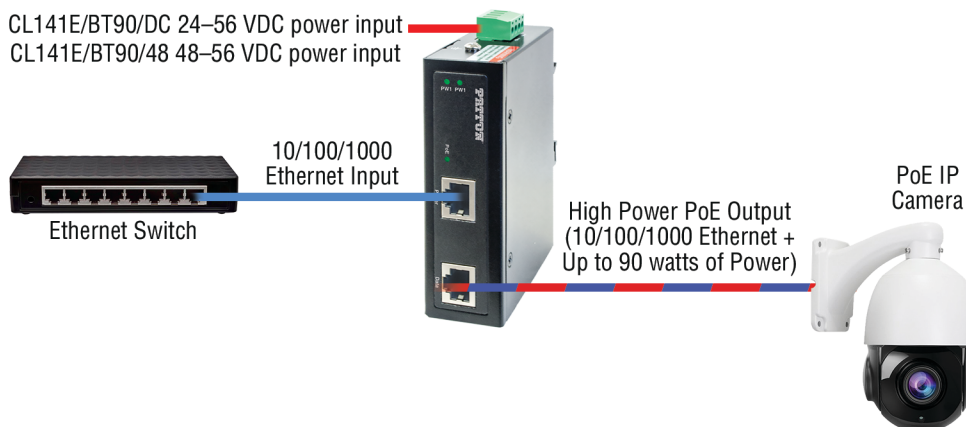
This is a perfect PoE injector for use in light industrial environments. The CL141E/BT90 is housed in an IP30-rated DIN-rail or wall-mount enabled enclosure, and has a wide operating temperature of -40 to 167°F (-40 to 75°C). Its rugged design, wide temperature and power input range makes it an ideal model for security, building automation, transportation and telco applications.

The CL141E/BT90 is very simple to use, completely plug and play. LEDs will make it clear when power is detected on the power inputs, when PoE is being delivered, and whether you are in PoE Mode A or Mode B. This is a PoE-compliant device, so the amount of power is negotiated automatically by the injector. Should the device you are connecting to not be PoE-enabled, the CL141E/BT90 will detect this and not pass power to the connected device.

Visit patton.com to view our huge selection of network connectivity products and more.



DIN Rail mounting



CL141E/BT90 application

CopperLink™ CL141E/BT90 Industrial GigE 90W PoE Injector with Power Boost

Specifications*

Ethernet Interfaces

1xRJ-45 10/100/1000BaseT(X)
Data input

1xRJ-45 10/100/1000BaseT(X)
Data with PoE output

Auto MDI-X / MDI crossover

Auto Negotiation, 10/100/1000
Mbps

Auto-Negotiation, Full or Half Du-
plex

IEEE Standards

IEEE 802.3 10Base-T Ethernet

IEEE 802.3u 100Base-TX Fast
Ethernet

IEEE 802.3ab 1000Base-T Gigabit
Ethernet

IEEE802.3af for PoE

IEEE802.3at for PoE+

IEEE802.3bt for high power PoE
95W power over HDBaseT (PoH)

Management

Plug and Play operation

LEDs:

- PW1 (Green): ON—Power is detected
- PW2 (Green): ON—Power is detected
- PoE ON: PoE is active; OFF: PoE is idle

Physical

4.07L x 1.26W x 3.21D inches
(103.5L x 32W x 81.5D mm)

Unit Weight: 2.5 lbs (1.13 kg)

Shipping Weight: 3.0 lbs (1.36 kg)

Environmental

Ambient Temperature

Operating: -40 to 75°C (-40 to
167°F)

Storage: -40 to 85°C (-40 to
185°F)

Relative Humidity

5 to 95% non-condensing

Protection Class

IP30

Power Input Connector

Removable 4 pin terminal block

Wire range: 0.34 to 2.5 mm²

Solid wire (AWG): 12-24/14-22

Stranded wire (AWG): 12-24/14-
22

Torque: 5lb-In/0.5Nm/0.56Nm

Wire Strip length: 7–8 mm

PoE PIN Assignment

Pin 1 (V-), 2 (V-), 3 (V+), 6 (V+)

Pin 4 (V+), 5 (V+), 7 (V-), 8 (V-)

Regulatory Approvals

EMC/EMS

CE, FCC, VCCI

Safety

- UL 60950-1

- IEC EN60950-1

Free Fall: EN60068-2-32

Shock: EN60068-2-27

Vibration: EN60068-2-6

Power Supply

2 x Redundant power source

24–56 VDC power input (CL141E/
BT90x/DC)

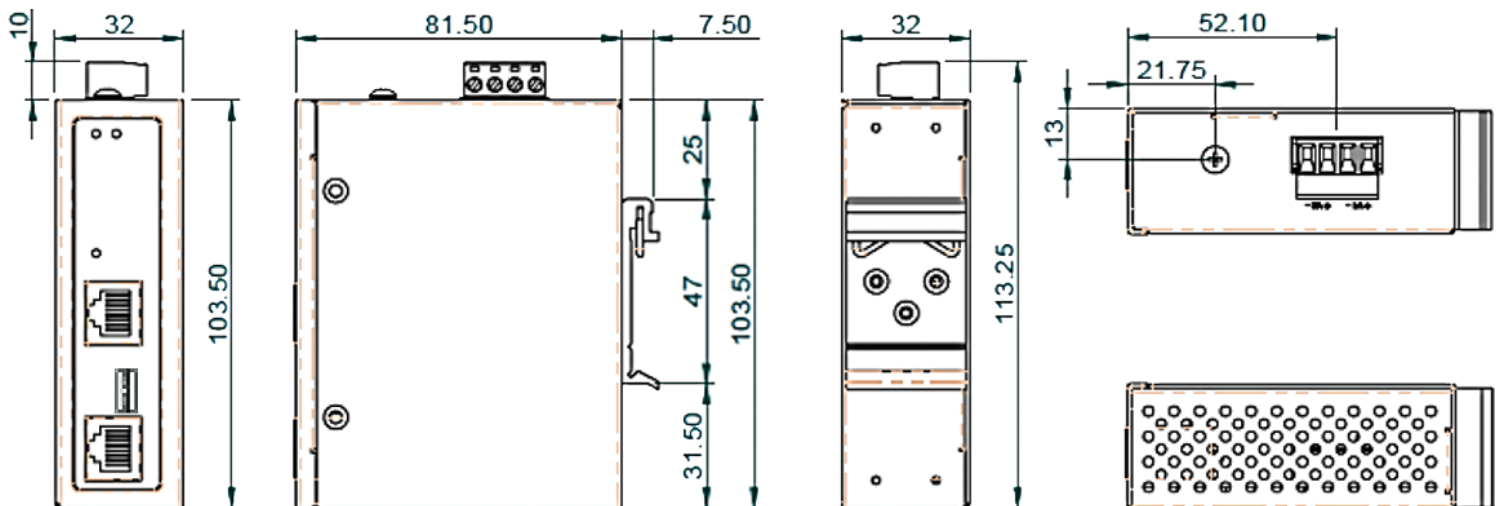
48–56 VDC power input (CL141E/
BT90x/48)

Power Consumption

5 watts at 52 VDC full load, with-
out PoE

Max PoE Power

90 watts



Specifications subject to change without notice



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