

## IE-INJ-EL01-1GTPOE++

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



## Features of EcoLine Power-over-Ethernet unmanaged switches/injectors

- Variants with 2, 4 or 8 IEEE 802.3af/at compliant PoE ports (up to 30 watt power output per PoE port)
- Integrated DC/DC converter for providing PoE voltage to PDs over the entire PSE input voltage range from 12 to 57 V DC
- Models supporting Gigabit Ethernet including Jumbo Frame support for applications with high demand on bandwidth and latency
- Models with fiber optic ports for communication links over long distances
- Suitable for use in harsh industrial environment thanks to rugged design and wide operating temperature range of -40°C up to 75°C
- Reliable operation due to redundant voltage inputs, fault relay and LED diagnostics

## General ordering data

|            |   |
|------------|---|
| Version    | PoE Injector, Gigabit Ethernet, Number of ports: 1x RJ45 10/100/1000BaseT(X), 1x RJ45 10/100/1000BaseT(X) PoE++, IP30, -40 °C...75 °C |
| Order No.  | <a href="#">3174750000</a>  |
| Type       | IE-INJ-EL01-1GTPOE++  |
| GTIN (EAN) | 4099987855921   |
| Qty.       | 1 items   |

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## Technical data

### Approvals

Approvals



ROHS Conform  
 UL File Number Search [UL Website](#)  
 Certificate no. (cULus) E141197

### Dimensions and weights

|            |       |                 |             |
|------------|-------|-----------------|-------------|
| Depth      | 70 mm | Depth (inches)  | 2.7559 inch |
| Height     | 95 mm | Height (inches) | 3.7401 inch |
| Width      | 41 mm | Width (inches)  | 1.6142 inch |
| Net weight | 329 g |                 |             |

### Temperatures

|                     |                            |                       |                |
|---------------------|----------------------------|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C             | Operating temperature | -40 °C...75 °C |
| Humidity            | 5 to 95 % (non-condensing) |                       |                |

### EMC conformity and approvals

|                 |                             |               |   |
|-----------------|-----------------------------|---------------|---|
| Free fall       | According to IEC 60068-2-31 | EMC standards | EN 55032, EN 55035, FCC Part 15 Subpart B Class A, IEC 61000-4-2 Class A, IEC 61000-4-3 RS: 80 MHz - 5 GHz: 3 V/m, IEC 61000-4-4 EFT: Power: 0.5 kV; Signal: 0.5 kV, IEC 61000-4-5 Surge: Power: 0.5 kV; Signal: 1 kV, IEC 61000-4-6 CS: 3 Vrms |
| Vibration       | according to IEC 60068-2-6  | Shock         | according to IEC 60068-2-27   |
| Safety standard | UL 61010-1, UL 61010-2-201  |               |   |

### Environmental conditions

|                             |                            |  |  |
|-----------------------------|----------------------------|--|--|
| Operating temperature, max. | 75 °C                      |  |  |
| Operating temperature, min. | -40 °C                     |  |  |
| Humidity                    | 5 to 95 % (non-condensing) |  |  |
| Storage temperature, max.   | 85 °C                      |  |  |
| Storage temperature, min.   | -40 °C                     |  |  |
| Operating altitude          | Altitude, max.             | 2000 m   |  |
|                             | Note                       | in acc. with UL  |  |
|                             | Altitude, max.             | 6000 m   |  |
|                             | Note                       | for restrictions, see the manufacturer's declaration for operating altitude in section downloads |  |

### Guarantee

Time interval 5 years

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**Technical data**

**Interfaces**

|               |  |                 |  |
|---------------|--|-----------------|--|
| RJ45 ports    | 10/100/1000BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port | Number of ports | 1x RJ45<br>10/100/1000BaseT(X),<br>1x RJ45<br>10/100/1000BaseT(X)<br>PoE++ |
| LED indicator | Power LED: PWR, PoE active   |                 |  |

**MTBF**

|      |                              |                  |
|------|------------------------------|------------------|
| MTBF | According to Standard        | Telcordia SR-332 |
|      | Operating time (hours), min. | 1834973 h        |
|      | Ambient temperature          | 25 °C            |

**Power over Ethernet (PoE)**

|                        |   |              |
|------------------------|---|--------------|
| PoE output power       | Standard  | IEEE 802.3af |
|                        | Output power  | 15.4 W       |
|                        | Standard  | IEEE 802.3at |
|                        | Output power  | 30 W         |
|                        | Standard  | IEEE 802.3bt |
|                        | Output power  | 90 W         |
| Total PoE power budget | Voltage type  | DC           |
|                        | Voltage, min.   | 12 V         |
|                        | Voltage, max.   | 23.9 V       |
|                        | Power budget  | 30 W         |
|                        | Voltage type  | DC           |
|                        | Voltage, min.   | 24 V         |
|                        | Voltage, max.   | 57 V         |
|                        | Power budget  | 90 W         |
| PoE pin assignment     | Mode A: Pin 1, 2 (V-); Pin 3, 6 (V+); Alternative A: MDI-X / Mode B: Pin 4, 5 (V+); Pin 7, 8 (V-); Alternative B: MDI-X |              |

**Power supply**

|                             |   |        |
|-----------------------------|---|--------|
| Reverse polarity protection | Yes   |        |
| Supply voltage              | 12/24/48 V DC, 1 single input                   |        |
| Overload current protection | Yes   |        |
| Connection type             | 1 removable 4-pin terminal block                |        |
| Voltage supply range        | Voltage type                                    | DC     |
|                             | Voltage, min.                                   | 12 V   |
|                             | Voltage, max.                                   | 57 V   |
| Current consumption         | Voltage   | 12 V   |
|                             | Voltage type                                    | DC     |
|                             | Current consumption with Powered Device (PD)    | 2.54 A |
|                             | Current consumption without Powered Device (PD) | 0.11 A |
|                             | Voltage   | 24 V   |
|                             | Voltage type                                    | DC     |
|                             | Current consumption with Powered Device (PD)    | 3.82 A |
|                             | Current consumption without Powered Device (PD) | 0.07 A |
|                             | Voltage   | 48 V   |
|                             | Voltage type                                    | DC     |
|                             | Current consumption with Powered Device (PD)    | 1.9 A  |
|                             | Current consumption without Powered Device (PD) | 0.01 A |

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## Technical data

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|                       |       |                  |                  |
|-----------------------|-------|------------------|------------------|
| Housing main material | Metal | Type of mounting | DIN rail         |
| Protection degree     | IP30  | Speed            | Gigabit Ethernet |

### Technology

|          |  |
|----------|--|
| Standard | IEEE 802.3 for 10BaseT, IEEE 802.3u for 100BaseT(X), IEEE 802.3ab for 1000BASE-T, IEEE 802.3at/af/bt for Power-over-Ethernet |
|----------|--|

### Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC003552    | ETIM 9.0    | EC003552    |
| ETIM 10.0   | EC003552    | ECLASS 14.0 | 19-17-04-10 |
| ECLASS 15.0 | 19-17-04-10 |             |             |

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## Accessories

### Mounting kit for 19" rack assembly

- For assembling DIN rail-based devices on 19" racks



### General ordering data

|            |                            |                           |  |
|------------|----------------------------|---------------------------|--|
| Type       | RM-KIT                     | Version                   |  |
| Order No.  | <a href="#">1241440000</a> | Kit for 19"-rack mounting |  |
| GTIN (EAN) | 4050118029154              |                           |  |
| Qty.       | 1 ST                       |                           |  |