

**IE-SW-ELB-16-16TX****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Features of EcoLine Series B Switches**

- Covers the most common port combinations with RJ45 and SFP ports for flexible usage
- Network availability is strongly increased thanks to Broadcast Storm Protection
- Support real time communication e.g. in PROFINET networks due to the "Quality of Service" functionality – "PROFINET Conformance Class A"
- Very small design for installation in places where space is critical
- A rotatable DIN-rail-clip allows use at locations offering very limited vertical space such as installation cabinets
- The AC voltage input enables use without a switching power supply to save cost in e.g. building automation
- Plastic-free, handling optimized packaging for fast processing and environmental friendliness

**General ordering data**

|            |                                                                                           |
|------------|-------------------------------------------------------------------------------------------|
| Version    | Network switch, unmanaged, Fast Ethernet, Number of ports: 16x RJ45, IP40, -10 °C...60 °C |
| Order No.  | <a href="#">2828580000</a>                                                                |
| Type       | IE-SW-ELB-16-16TX                                                                         |
| GTIN (EAN) | 4064675369936                                                                             |
| Qty.       | 1 pc(s).                                                                                  |

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## Technical data

## Dimensions and weights

|            |        |                 |            |
|------------|--------|-----------------|------------|
| Depth      | 110 mm | Depth (inches)  | 4.331 inch |
| Height     | 143 mm | Height (inches) | 5.63 inch  |
| Width      | 50 mm  | Width (inches)  | 1.969 inch |
| Net weight | 627 g  |                 |            |

## Temperatures

|                     |                            |                       |                |
|---------------------|----------------------------|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C             | Operating temperature | -10 °C...60 °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: 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          | Altitude, max.             | 2,000 m         |  |
|                             | Note                       | in acc. with UL |  |
| Operating temperature, max. | 60 °C                      |                 |  |
| Operating temperature, min. | -10 °C                     |                 |  |
| Storage temperature, max.   | 85 °C                      |                 |  |
| Storage temperature, min.   | -40 °C                     |                 |  |

## Guarantee

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

## Interfaces

|                     |                                                                                                          |               |                                                                               |
|---------------------|----------------------------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------|
| Function DIP switch | 1x for enabling QoS (according to IEEE 802.1p), 1x for enabling/disabling the broadcast storm protection | LED indicator | Power LED: PWR, Port LED: LNK/ACT, 10/100M (RJ45 port)                        |
| Number of ports     | 16x RJ45                                                                                                 | RJ45 ports    | 10/100BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port |

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## MTBF

|      |                              |                  |
|------|------------------------------|------------------|
| MTBF | According to Standard        | Telcordia SR-332 |
|      | Operating time (hours), min. | 412,528 h        |

## Management features

|                        |                          |                             |                                             |
|------------------------|--------------------------|-----------------------------|---------------------------------------------|
| Network traffic filter | Quality of Service (QoS) | Industrial protocol support | PROFINET device acc. to conformance class A |
|------------------------|--------------------------|-----------------------------|---------------------------------------------|

## Power supply

|                             |                                        |         |
|-----------------------------|----------------------------------------|---------|
| Current consumption         | Voltage                                | 24 V DC |
|                             | Current                                | 0.17 A  |
| Overload current protection | Yes                                    |         |
| Reverse polarity protection | Yes                                    |         |
| Voltage supply              | 12/24/48 V DC, 24 V AC, 1 single input |         |
| Voltage supply range        | Voltage type                           | DC      |
|                             | Voltage, min.                          | 9.6 V   |
|                             | Voltage, max.                          | 60 V    |
|                             | Voltage type                           | AC      |
|                             | Voltage, min.                          | 18 V    |
|                             | Voltage, max.                          | 36 V    |

## Switch characteristics

|                     |            |                |     |
|---------------------|------------|----------------|-----|
| Bandwidth backplane | 3.2 Gbit/s | MAC table size | 8 K |
| Packet buffer size  | 4 Mbit     |                |     |

## Technical data

|                       |               |                   |           |
|-----------------------|---------------|-------------------|-----------|
| Housing main material | Metal         | Protection degree | IP40      |
| Speed                 | Fast 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, IEEE 802.3x for flow control, IEEE 802.1p for Class of Service / Quality of Service (CoS/QoS) |              |                          |

## Classifications

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

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## Environmental Product Compliance

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| REACH SVHC                           | Lead 7439-92-1                       |
| SCIP                                 | 95f06c58-199a-4ab7-817c-c2503ba62133 |
| RoHS Compliance Status               | Compliant with exemption             |
| RoHS Exemption (if applicable/known) | 6c, 7a, 7cl                          |

## Approvals

Approvals



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

## Downloads

|                                             |                                                                                                                                                                                 |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">KC certificate</a><br><a href="#">EU Declaration of Conformity</a><br><a href="#">UK Declaration of Conformity</a><br><a href="#">RCM Declaration of Conformity</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>                                                                                                                                                 |
| User Documentation                          | <a href="#">Hardware Installation Guide</a>                                                                                                                                     |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                                                                                                                        |

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