

**IE-SW-EL10-8GTPOE-2GESFP****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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    | Network switch, unmanaged PoE, Gigabit Ethernet, Number of ports: 8x RJ45 10/100/1000 BaseT(X) PoE+, 2x 100/1000BaseSFP Slot, IP30, -40 °C...75 °C |
| Order No.  | <a href="#">2682410000</a>                                                                                                                         |
| Type       | IE-SW-EL10-8GTPOE-2GESFP                                                                                                                           |
| GTIN (EAN) | 4050118692303                                                                                                                                      |
| Qty.       | 1 pc(s).                                                                                                                                           |

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**Technical data****Dimensions and weights**

|                |            |                 |            |
|----------------|------------|-----------------|------------|
| Depth          | 108.3 mm   | Depth (inches)  | 4.264 inch |
| Height         | 145.1 mm   | Height (inches) | 5.713 inch |
| Net weight     | 1,150 g    | Width           | 54.3 mm    |
| Width (inches) | 2.138 inch |                 |            |

**Temperatures**

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

**Environmental Product Compliance**

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

**EMC conformity and approvals**

|                 |                                                                                                                                                                                                                                                                                   |           |                                                            |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------|
| EMC standards   | EN 55032, EN 55024, CISPR 32, FCC Part 15 Subpart B Class A, IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV, IEC 61000-4-3 RS: 80 MHz bis 1 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 | Free fall |                                                            |
| Safety standard | UL 61010-1, UL 61010-2-201                                                                                                                                                                                                                                                        | Shock     | According to IEC 60068-2-31<br>according to IEC 60068-2-27 |
| Vibration       | according to IEC 60068-2-6                                                                                                                                                                                                                                                        |           |                                                            |

**Environmental conditions**

|                             |                            |                             |          |
|-----------------------------|----------------------------|-----------------------------|----------|
| Humidity                    | 5 to 95 % (non-condensing) | Operating altitude          | ≤ 2000 m |
| Operating temperature, max. | 75 °C                      | Operating temperature, min. | -40 °C   |
| Storage temperature, max.   | 85 °C                      | Storage temperature, min.   | -40 °C   |

**Guarantee**

|               |         |
|---------------|---------|
| Time interval | 5 years |
|---------------|---------|

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## Technical data

## Interfaces

|               |                                                                                                                        |                    |                                                            |
|---------------|------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------|
| DIP switch    | 2x for enabling/disabling power fault alarm via relay, 2x for switching between 100BaseSFP and 1000BaseSFP on SFP port | Fibre-optic ports  | 100/1000Base SFP Slot                                      |
| LED indicator | Power LED: PWR1, PWR2, FAULT, Port LED: LNK/ACT, PoE active                                                            | Number of ports    | 8x RJ45 10/100/1000 BaseT(X) PoE+, 2x 100/1000BaseSFP Slot |
| RJ45 ports    | 10/100/1000BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port                                     | Signalling contact | 1 relay output with a current capacity of 1 A at 24 V DC   |

## MTBF

|      |             |          |                 |
|------|-------------|----------|-----------------|
| MTBF | 537,330 hrs | Database | Telcordia SR332 |
|------|-------------|----------|-----------------|

## Power over Ethernet (PoE)

|                        |                                                          |              |
|------------------------|----------------------------------------------------------|--------------|
| PoE output current     | Standard                                                 | IEEE 802.3af |
|                        | Output current                                           | 350 mA       |
|                        | Standard                                                 | IEEE 802.3at |
|                        | Output current                                           | 600 mA       |
| PoE output power       | Standard                                                 | IEEE 802.3af |
|                        | Output power                                             | 15.4 W       |
|                        | Standard                                                 | IEEE 802.3at |
|                        | Output power                                             | 30 W         |
| PoE pin assignment     | Mode A: Pin 1, 2 (V+); Pin 3, 6 (V-); Alternative A: MDI |              |
| Total PoE power budget | Voltage type                                             | DC           |
|                        | Voltage, min.                                            | 12 V         |
|                        | Voltage, max.                                            | 23 V         |
|                        | Power budget                                             | 60 W         |
|                        | Voltage type                                             | DC           |
|                        | Voltage, min.                                            | 24 V         |
|                        | Voltage, max.                                            | 57 V         |
|                        | Power budget                                             | 120 W        |

## Power supply

|                             |                                   |         |
|-----------------------------|-----------------------------------|---------|
| Connection type             | 1 removable 6-pin terminal block  |         |
| Current consumption         | Voltage                           | 12 V DC |
|                             | Current                           | 7.12 A  |
|                             | Voltage                           | 24 V DC |
|                             | Current                           | 6.13 A  |
|                             | Voltage                           | 48 V DC |
|                             | Current                           | 2.95 A  |
| Overload current protection | Yes                               |         |
| Reverse polarity protection | Yes                               |         |
| Supply voltage, max.        | 57 V DC                           |         |
| Voltage supply              | 12/24/48 V DC, 2 redundant inputs |         |
| Voltage supply range        | Voltage type                      | DC      |
|                             | Voltage, min.                     | 12 V    |
|                             | Voltage, max.                     | 57 V    |

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## Technical data

## Switch characteristics

|                     |         |                     |              |
|---------------------|---------|---------------------|--------------|
| Bandwidth backplane | 20 Gbps | Jumbo frame support | up to 9.6 KB |
| MAC table size      | 8 K     | Packet buffer size  | 4 Mbit       |

## Technical data

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

## Technology

|                |                                                                                                                                                                                                     |              |                          |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------|
| Data switching | Store and Forward                                                                                                                                                                                   | Flow control | IEEE 802.3x flow control |
| Standard       | IEEE 802.3 for 10BaseT,<br>IEEE 802.3u for 100BaseT(X) and 100BaseFX, IEEE 802.3ab for 1000Base-T, IEEE 802.3z for 1000BaseX, IEEE 802.3x for flow control, IEEE 802.3at/af for Power-over-Ethernet |              |                          |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000734    | ETIM 7.0    | EC000734    |
| ECLASS 9.0  | 19-17-01-06 | ECLASS 9.1  | 19-17-01-06 |
| ECLASS 10.0 | 19-17-04-10 | ECLASS 11.0 | 19-17-04-10 |

## Approvals

Approvals



|                       |         |
|-----------------------|---------|
| ROHS                  | Conform |
| UL File Number Search | E141197 |

## Downloads

|                                             |                                                                                               |
|---------------------------------------------|-----------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">EU Declaration of Conformity</a><br><a href="#">RCM Declaration of Conformity</a> |
| User Documentation                          | <a href="#">Hardware Installation Guide</a>                                                   |
| Brochure/Catalogue                          | <a href="#">Catalogues in PDF-format</a>                                                      |