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

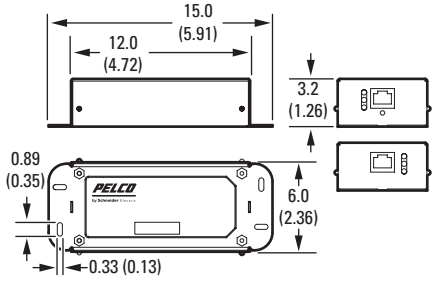
ENVIRONMENTAL

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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