

**IE-SW-EL24-24TX****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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, Fast Ethernet, Number of ports: 24x RJ45, IP30, -40 °C...75 °C |
| Order No.  | <a href="#">2682190000</a>                                                                |
| Type       | IE-SW-EL24-24TX                                                                           |
| GTIN (EAN) | 4050118692525                                                                             |
| Qty.       | 1 pc(s).                                                                                  |

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## Technical data

## Dimensions and weights

|            |          |                 |            |
|------------|----------|-----------------|------------|
| Depth      | 108.5 mm | Depth (inches)  | 4.272 inch |
| Height     | 154 mm   | Height (inches) | 6.063 inch |
| Width      | 96.4 mm  | Width (inches)  | 3.795 inch |
| Net weight | 1,369 g  |                 |            |

## Temperatures

|                     |                            |                       |                |
|---------------------|----------------------------|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C             | Operating temperature | -40 °C...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: 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 | 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 |
|---------------|---------|

## Interfaces

|               |                                                                               |                    |                                                          |
|---------------|-------------------------------------------------------------------------------|--------------------|----------------------------------------------------------|
| LED indicator | Power LED: PWR1, PWR2, Port LED: Link/ACT, FDX (RJ45 port)                    | Number of ports    | 24x RJ45                                                 |
| RJ45 ports    | 10/100BaseT(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 |

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**Technical data****MTBF**

|      |                              |                  |
|------|------------------------------|------------------|
| MTBF | According to Standard        | Telcordia SR-332 |
|      | Operating time (hours), min. | 959,803 h        |

**Power supply**

|                             |                                   |        |
|-----------------------------|-----------------------------------|--------|
| Connection type             | 1 removable 6-pin terminal block  |        |
| Current consumption         | Voltage                           | 24 V   |
|                             | Current                           | 0.39 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 | 4.8 Gbit/s | MAC table size | 8 K |
| Packet buffer size  | 1 Mbit     |                |     |

**Technical data**

|                       |               |                   |           |
|-----------------------|---------------|-------------------|-----------|
| Housing main material | Metal         | Protection degree | IP30      |
| 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,<br>IEEE 802.3u for 100BASE-TX,<br>IEEE 802.3x for flow control |              |                          |

**Classifications**

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

**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   |

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## Approvals

Approvals



|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals MAMID         | <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319245/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319245/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319260/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319260/-T1z1mm-S800/</a> |
| 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="#">RCM Declaration of Conformity</a><br><a href="#">UK Declaration of Conformity</a><br><a href="#">Manufacturer's declaration for operating altitude</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>                                                                                                                                                                                                                      |
| User Documentation                          | <a href="#">Hardware Installation Guide</a><br><a href="#">Application notes – Industrial Product Security Guideline</a>                                                                                                                             |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                                                                                                                                                                                             |