

### OmniConverter® GPoE+/I Unmanaged Gigabit PoE Injector

OmniConverter GPoE+/I is an unmanaged gigabit Ethernet power injector that will extend the Ethernet link distance and adds power over the data lines.

The OmniConverter GPoE+/I features one RJ-45 uplink port and one RJ-45 downlink IEEE 802.3af/at PoE+ port. The uplink and downlink ports support 10/100/1000Mbps data rates and are capable of operating with asymmetric rates.

OmniConverter GPoE+/I provides cost-effective distance extension and connectivity to remote PoE devices where external power is not available or hard to provision, or when replacing copper with fiber becomes cost prohibitive.

The PoE Injectors automatically negotiate and deliver the power level required by a Powered Device (PD) partner. When a non-PoE device, such as a laptop, is connected to the PoE Injector for data only applications, no power is applied.

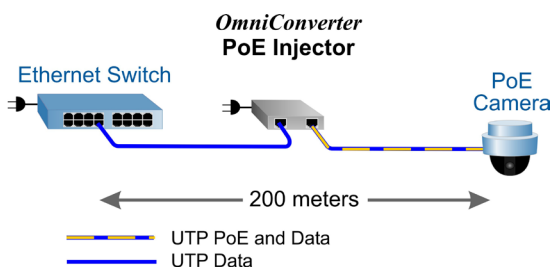
OmniConverter PoE Injectors are plug-and-play devices that support auto-negotiation of data rates and duplex modes for simple in-line installation to instantly extend network distances. This facilitates the installation and troubleshooting by ensuring each link is operational.

The PoE Injector is available as a standalone unit with or without integrated mounting brackets. It can be DIN-rail mounted using the optional DIN-rail mounting clip kit (8252-0). They are available with an external 100 to 240VAC power adapter or with a 2-Pin DC terminal connector.

### APPLICATION EXAMPLES

#### Basic PoE Injector Application

This example shows an OmniConverter PoE Injector powering an 802.3at PoE camera, and achieving a distance of 200 meters between an Ethernet switch and the camera.



### KEY FEATURES

- Ultra compact unmanaged IEEE 802.3at 30W PoE+ Power Injector
- Supports 10/100/1000 RJ-45 uplink port and 10/100/1000 RJ-45 PoE+ downlink port
- Support IEEE 802.3af/at on downlink port
- Auto-negotiate PoE power level requested by the attached PD
- Plug-and-Play installation with auto-negotiation of data rates and duplex modes
- AC to DC Power Adapter or 2-Pin DC terminal
- DIN-rail mount with optional brackets
- Commercial (0 to +50°C), wide (-40 to +60°C) and extended (-40 to +75°C) operating temperature ranges
- Free 24/7/365 Technical Support
- Lifetime warranty
- TAA, BAA and NDAA compliant, and Made in the USA

# SPECIFICATIONS

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|---|--|
| <b>Description</b>                      | <b>OmniConverter GPoE+I</b><br>10/100/1000BASE-T RJ-45 to 10/100/1000BASE-T RJ-45 PoE+ Ethernet Injector   |
| <b>Standard Compliances</b>             | IEEE 802.3, IEEE 802.3af, IEEE 802.3at   |
| <b>Regulatory Compliances (Pending)</b> | <p><b>Safety:</b> UL 62368-1, UL 60950-1, IEC 62368-1, IEC 60950-1, CAN/CSA C22.2 No. 60950-1, EN 60950-1:2006<br/>CE Mark, UKCA</p> <p><b>EMI:</b> FCC 47CFR, Part 15 Class A<br/>AS/NZS 3548, AS/NZS 4417.1 and AS/NZS 4417.2<br/>ICES-003 Issue 3<br/>EN 55032/CISPR 22 and EN55035<br/>EN61000-3-2<br/>VCCI V3/2001.04 (CISPR 22A:1997, Class A)</p> <p><b>EMC:</b> IEC/EN61000-4-2<br/>IEC/EN61000-4-3<br/>IEC/EN61000-4-4<br/>IEC/EN61000-4-5<br/>IEC/EN61000-4-6<br/>IEC/EN61000-4-8<br/>IEC/EN61000-4-11</p> <p><b>ACT:</b> TAA, BAA, NDAA</p> |
| <b>Environmental</b>                    | RoHS, WEEE, REACH  |

|                              |  |  |
|------------------------------|--|--|
| <b>Frame Size</b>            | Up to 9K bytes   |  |
| <b>Port Types</b>            | Copper:  | 10/100/1000BASE-T (RJ-45)                                    |
| <b>Cable Types</b>           | Copper:  | EIA/TIA 568A/B, Cat 5 UTP and higher                         |
| <b>AC Power Requirements</b> | AC/DC Adapter:   | 100 - 240VAC/50 - 60Hz<br>1.5A @ 120VAC (max)                |
| <b>DC Power Requirements</b> | Terminal:  | +44 to +57VDC;<br>0.57A @ 56VDC<br>2 Pin Terminal (isolated) |
| <b>Dimensions W x D x H</b>  | w/o Bracket:   | 1.75" x 2.50" x 0.84"<br>(44.5 mm x 63.5 mm x 21.3 mm)       |
|                              | w/ Bracket:  | 2.10" x 2.50" x 0.84"<br>(53.3 mm x 63.5 mm x 21.3 mm)       |
| <b>Weight</b>                | Module Only:   | 2.5 oz. (70.9 grams)   |
|                              | With AC/DC adapter :                                   | 12 oz. (340.2 grams)   |
| <b>Temperature</b>           | Commercial:  | 0 to 50°C  |
|                              | Wide:  | -40 to 60°C  |
|                              | Extended:  | -40 to 75°C  |
|                              | Storage:   | -50 to 80°C  |
| <b>Humidity</b>              | 5 to 95% (non-condensing)                              |  |
| <b>Altitude</b>              | -100m to 4,000m  |  |
| <b>MTBF (hrs)</b>            | Module Only:   | 2,069,044  |
|                              | US AC/DC Adapter:                                      | 100,000  |
|                              | Universal AC/DC Adapter:                               | 100,000  |
| <b>Warranty</b>              | Lifetime warranty with 24/7/365 free Technical Support |  |

# ORDERING INFORMATION

## Step 1: Choose a Base Part Number (1700-pt)

| Model Number                        | Description  |
|-------------------------------------|--|
| 1700-pt                             | GPoE+I - 1 x 10/100/1000 RJ-45 uplink port + 1 x 10/100/1000 RJ-45 30W PoE+ port |
| Contact Omnitron for other options. |  |

## Step 2: Choose a Power Option (1700-pt)

| Models without Integrated Mounting Brackets  |
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| <b>A</b> = Barrel Connector and AC/DC Power Adapter, 100-240VAC, 50-60Hz, with US power cord without integrated mounting brackets  |
| <b>B</b> = Barrel Connector and Universal AC/DC Adapter, 100-240 VAC, 50-60Hz, No Power Cord, without integrated mounting brackets |
| <b>C</b> = Direct DC input, 2 pin terminal connector, no AC/DC power adapter, without integrated mounting brackets                 |
| <b>G</b> = No AC/DC Adapter provided, without mounting brackets  |
| <b>I</b> = Barrel Connector and AC/DC Adapter, 100-240VAC, 50-60Hz, with Japanese Power Cord, without mounting brackets            |
| Models with Integrated Mounting Brackets   |
| <b>D</b> = Barrel Connector and AC/DC Power Adapter, 100-240VAC, 50-60Hz, with US power cord with integrated mounting brackets     |
| <b>E</b> = Barrel Connector and Universal AC/DC Adapter, 100-240 VAC, 50-60Hz, No Power Cord, with integrated mounting brackets    |
| <b>F</b> = Direct DC input, 2 pin terminal connector, no AC/DC power adapter, with integrated mounting brackets                    |
| <b>H</b> = No AC/DC Adapter provided, with mounting brackets   |
| <b>J</b> = Barrel Connector and AC/DC Adapter, 100-240VAC, 50-60Hz, with Japanese Power Cord, with mounting brackets               |

## Step 3: Choose an Operating Temperature Option (1700-pt)

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| <leave blank> = Commercial temperature (0 to 50°C) |
| <b>W</b> = Wide temperature (-40 to 60°C)          |
| <b>Z</b> = Extended temperature (-40 to 75°C)      |

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