

IE-SW-BL05T-4TX-1ST

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

Product image



- Variations with 5 or 8 ports
- Variations for Gigabit Ethernet
- Sturdy metal housing
- Compact design
- Two redundant power inputs 12/24/48 V DC
- Variations with copper and fibre-optic interface (multi-mode and singlemode)
- Extensive approvals: CE, FCC, cULus, Class I Div. 2 / ATEX Zone 2, DNV-GL

General ordering data

| | |
|------------|--|
| Version | Network switch, unmanaged, Fast Ethernet, Number of ports: 4 x RJ45, 1 * ST Multi-mode, IP30, -40 °C...75 °C |
| Order No. | 1286540000 |
| Type | IE-SW-BL05T-4TX-1ST |
| GTIN (EAN) | 4050118076981 |
| Qty. | 1 items |

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Technical data

Approvals

Approvals



| | |
|---------------------------|----------------------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate no. (cULus) | E141197 |
| Certificate no. (cULusEX) | E223527 |

Dimensions and weights

| | | | |
|------------|--------|-----------------|-------------|
| Depth | 70 mm | Depth (inches) | 2.7559 inch |
| Height | 115 mm | Height (inches) | 4.5275 inch |
| Width | 30 mm | Width (inches) | 1.1811 inch |
| Net weight | 175 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) | 7a, 7cl |
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 9229992a-00b9-4096-8962-200a7f33e289 |

EMC conformity and approvals

| | | | |
|---------------------|--|-----------|-----------------------------|
| Explosive risk zone | UL/cUL, Class I, Division 2, Groups A, B, C and D, ATEX Zone 2 Ex ec IIC T4 Gc, EN IEC 60079-0, EN IEC 60079-7 | Free fall | According to IEC 60068-2-32 |
| EMC standards | EN 55032, EN 55035, 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 - 6 GHz: 10 V/m, IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV, IEC 61000-4-5 Surge: Power: 2 kV; Signal: 2 kV, IEC 61000-4-6 CS: 10 V, IEC 61000-4-8 PFMF: 100A/m | Vibration | according to IEC 60068-2-6 |
| Shock | according to IEC 60068-2-27 | Ship use | DNV |
| Safety standard | UL 61010-1, UL 61010-2-201, EN 62368-1 | | |

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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 | | |

Fibre optic transceiver characteristics

| | | | |
|-----------------------------|------------|---------|--|
| Transmission rate | 100 Mbps | | |
| Transceiver type | Multimode | | |
| Connector type | ST-Duplex | | |
| Transmission distance, typ. | 5 km | | |
| Wavelength | typ. | 1300 nm | |
| | Wavelength | TX | |
| | min. | 1260 nm | |
| | max. | 1360 nm | |
| | Wavelength | RX | |
| | min. | 1100 nm | |
| Receive power | min. | -32 dBm | |
| | max. | -3 dBm | |
| Transmission power | min. | -20 dBm | |
| | max. | -10 dBm | |
| Link-budget | 12 dB | | |

Guarantee

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

Interfaces

| | | | |
|---------------------|---|-----------------|---|
| Fibre-optic ports | 100BaseFX ports (ST connector), Multimode | RJ45 ports | 10/100BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port |
| Function DIP switch | Broadcast storm protection enable/disable, QoS (on/off), MAC frame filtering (on/off) | Number of ports | 4 x RJ45, 1 * ST Multimode |
| LED indicator | PWR1, PWR2, 10/100M (TP-Port), 100M (fibre-optic port). | | |

MTBF

| | | |
|------|------------------------------|--------------------------|
| MTBF | According to Standard | Telcordia (Bellcore), GB |
| | Operating time (hours), min. | 3293423 h |
| | Ambient temperature | 25 °C |

Management features

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

Power supply

| | |
|-----------------------------|-----------------------------------|
| Reverse polarity protection | Available |
| Supply voltage | 12/24/48 V DC, 2 redundant inputs |

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|-----------------------------|----------------------------------|-------|--|
| Current consumption | 0.11 A at 24 V | | |
| Overload current protection | 1.1 A | | |
| Connection type | 1 removable 4-pin terminal block | | |
| Voltage supply range | Voltage type | DC | |
| | Voltage, min. | 9.6 V | |
| | Voltage, max. | 60 V | |

Switch characteristics

| | | | |
|--------------------|----------|---------------------|----------|
| Priority queues | 4 | MAC table size | 2 K |
| Packet buffer size | 768 kBit | Bandwidth backplane | 1 Gbit/s |

Technical data

| | | | |
|-----------------------|-----------|------------------|--|
| Housing main material | Aluminium | Type of mounting | DIN rail, Panel (with optional mounting kit) |
| Protection degree | IP30 | Speed | Fast Ethernet |
| Switch | unmanaged | | |

Technology

| | | | |
|----------------|---|--------------|---|
| Data switching | Store and Forward | Flow control | IEEE 802.3x flow control, Back pressure flow control |
| Standard | IEEE 802.3 for 10BaseT, IEEE 802.3u for 100BaseT(X) and 100BaseFX, IEEE 802.3x for flow control, IEEE 802.1p for Class of Service / Quality of Service (CoS/QoS) | | |

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC000734 | ETIM 9.0 | EC000734 |
| ETIM 10.0 | EC000734 | ECLASS 14.0 | 19-17-04-02 |
| ECLASS 15.0 | 19-17-04-02 | | |

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Accessories

ST



Mounting rail outlet, ST junction design according to IEC 61754-2

General ordering data

| | | | |
|------------|----------------------------|--|--|
| Type | IE-XM-ST/ST | Version | |
| Order No. | 8808340000 | Mounting rail outlet, fibre-optic, ST-ST coupler, IP20 | |
| GTIN (EAN) | 4032248505920 | | |
| Qty. | 1 ST | | |

Mounting kit for 19" rack assembly

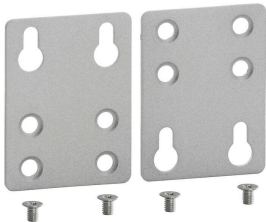
- For assembling DIN rail-based devices on 19" racks



General ordering data

| | | | |
|------------|----------------------------|---------------------------|--|
| Type | RM-KIT | Version | |
| Order No. | 1241440000 | Kit for 19"-rack mounting | |
| GTIN (EAN) | 4050118029154 | | |
| Qty. | 1 ST | | |

Mounting kit for wall mounting



Mounting kit for alternative wall-mounting of DIN rail-based (top-hat type) Industrial Ethernet components. IE-WALLMOUNT-KIT-30MM for use with:

- Industrial Ethernet Switches of the product range IE-SW-BL05

IE-WALLMOUNT-KIT-46MM for use with:

- Industrial Ethernet Switches of the product ranges IE-SW-BL06/BL08/VL05/VL08/VL09/VL16/PL06/PL08/PL09/PL10/PL16/PL18
- Industrial Ethernet media converters of the product range IE-MC-VL
- Industrial Ethernet switches of the product range IE-WL-AP

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Accessories

General ordering data

| | | | |
|------------|----------------------------|-----------------------|--|
| Type | IE-WALLMOUNT-KIT-30MM | Version | |
| Order No. | 1504450000 | Kit for wall mounting | |
| GTIN (EAN) | 4050118312300 | | |
| Qty. | 1 ST | | |

Ethernet



- Suitable for Cat. 5 (up to 100 MHz) and Cat. 6 (up to 250 MHz Class E)
- Suitable for PoE+ (according to IEEE 802.3at, IEEE 802.3bt Type 3 and 4)
- Protection of all wire pairs
- Connection via RJ45 sockets
- Metal housing

General ordering data

| | | | |
|------------|----------------------------|---|--|
| Type | VDATA CAT6 | Version | |
| Order No. | 1348590000 | Terminal rail fixing, Surge protection, Cat.6, PoE, 802.3 bt at Type 1, | |
| GTIN (EAN) | 4050118153002 | 802.3 bt at Type 2, 802.3 bt at Type 3, 802.3 bt at Type 4 | |
| Qty. | 1 ST | | |