

**IE-SWM-SL04-4GESFP+****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Features of SubstationLine managed switch series**

The SubstationLine includes Ethernet switches complying with the IEC 61850-3 and IEEE 1613 standards, making them robust enough for operation in harsh environments. The family includes variants for mounting on DIN rails and in 19" racks.

All products have a redundant power supply to ensure reliability in critical environments. The new family ranges from managed Fast Ethernet switches to 10-Gigabit Ethernet products with all the necessary features to operate according to the most demanding requirements.

- DIN-rail and 19" rack variants
- IEC 61850-3 and IEEE 1613 compliance
- PRP/HSR support according to Clause 4/Clause 5 of IEC 62439-3
- MMS server based on bridge model defined in IEC 61850-90-4
- Redundant power supply modules in all models
- Wide operating temperature range of -40°C up to 85°C
- Modular switch version with high flexibility in number and type of ports
- Fast/Gigabit/10-Gigabit interfaces
- Layer 3 models for hardware supported routing between up to 28 IP-subnets

**General ordering data**

|            |                                                                                                                      |
|------------|----------------------------------------------------------------------------------------------------------------------|
| Version    | Media interface module for modular switch, 10-Gigabit Ethernet, Number of ports: 4x 10GBaseSFP+ slot, -40 °C...60 °C |
| Order No.  | <a href="#">2779220000</a>                                                                                           |
| Type       | IE-SWM-SL04-4GESFP+                                                                                                  |
| GTIN (EAN) | 4064675048589                                                                                                        |
| Qty.       | 1 pc(s).                                                                                                             |

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

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Depth      | 136 mm  | Depth (inches)  | 5.354 inch |
| Height     | 40.7 mm | Height (inches) | 1.602 inch |
| Width      | 99 mm   | Width (inches)  | 3.898 inch |
| Net weight | 348 g   |                 |            |

**Temperatures**

|                     |                            |                       |                |
|---------------------|----------------------------|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C             | Operating temperature | -40 °C...60 °C |
| Humidity            | 5 to 95 % (non-condensing) |                       |                |

**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. | 60 °C                      |                                                                                                  |  |
| Operating temperature, min. | -40 °C                     |                                                                                                  |  |
| Storage temperature, max.   | 85 °C                      |                                                                                                  |  |
| Storage temperature, min.   | -40 °C                     |                                                                                                  |  |

**Guarantee**

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

**Interfaces**

|                   |                  |                 |                     |
|-------------------|------------------|-----------------|---------------------|
| Fibre-optic ports | 10GBaseSFP+ slot | Number of ports | 4x 10GBaseSFP+ slot |
|-------------------|------------------|-----------------|---------------------|

**MTBF**

|      |                              |                  |
|------|------------------------------|------------------|
| MTBF | According to Standard        | Telcordia SR-332 |
|      | Operating time (hours), min. | 1,871,812 h      |

**Power supply**

|                |                     |
|----------------|---------------------|
| Voltage supply | via Ethernet switch |
|----------------|---------------------|

**Technical data**

|                       |                          |       |                     |
|-----------------------|--------------------------|-------|---------------------|
| Housing main material | Metal                    | Speed | 10-Gigabit Ethernet |
| Type of mounting      | Insert in module slot M4 |       |                     |

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000309    | ETIM 7.0    | EC000309    |
| ETIM 8.0    | EC000309    | ETIM 9.0    | EC000309    |
| ETIM 10.0   | EC000309    | ECLASS 9.1  | 19-17-03-90 |
| ECLASS 10.0 | 19-17-04-90 | ECLASS 11.0 | 19-17-03-03 |
| ECLASS 12.0 | 19-17-03-03 | ECLASS 13.0 | 19-17-03-03 |
| ECLASS 14.0 | 19-17-03-03 | ECLASS 15.0 | 19-17-03-03 |

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[www.weidmueller.com](http://www.weidmueller.com)**Technical data****Approvals**

Approvals



Approvals MAMID

[https://mdcop.weidmueller.com/mediadelivery/rendition/900\\_319222/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/) [https://mdcop.weidmueller.com/mediadelivery/rendition/900\\_319260/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_319260/-T1z1mm-S800/)

ROHS

Conform

**Environmental Product Compliance**

RoHS Compliance Status

Compliant with exemption

RoHS Exemption (if applicable/known)

7cl

REACH SVHC

Lead monoxide 1317-36-8

**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](#)  
[Configuration tutorials – Video Tutorial Substation Line](#)

User Documentation

[Application notes – Industrial Product Security Guideline](#)  
[Compatibility information – SubstationLine Configurator](#)

Catalogues

[Catalogues in PDF-format](#)

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[www.weidmueller.com](http://www.weidmueller.com)**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-10GE-SM-40          | Version                                                                 |
| Order No.  | <a href="#">2779130000</a> | SFP+ transceiver, 10 Gbps, Singlemode, LC-Duplex, 40 km, -40 °C...85 °C |
| GTIN (EAN) | 4064675048497              |                                                                         |
| Qty.       | 1 pc(s).                   |                                                                         |
| Type       | IE-SFP-10GE-MM-03          | Version                                                                 |
| Order No.  | <a href="#">2779110000</a> | SFP+ transceiver, 10 Gbps, Multimode, LC-Duplex, 0.3 km, -40 °C...85 °C |
| GTIN (EAN) | 4064675048473              |                                                                         |
| Qty.       | 1 pc(s).                   |                                                                         |
| Type       | IE-SFP-10GE-SM-20          | Version                                                                 |
| Order No.  | <a href="#">2779120000</a> | SFP+ transceiver, 10 Gbps, Singlemode, LC-Duplex, 20 km, -40 °C...85 °C |
| GTIN (EAN) | 4064675048480              |                                                                         |
| Qty.       | 1 pc(s).                   |                                                                         |