

**IE-SW-EL16-14TX-2FESFP****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)

Do not use product for  
new developments, This  
Product will be discontin-  
ued soon



## 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, Fast Ethernet, Number of ports: 14x RJ45, 2x Slots 100BaseSFP, IP30, -40 °C...75 °C |
| Order No.           | <a href="#">2682160000</a>                                                                                     |
| Type                | IE-SW-EL16-14TX-2FESFP                                                                                         |
| GTIN (EAN)          | 4050118692556                                                                                                  |
| Qty.                | 1 items                                                                                                        |
| Delivery status     | This article will no longer be available in the future.                                                        |
| Available until     | 2025-11-29T00:00:00+01:00                                                                                      |
| Alternative product | <a href="#">IE-SW-EL18-16TX-2GC</a>                                                                            |

## IE-SW-EL16-14TX-2FESFP

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## Technical data

## Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate no. (cULus) E141197

## Dimensions and weights

|            |        |                 |             |
|------------|--------|-----------------|-------------|
| Depth      | 140 mm | Depth (inches)  | 5.5118 inch |
| Height     | 170 mm | Height (inches) | 6.6929 inch |
| Width      | 74 mm  | Width (inches)  | 2.9134 inch |
| Net weight | 1140 g |                 |             |

## Temperatures

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

## Environmental Product Compliance

|                                      |                                         |
|--------------------------------------|-----------------------------------------|
| RoHS Compliance Status               | Compliant with exemption                |
| RoHS Exemption (if applicable/known) | 6c, 7a, 7cl                             |
| REACH SVHC                           | Lead 7439-92-1, Lead monoxide 1317-36-8 |
| SCIP                                 | 9229992a-00b9-4096-8962-200a7f33e289    |

## EMC conformity and approvals

|                 |                             |               |                                                                                                                                                                                                                                                                                   |
|-----------------|-----------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Free fall       | According to IEC 60068-2-31 | 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 |
| 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          |  |

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Note

for restrictions, see the manufacturer's  
 declaration for operating altitude in section  
 downloads

## Guarantee

Time interval 5 years

## Interfaces

|                   |                                  |               |                                                                                         |
|-------------------|----------------------------------|---------------|-----------------------------------------------------------------------------------------|
| Fibre-optic ports | 100BaseSFP-Slot                  | RJ45 ports    | 10/100BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port           |
| Number of ports   | 14x RJ45, 2x Slots<br>100BaseSFP | LED indicator | Power LED: PWR1, PWR2,<br>Port LED: LNK/ACT,<br>10/100M (RJ45 port),<br>100M (SFP-Port) |

## MTBF

|      |                              |                  |
|------|------------------------------|------------------|
| MTBF | According to Standard        | Telcordia SR-332 |
|      | Operating time (hours), min. | 719800 h         |

## Power supply

|                             |                                   |        |
|-----------------------------|-----------------------------------|--------|
| Reverse polarity protection | Yes                               |        |
| Supply voltage              | 12/24/48 V DC, 2 redundant inputs |        |
| Overload current protection | Yes                               |        |
| Connection type             | 1 removable 6-pin terminal block  |        |
| Voltage supply range        | Voltage type                      | DC     |
|                             | Voltage, min.                     | 10.8 V |
|                             | Voltage, max.                     | 52.8 V |
| Current consumption         | Voltage                           | 24 V   |
|                             | Current                           | 0.34 A |

## Switch characteristics

|                     |            |                    |           |
|---------------------|------------|--------------------|-----------|
| MAC table size      | 4 K        | Packet buffer size | 2.75 Mbit |
| Bandwidth backplane | 3.2 Gbit/s |                    |           |

## Technical data

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

## Technology

|                |                                                                                                     |              |                          |
|----------------|-----------------------------------------------------------------------------------------------------|--------------|--------------------------|
| Data switching | Store and Forward                                                                                   | Flow control | IEEE 802.3x flow control |
| Standard       | IEEE 802.3 for 10BASE-T,<br>IEEE 802.3u for 100BASE-TX and 100BASE-FX, IEEE 802.3x for flow control |              |                          |

## Classifications

|          |          |          |          |
|----------|----------|----------|----------|
| ETIM 6.0 | EC000734 | ETIM 7.0 | EC000734 |
| ETIM 8.0 | EC000734 | ETIM 9.0 | EC000734 |

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|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 10.0   | 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 |
| ECLASS 13.0 | 19-17-04-02 | ECLASS 14.0 | 19-17-04-02 |
| ECLASS 15.0 | 19-17-04-02 |             |             |

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## Accessories

## SFP transceiver (for use with switches of Eco-, Advanced-, Substation and BasicLine series B)



## 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-1FE-MM-2            | Version                                                                 |
| Order No.  | <a href="#">2682450000</a> | SFP Transceiver, 100 Mbps, Multimode, LC-Duplex, 4 km, -40 °C...85 °C   |
| GTIN (EAN) | 4050118692266              |                                                                         |
| Qty.       | 1 ST                       |                                                                         |
| Type       | IE-SFP-1FE-SM-30           | Version                                                                 |
| Order No.  | <a href="#">2682460000</a> | SFP Transceiver, 100 Mbps, Singlemode, LC-Duplex, 30 km, -40 °C...85 °C |
| GTIN (EAN) | 4050118692259              |                                                                         |
| Qty.       | 1 ST                       |                                                                         |
| Type       | IE-SFP-1FE-SM-60           | Version                                                                 |
| Order No.  | <a href="#">2682470000</a> | SFP Transceiver, 100 Mbps, Singlemode, LC-Duplex, 60 km, -40 °C...85 °C |
| GTIN (EAN) | 4050118692242              |                                                                         |
| Qty.       | 1 ST                       |                                                                         |

## 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                       |                           |