

## HyperLink Brand Passive Power-Over-Ethernet (PoE) Midspan/Injector with Integral High Power CAT5E Surge Protection - Model: BT-CAT5E-P1-HP

### Applications & Features

- Applications:**
- Wireless LAN Access Points and Bridges
  - IP Surveillance Cameras
  - Wired Switches
  - Wireless LAN Amplifiers

- Features:**
- CAT5e and CAT5 compatibility
  - Surge Protection on all lines
  - GR-1089 Intra-Building rated
  - Cable shield isolated from safety ground
  - Up to 60 volts DC or AC power



### Description

The BT-CAT5E-P1-HP Single-Port CAT5E Midspan/Injector (also known as PoE Passive Splitter) is a commercial grade Power-over-Ethernet device that provides DC or AC power for one indoor 10/100 Base-T Ethernet Power-over-Ethernet, PoE equipped Network Appliance device. It is compatible with devices that support the IEEE 802.3af 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. Power-over-Ethernet eliminates the need for an AC outlet at each AP location. Only a single Ethernet cable is run to each AP instead of separate power and data cables.

#### Integral High Power Surge Protection

The BT-CAT5E-P1-HP features integral surge protection for the data and power feeds for networks. The unit has low Line to Line and Line to Ground capacitance to minimize distortion of high-speed signals. The unit eliminates the need for an external surge protector and is designed to provide protection for expensive indoor equipment. The design provides protection for both common and differential mode surges. The BT-CAT5E-P1-HP has been designed to meet the GR-1089 Intra-Building surge protection requirements for 10/100 Base-T Ethernet lines. In addition, the unit is compatible with 802.3af Power-over-Ethernet (PoE) Network Appliance devices. The BT-CAT5E-P1-HP isolates the cable shield from the metal enclosure and the safety ground. This minimizes the chance of a ground loop being introduced. This unit can also be used as a stand alone lightning surge protector.

The BT-CAT5E-P1-HP features shielded RJ45 jacks. This along with the BT-CAT5E-P1-HP's metal housing helps reduce the effects of EMI interference. A ground lug and terminal is provided directly on the injector housing providing superior grounding. The cast aluminum housing includes integral mounting feet for ease of installation.

This unit is available individually or as in a kit version featuring either a 48VDC @ 48 Watt or a 48VDC @ 70 Watt power supply.

**Specifications**

**Electrical Specifications**

<b>Max Voltage</b>	60 Volts AC/DC
<b>Max Current</b>	1.5 A
<b>Power Connector</b>	Standard 2.5mm Coaxial DC Power Jack (2.5mm x 5.5mm x 10mm)
<b>Ethernet Connectors</b>	(2) Shielded RJ45 Jacks
<b>Data Lines</b>	Pair 1: Pins 1 and 2 Pair 2: Pins 3 and 6
<b>Power Lines</b>	+/- VDC: Pins 4 & 5 +/- VDC: Pins 7 & 8
<b>Data Clamping Voltage</b>	Wire – Wire: +/- 15 Volts, Wire – Ground: +/- 90 Volts
<b>Power Clamping Voltage</b>	+/- 80 Volts
<b>Shield Clamping Voltage</b>	+/- 90 Volts

**Mechanical Specifications**

<b>Enclosure Material</b>	Cast Aluminum
<b>Ground Lug</b>	12 AWG Max.
<b>Operating Temp - Injector</b>	-40° C to +70° C
<b>Weight</b>	.28 lbs. (.13 kg)
<b>Dimensions</b>	4.5 x 2.5 x 1.5 (inches) 114.3 x 63.5 x 38.1 (mm)
<b>RoHS Compliant</b>	Yes

