CopperLink™ Industrial GigE 30W PoE Injector with Power Boost
Model CL141E/AT

Industrial Gigabit PoE+ Injector with voltage booster accepts 12–56 VDC and boosts it up to 55 VDC for 30-watt 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 12, 24, or 48-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

P atton's CL141E/AT is an Industrial all in one Gigabit PoE+ injector and power booster. Our power boost technology allows low input voltages, such as 12, 24, or 48 VDC to be boosted up to the required IEEE802.3af/at PoE requirements of 55 VDC.

This is a perfect PoE injector for use in light industrial environments. The CL141E/AT 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/AT is very simple to use, completely plug and play. LEDs will make it clear when power is detected on the power inputs, and when PoE is being delivered. 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/AT 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
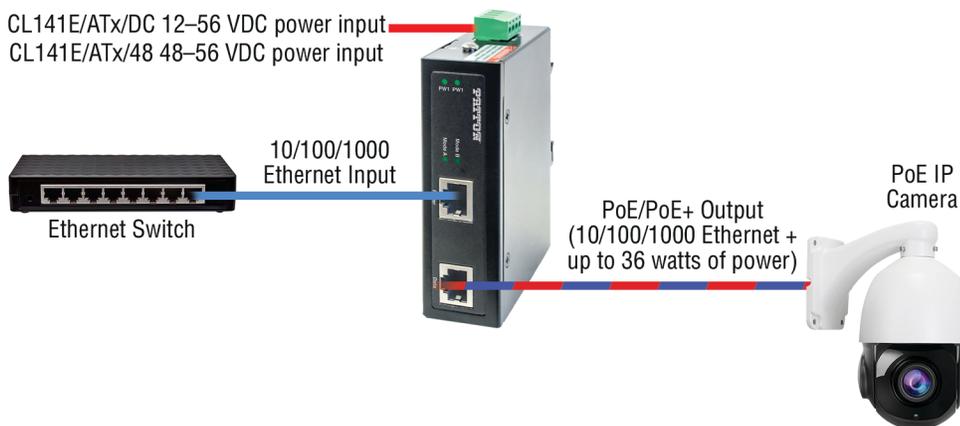
CL141E/ATx/DC 12–56 VDC power input
CL141E/ATx/48 48–56 VDC power input

10/100/1000 Ethernet Input

Ethernet Switch

PoE/PoE+ Output
(10/100/1000 Ethernet + up to 36 watts of power)

PoE IP Camera

CL141E/AT application

PATTON®
let's Connect!™

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+

Management
Plug and Play operation

LEDs:
- PW1 (Green): ON—Power is detected
- PW2 (Green): ON—Power is detected
- Mode A (Green): For End-Span PoE power 1, 2, 3, 6
- Mode B (Green): Reserved

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 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 (CL141E/ATA/x): V+, V+, V-, V- for pins 1, 2, 3, 6

Mode B model (CL141E/ATB/x): V+, V+, V-, V- for pins 4, 5, 7, 8

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

12–56 VDC power input (CL141E/ATx/DC)

48–56 VDC power input (CL141E/ATx/48)

Power Consumption
1 watt at 12/24/48 VDC full load, without PoE

Max PoE Power

36 wattsv
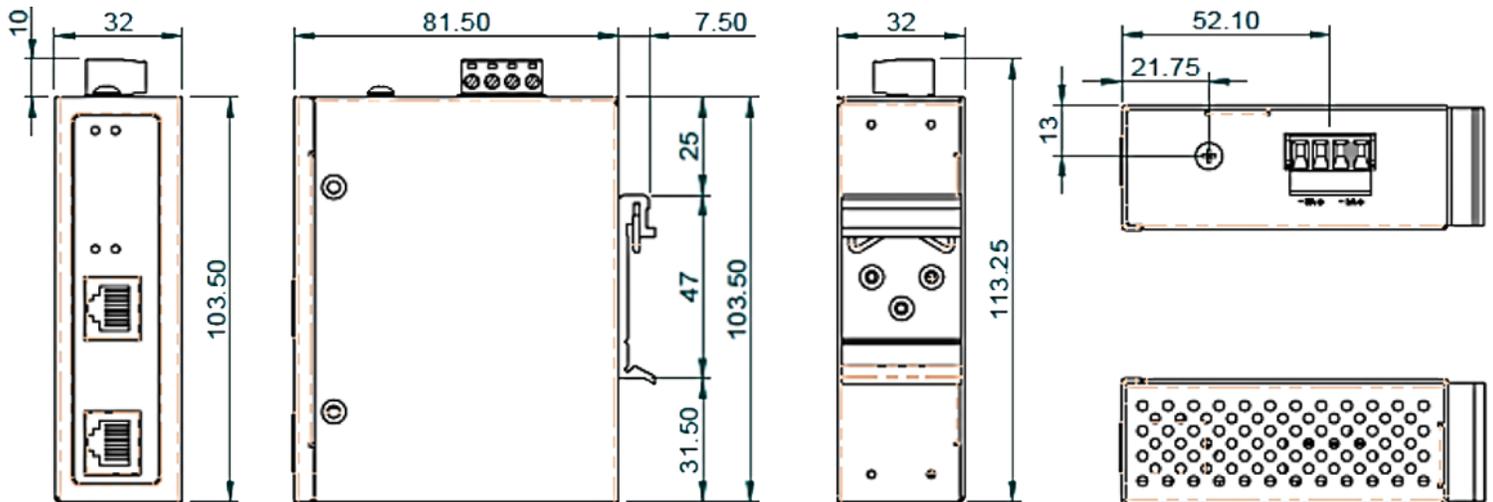
Specifications subject to change without notice

50000123, Rev. 1