

## Power Over Ethernet PoE Midspan Injector Category 6 1 Port 802.3at Type B Outdoor w/ Lightning Protection & Power Supply 48 Volts 48 Watts

### PI-1C6-ATB-LPOD-4870 PoE Injector



#### Features

- IEEE 802.3at compatibility
- Includes 48VDC @ 70 Watt power supply
- Midspan type PoE injector with Type B wiring
- Rugged die cast aluminum enclosure in weatherproof box
- 1 port design
- Lightning and surge protection included

#### Applications

- IP Cameras
- VoIP (Voice over Internet Protocol) Telephones
- Access points, bridges, amplifiers and amplified antennas
- Building and control systems
- Digital signage
- Network switches
- Lighting systems
- Traffic systems
- Smart home and building
- POS systems

#### Description

Transtector's PI-1C6-ATB-LPOD-4870 outdoor Single-port Gigabit Category 6 (Cat 6) Midspan/Injector is a commercial grade Power-over-Ethernet device that provides DC or AC power for one 10/100/1000 Base-T Power-over-Ethernet, PoE equipped network device. PoE is used to supply power to devices such as Cameras, Access Points, IP Phones, and the like eliminating the need for an outlet near the devices and extra power cables. The unit uses Gigabit transformers on all four data pairs in contrast to cheaper designs that only use transformers for two pairs. It is compatible with devices that support the IEEE 802.3af and 802.3at standard PoE power feed using Mode B (Pins 4/5 and 7/8). The unit supports both positive and negative DC as well as AC power up to 60 volts. An integral PTC fuse cuts power in case of a short. The PTC fuse auto resets after the short is removed. The PI-1C6-ATB-LPOD-4870 features integral surge protection for the data and power feeds for networks. It has been designed to meet the GR-1089 Intra-Building surge protection requirements for Ethernet lines. The design provides protection for both common and differential mode surges utilizing three-pole differential Gas Tubes. The tubes feature ultra-low Line to Line and Line to Ground capacitance to minimize distortion of high-speed signals. The PI-1C6-ATB-LPOD-4870 features shielded RJ45 jacks which helps reduce the effects of EMI interference. A ground lug and terminal is provided directly on the injector providing superior grounding. The compact weather resistant housing features a lockable hinged cover and mounting holes are provided on the rear of the enclosure for mounting if desired. The two cable grommets may be adjusted to cable size and are removable. This kit includes the protector/injector housed in a weatherproof, outdoor rated enclosure and a 48VDC @ 70W power supply (PIPS-48V70W-R25MMDC). Transtector also sells Ethernet surge protection devices and Ethernet cables capable of connecting PoE devices. Check out Transtector's website and buy online today.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Ethernet Connectors		RJ45 Jack		
PoE Version		802.3at		
Ethernet Standard		Category 6, 10/100/1000Base-T		
Max Current			1.5	A

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
[Power Over Ethernet PoE Midspan Injector Category 6 1 Port 802.3at Type B Outdoor w/ Lightning Protection & Power Supply 48 Volts 48 Watts](#)

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**PI-1C6-ATB-LPOD-4870**  
 PoE Injector

Voltage Rating DC (Input)	48	VDC
Voltage Rating DC (Output)	48	VDC
Operating Voltage DC	60	VDC
Operating Voltage AC	60	VAC
Power Connector	2.5mm DC Jack	
Wire Type	Type B	

**Mechanical Specifications**

**Size**

Height	2.81 in	[71.37 mm]
Width	4.03 in	[102.36 mm]
Length	4.75 in	[120.65 mm]
Weight	1.25 lbs	[566.99 g]
Housing Material	Polycarbonate	
Grounding Lug	Yes	
Mounting Type	Mounting Feet	

**Environmental Specifications**

Operating Temperature, Injector	-40 to +70 deg C
Environment Type	Outdoor

Transtector Systems specializes in protection of highly sensitive, low voltage equipment through its patented, non-degrading silicon diode technology and custom filters. Our power quality expertise translates into a diverse product offering including AC, DC, and signal applications as well as integrated cabinets, power distribution panels and EMP hardened devices.

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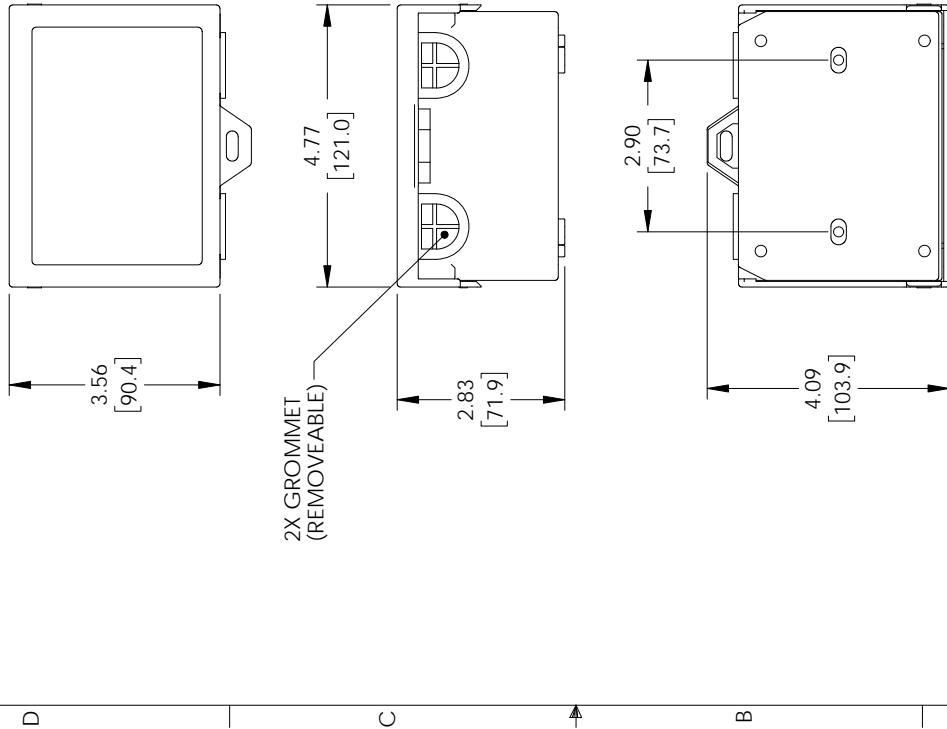
URL: <https://www.transtector.com/poe-injector-category-6-1-port-rj45-jack-pi-1c6-atb-lpod-4870-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Transtector reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Transtector does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Transtector does not assume any liability arising out of the use of any part or documentation.

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Outdoor w/ Lightning Protection & Power Supply 48 Volts 48 Watts

CAD Drawing

REV	DESCRIPTION	DATE	APPROVED
A	CN INITIAL RELEASE	03/13/2020	GUITADARDO
B	ECN 10542: REVISED MODEL	06/05/2021	GUITADARDO



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APPROVALS	DATE	DATE
DRAWN BY DCUI	03/12/2020	03/12/2020
CHECKED BY SPAN	03/12/2020	03/12/2020
APPROVED BY GUITADARDO	03/12/2020	03/12/2020

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES (mm).  
 OVERALL CABLE LENGTH TOLERANCE  
 ≤12 [305] ≤60 [1524] = +1 [25] / -0  
 >12 [305] ≤60 [1524] = +2 [51] / -0  
 >60 [1524] ≤120 [3048] = +4 [102] / -0  
 >120 [3048] ≤300 [7620] = +6 [152] / -0  
 >300 [7620] = +5% / -0

ALL OTHER DIMENSIONAL TOLERANCES:  
 .X = ± .2 [5]  
 .XX = ± .02 [5]  
 .XXX = ± .005 [1.3] ANGLES ± .1°

THIRD-ANGLE PROJECTION

10701 Alirport Road,  
Hayden, ID 83835  
Phone: 1.208.635.6400  
Fax: 1.208.955.2041



ENCLOSURES

PRODUCT DESCRIPTION  
PoE Injector Cat6 1Port 802.3at B w/ LP  
48V70W OD

SIZE	CAGE CODE	ITEM NO.	REV.
A	30992	PI-1C6-ATB-LPOD-4870	B

SCALE: NONE | CAD FILE: PI-1C6-ATB-LPOD-4870.SLDRAW | SHEET 1 OF 1

- NOTE:**
1. COMPONENT ASSEMBLY SHALL BE INDIVIDUALLY PACKAGED
  2. ALL DIMENSIONS FOR REFERENCE ONLY

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