

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

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Features of EcoLine unmanaged Switch series**

- Huge variety of port count and media type enable a wide range of applications (5 to 24 ports)
- Models supporting Gigabit Ethernet including Jumbo Frame support for applications with high demand on bandwidth and latency
- 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, Gigabit Ethernet, Number of ports: 8x RJ45, 2x 100/1000BaseSFP Slot, IP30, -40 °C...75 °C |
| Order No. | 2682240000 |
| Type | IE-SW-EL10-8GT-2GESFP |
| GTIN (EAN) | 4050118692471 |
| Qty. | 1 pc(s). |

Creation date May 10, 2023 1:05:15 PM CEST

Catalogue status 28.04.2023 / We reserve the right to make technical changes.

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Technical data

Dimensions and weights

| | | | |
|------------|--------|-----------------|------------|
| Depth | 90 mm | Depth (inches) | 3.543 inch |
| Height | 127 mm | Height (inches) | 5 inch |
| Width | 41 mm | Width (inches) | 1.614 inch |
| Net weight | 600 g | | |

Temperatures

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

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: 6 kV; Air: 8 kV, IEC 61000-4-3 RS: 80 MHz bis 1 Ghz: 3 V/m, IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV, IEC 61000-4-5 Surge: Power: 1 kV; Signal: 1 kV, IEC 61000-4-6 CS: 3 Vrms | Free fall | According to IEC 60068-2-31 |
| Safety standard | UL 61010-1, UL 61010-2-201 | Shock | according to IEC 60068-2-27 |
| Vibration | according to IEC 60068-2-6 | | |

Environmental conditions

| | | | |
|-----------------------------|----------------------------|--|--|
| Humidity | 5 to 95 % (non-condensing) | | |
| Operating altitude | Altitude, max. | 2,000 m | |
| | Note | in acc. with UL | |
| | Altitude, max. | 6,000 m | |
| | Note | for restrictions, see the manufacturer's declaration for operating altitude in section downloads | |
| 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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Interfaces

| | | |
|-------------------|----------------------------------|---|
| Fibre-optic ports | LED indicator | Power LED: PWR1, PWR2, FAULT, Port LED: LNK/ACT, 10/100/1000M (RJ45 port), LNK/ACT (SFP port) |
| Number of ports | RJ45 ports | 10/100/1000BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port |
| | 100/1000Base SFP Slot | |
| | 8x RJ45, 2x 100/1000BaseSFP Slot | |

MTBF

| | | |
|------|------------------------------|------------------|
| MTBF | According to Standard | Telcordia SR-332 |
| | Operating time (hours), min. | 1,056,516 h |

Power supply

| | | |
|-----------------------------|-----------------------------------|---------|
| Connection type | 1 removable 4-pin terminal block | |
| Current consumption | Voltage | 12 V DC |
| | Current | 0.41 A |
| | Voltage | 24 V DC |
| | Current | 0.2 A |
| | Voltage | 48 V DC |
| | Current | 0.11 A |
| Overload current protection | Yes | |
| Reverse polarity protection | Yes | |
| Voltage supply | 12/24/48 V DC, 2 redundant inputs | |
| Voltage supply range | Voltage type | DC |
| | Voltage, min. | 10.8 V |
| | Voltage, max. | 52.8 V |

Switch characteristics

| | | | |
|---------------------|-----------|---------------------|------------|
| Bandwidth backplane | 20 Gbit/s | Jumbo frame support | up to 9 KB |
| MAC table size | 4 K | Packet buffer size | 1.5 Mbit |

Technical data

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

Technology

| | | | |
|----------------|---|--------------|--------------------------|
| Data switching | Store and Forward | Flow control | IEEE 802.3x flow control |
| Standard | IEEE 802.3 for 10BASE-T, IEEE 802.3u for 100BASE-TX and 100BASE-FX, IEEE 802.3ab for 1000BASE-T, IEEE 802.3z for 1000BASE-X, IEEE 802.3x for flow control | | |

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Technical data**Classifications**

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC000734 | ETIM 7.0 | EC000734 |
| ETIM 8.0 | EC000734 | ECLASS 9.0 | 19-17-01-06 |
| ECLASS 9.1 | 19-17-01-06 | ECLASS 10.0 | 19-17-04-02 |
| ECLASS 11.0 | 19-17-04-02 | ECLASS 12.0 | 19-17-04-02 |

Environmental Product Compliance

| | |
|------------|--------------------------------------|
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 9229992a-00b9-4096-8962-200a7f33e289 |

Approvals

Approvals



| | |
|-------------------------|------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate no. (cULus) | E141197 |

Downloads

| | |
|---|--|
| Approval/Certificate/Document of Conformity | EU Declaration of Conformity RCM Declaration of Conformity UK Declaration of Conformity Manufacturer's declaration for operating altitude |
| Engineering Data | CAD data – STEP |
| User Documentation | Hardware Installation Guide |
| Catalogues | Catalogues in PDF-format |

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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. | 1241440000 | Kit for 19"-rack mounting |
| GTIN (EAN) | 4050118029154 | |
| Qty. | 1 pc(s). | |

SFP transceiver (for use with switches of Eco- Advanced- and SubstationLine)**Features of SFP-Transceiver series**

- Huge variety of transceiver types for several transmission speeds (up to 10 Gigabit Ethernet) and distances (up to 60 km)
- BiDi SFP models for communication via single fiber
- Easy control of transceiver status due to support of Digital Diagnostic Monitoring (DDM)
- Hot pluggable (during operation)
- Class 1 laser product, EN60825-1 compliant
- Applicable for switches of the Eco-, Advanced- and SubstationLine

General ordering data

| | | |
|------------|-----------------------------|---|
| Type | IE-SFP-1GE-SM-20-BIDI-T ... | Version |
| Order No. | 2682540000 | SFP Transceiver, 1000 Mbps, Singlemode BiDi, LC-Simplex, 20 km, |
| GTIN (EAN) | 4050118692174 | -40 °C...85 °C |
| Qty. | 1 pc(s). | |
| Type | IE-SFP-1GE-MM-2 | Version |
| Order No. | 2682490000 | SFP Transceiver, 1000 Mbps, Multimode, LC-Duplex, 2 km, -40 °C...85 |
| GTIN (EAN) | 4050118692228 | °C |
| Qty. | 1 pc(s). | |
| Type | IE-SFP-1GE-SM-10-BIDI-T ... | Version |
| Order No. | 2682530000 | SFP Transceiver, 1000 Mbps, Singlemode BiDi, LC-Simplex, 10 km, |
| GTIN (EAN) | 4050118692181 | -40 °C...85 °C |
| Qty. | 1 pc(s). | |
| Type | IE-SFP-1GE-SM-20-BIDI-T ... | Version |
| Order No. | 2682550000 | SFP Transceiver, 1000 Mbps, Singlemode BiDi, LC-Simplex, 20 km, |
| GTIN (EAN) | 4050118692167 | -40 °C...85 °C |
| Qty. | 1 pc(s). | |
| Type | IE-SFP-1FE-MM-2 | Version |
| Order No. | 2682450000 | SFP Transceiver, 100 Mbps, Multimode, LC-Duplex, 4 km, -40 °C...85 |
| GTIN (EAN) | 4050118692266 | °C |
| Qty. | 1 pc(s). | |

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Accessories

| | | |
|------------|-----------------------------|---|
| Type | IE-SFP-1FE-SM-60 | Version |
| Order No. | 2682470000 | SFP Transceiver, 100 Mbps, Singlemode, LC-Duplex, 60 km, -40 |
| GTIN (EAN) | 4050118692242 | °C...85 °C |
| Qty. | 1 pc(s). | |
| Type | IE-SFP-1GE-MM-05 | Version |
| Order No. | 2682480000 | SFP Transceiver, 1000 Mbps, Multimode, LC-Duplex, 0.5 km, -40 |
| GTIN (EAN) | 4050118692235 | °C...85 °C |
| Qty. | 1 pc(s). | |
| Type | IE-SFP-1GE-SM-40 | Version |
| Order No. | 2682510000 | SFP Transceiver, 1000 Mbps, Singlemode, LC-Duplex, 40 km, -40 |
| GTIN (EAN) | 4050118692204 | °C...85 °C |
| Qty. | 1 pc(s). | |
| Type | IE-SFP-1FE-SM-30 | Version |
| Order No. | 2682460000 | SFP Transceiver, 100 Mbps, Singlemode, LC-Duplex, 30 km, -40 |
| GTIN (EAN) | 4050118692259 | °C...85 °C |
| Qty. | 1 pc(s). | |
| Type | IE-SFP-1GE-SM-10-BIDI-T ... | Version |
| Order No. | 2682520000 | SFP Transceiver, 1000 Mbps, Singlemode BiDi, LC-Simplex, 10 km, |
| GTIN (EAN) | 4050118692198 | -40 °C...85 °C |
| Qty. | 1 pc(s). | |
| Type | IE-SFP-1GE-SM-10 | Version |
| Order No. | 2682500000 | SFP Transceiver, 1000 Mbps, Singlemode, LC-Duplex, 10 km, -40 |
| GTIN (EAN) | 4050118692211 | °C...85 °C |
| Qty. | 1 pc(s). | |