CopperLink™ Industrial GigE 60W PoE Injector with Power Boost

Model CL141E/BT60

Industrial Gigabit PoE+ Injector with voltage booster accepts 24–56 VDC and boosts it up voltage to 55 VDC for 60-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

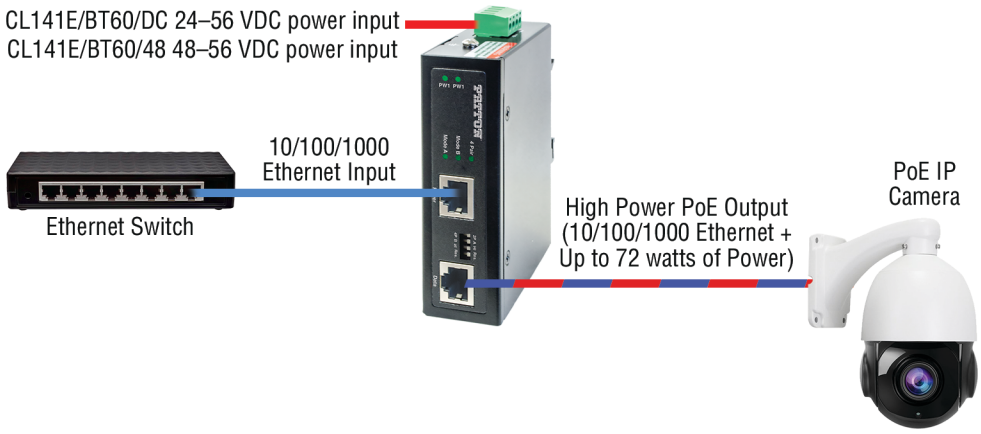
Top notch quality and reliability with local support.

Patton's CL141E/BT60 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/BT60 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/BT60 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/BT60 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.



CL141E/BT60 application

PATTON® let's Connect!™

CopperLink™ CL141E/BT60 Industrial GigE 60W 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 Duplex

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

Management
Plug and Play operation

LEDs:

- PW1 (Green): ON—Power is detected
- PW2 (Green): ON—Power is detected
- Mode A (Green): End-Span detected
- Mode B (Green): Mid-Span detected
- 4 Pair (Amber): ON—60W PSE is in active mode; OFF—30W PSE is in active mode

Power Input Connector
Removable 4 pin terminal block

Wire range: 0.34 to 2.5 mm^2

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
Mode A model (End Span): V+, V+, V-, V- for pins 1, 2, 3, 6

Mode B model (Mid Span): V+, V+, V-, V- for pins 4, 5, 7, 8

DIP Switch
DIP1:

- ON—4 pair (60/72 watts) (default)
- OFF—2 pair (30/36 watts)

DIP2:

- ON—Mode B Mid-Span
- OFF—Mode A End-Span (default)

DIP3:

- ON—IEEE802.3at 30 watts
- OFF—High power 36 watts (default)

DIP4: Reserved

Power Supply
2 x Redundant power source

24–56 VDC power input (CL141E/BT60x/DC)

48–56 VDC power input (CL141E/BT60x/48)

Power Consumption
1 watt at 24/48 VDC full load, without PoE

Max PoE Power: 72 watts

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

Unit Weight: 2.5 lb (1.13 kg)

Shipping Weight: 3.0 lb (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

Regulatory Approvals
EMC/EMS

CE, FCC, VCCI

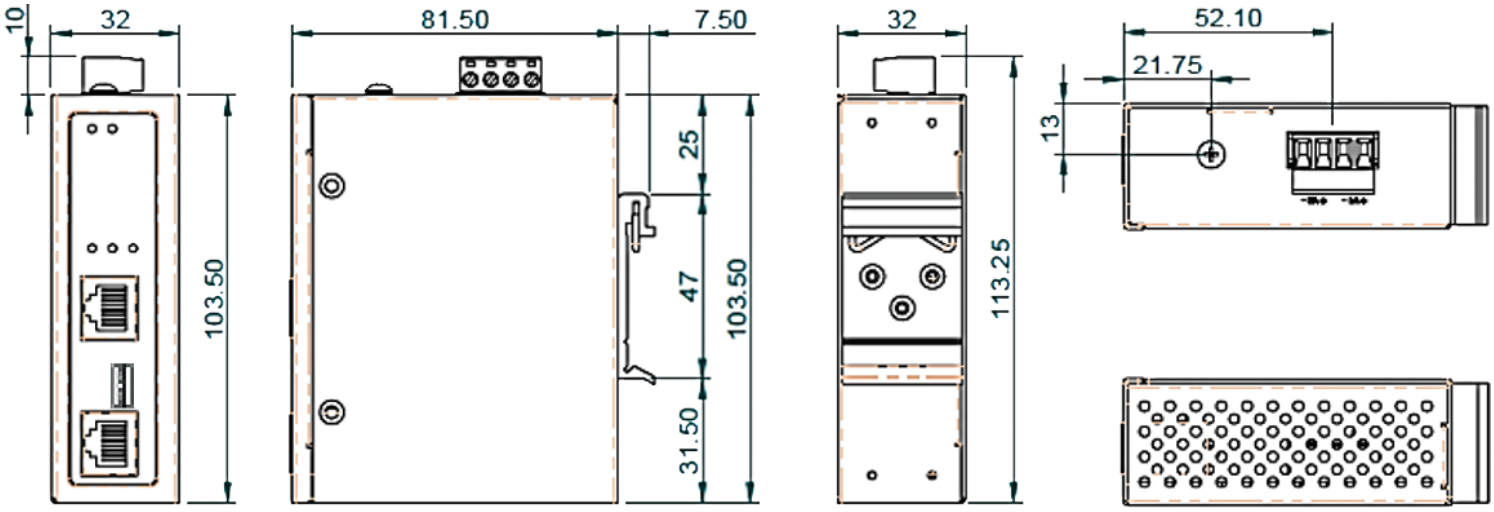
Safety

- UL 60950-1
- IEC EN60950-1

Free Fall: EN60068-2-32

Shock: EN60068-2-27

Vibration: EN60068-2-6



Specifications subject to change without notice

Patton Electronics Co.
7622 Rickenbacker Drive
Gaithersburg, Maryland 20879, USA
Phone **+1 301 975 1000**
Fax **+1 301 869 9293**
E-mail **sales@patton.com**
Web **www.patton.com**

Patton-Inalp Networks AG
Meriedweg 7
CH-3172 Niederwangen, Switzerland
Phone **+41 (31) 985 25 25**
Fax **+41 (31) 985 25 26**
E-mail **we@patton.com**
Web **www.patton.com**

Patton Hungary Zrt
Gábor Dénes utca 4., Infopark Building C
Budapest H-1117, Hungary
Phone **+36 1 439 4840**
Fax **+36 1 439 4844**
E-mail **ce@patton.com**
Web **www.patton.com**