

# POE1XT Single-Port PoE Gigabit Extender

## EXTENDS POWER OVER ETHERNET AND ETHERNET DATA TO 200 METERS

### Product Features

- Powered by an IEEE802.3at Source
- Output is IEEE802.3af Compliant
- Fully Compliant 25K Signature Resistance Detection (IEEE802.3at and IEEE802.3af)
- Boost Circuit to Compensate for Wire Drops
- Diagnostic LEDs
- Full Protection
  - Over Current Protection (OCP)
  - Short Circuit Protection (SCP)
- Extends Ethernet to 200 Meters (656.17 Feet)



The **POE1XT** is a single-port Power over Ethernet (PoE) Gigabit extender that is designed to meet the demanding data rate and power requirements of IP cameras with high-quality streaming video capabilities. The **POE1XT** provides a voltage boost to the PoE adding another 100 meters to extend Ethernet to 200 meters (656.17 feet).

The **POE1XT** Gigabit extender accepts power from an IEEE802.3at source and is 25K signature resistance detection IEEE802.3at input compliant. DC input voltage range is 45 to 57 VDC. DC input current at maximum load is 1.0 A at 45 VDC and 0.8 A at 57 VDC. Total output power is 19 W with a 33.6 W PoE input and is 25K signature resistance detection IEEE802.3af output compliant.



**IMPORTANT NOTE: PLEASE READ.** The network implementation shown is a general representation depicting the 100 meter (328 feet) limit of PoE from the switch or midspan to the extender. It also depicts the additional 100 meters (328 feet) the extender provides to the powered device extending PoE to 200 meters (656.17 feet). Note that the POE1XT is powered by an 802.3at source and supplies an 802.3af output. Contact the local Pelco representative to discuss specific application requirements.

# TECHNICAL SPECIFICATIONS

## MODEL

POE1XT Single-Port PoE Gigabit extender powered by IEEE802.3at source

## ELECTRICAL

### Input (802.3at)

Input Source Receives power from an IEEE802.3at source  
 Input Detection 25K detection IEEE802.3at compliance  
 DC Input Voltage Range 45 VDC to 57 VDC  
 DC Input Current 1.0 A at 45 VDC and maximum load  
 0.8 A at 57 VDC and maximum load

### Output (802.3af)

Total Output Power 19 W with 33.6 W PoE input  
 DC Output Voltage 54 V minimum, 56 V typical, 57 V maximum  
 Output Current 10 mA minimum, 330 mA maximum  
 Ripple and Noise (Vp-p) 250 mV maximum  
 Output Detection 25K detection IEEE802.3af compliance  
 Efficiency 75% minimum at maximum load  
 Short Circuit Protection Outputs equipped with short circuit protection; the output can be shorted permanently without damage  
 Over Current Protection 450 mA maximum for PoE Class 0-3 detection on output

### Power Consumption

Power Consumed by POE1XT 5 W maximum

### Connection

Input/Output Connectors RJ-45  
 Input Connection  
   GND Pins 1,2 7,8  
   +VIN Pins 3,6 4,5  
 Output Connection  
   GND Pins 1,2  
   +VIN Pins 3,6

## FRONT PANEL INDICATORS/FUNCTIONS

### Ethernet IN/OUT

Status/Color	Description
Green LED1 and LED2	10 Megabit (Mb) activity
Green LED1	100 Mb activity
Green LED2	1 Gigabit (Gb) activity
Orange LED3	Link activity

### PoE


Status/Color	Description
Blinking Green	Unit is powered ON with no active load
Solid Green	Unit has detected a valid IEEE802.3af load
Blinking Red/Green	Unit has detected an invalid load
Solid Red	Unit is in over-load condition

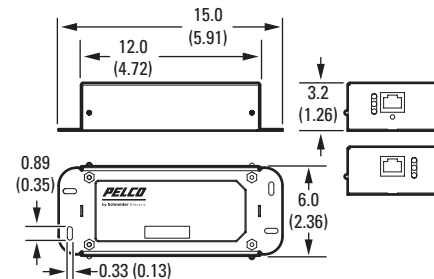
## ENVIRONMENTAL

Operating Temperature  
 Megabit Data Rates at 10 Mb and 100 Mb 0° to 55°C (32° to 131°F)  
 Gigabit Data Rates 0° to 40°C (32° to 104°F)  
 Storage Temperature -25° to +65°C (-4° to 149°F)  
 Maximum Humidity Gradient 5% to 90%  
 Immunity  
   ESD EN61000-4-2, Level 3  
   RS EN61000-4-3, Level 3  
   Surge EN61000-4-5, Level 2  
 Isolation (HI-POT) 2,121 VDC for 1 minute, 10 mA  
 Insulation Resistance  
   Input to Ground >10 MOHM 500 VDC  
   Output to Ground >10 MOHM 500 VDC

## CERTIFICATIONS

- CE, EN55022 Class A
- FCC, Part 15, Class A

 VALUES IN PARENTHESES ARE INCHES; ALL OTHERS ARE CENTIMETERS.



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