

**IE-SW-BL05-1GT-4GTPOE****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image**

- 4 x IEEE 802.3af/at compliant PoE ports
- 12/24/48 VDC redundant wide-range power supply
- Integrated DC/DC converter for supplying 48 V PoE devices over the entire input voltage range from 12 to 57 VDC
- Intelligent power consumption detection and classification
- Variations with copper and fibre-optic interface (multi-mode and singlemode)

**General ordering data**

|            |   |
|------------|---|
| Version    | Network switch, unmanaged PoE, Gigabit Ethernet, Number of ports: 4 * RJ45 10/100/1000BaseT(X) PoE+, 1 * RJ45 10/100/1000BaseT(X), IP30, 0 °C...60 °C |
| Order No.  | <a href="#">1504320000</a>  |
| Type       | IE-SW-BL05-1GT-4GTPOE   |
| GTIN (EAN) | 4050118312089   |
| Qty.       | 1 pc(s).  |

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## Technical data

## Dimensions and weights

|            |        |                 |            |
|------------|--------|-----------------|------------|
| Depth      | 105 mm | Depth (inches)  | 4.134 inch |
| Height     | 135 mm | Height (inches) | 5.315 inch |
| Width      | 29 mm  | Width (inches)  | 1.142 inch |
| Net weight | 360 g  |                 |            |

## Temperatures

|                     |                           |                       |              |
|---------------------|---------------------------|-----------------------|--------------|
| Storage temperature | -40 °C...85 °C            | Operating temperature | 0 °C...60 °C |
| Humidity            | 5...95 %, no condensation |                       |              |

## EMC conformity and approvals

|               |   |                 |                            |
|---------------|---|-----------------|----------------------------|
| EMC standards | FCC Part 15 Subpart B Class A, EN 55032, EN 55024, IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV, IEC 61000-4-3 RS: 80 MHz to 1 GHz: 20 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, EN 61000-4-8 | Safety standard | UL 508                     |
| Shock         | according to IEC 60068-2-27   | Vibration       | according to IEC 60068-2-6 |

## Environmental conditions

|                             |                           |                             |       |
|-----------------------------|---------------------------|-----------------------------|-------|
| Humidity                    | 5...95 %, no condensation | Operating temperature, max. | 60 °C |
| Operating temperature, min. | 0 °C                      | Storage temperature, max.   | 85 °C |
| Storage temperature, min.   | -40 °C                    |                             |       |

## Interfaces

|                     |  |               |  |
|---------------------|--|---------------|--|
| Function DIP switch | Broadcast storm protection enable/disable, Enable/disable jumbo frame support, Activate/deactivate IEEE 802.3az energy-efficient Ethernet, Switching between standard PoE (up to 30 W) and High Power PoE (up to 36 W) | LED indicator | PWR1, PWR2, 10/100/1000M (TP-Port), PoE  |
| Number of ports     | 4 * RJ45 10/100/1000BaseT(X) PoE+, 1 * RJ45 10/100/1000BaseT(X)  | RJ45 ports    | 10/100/1000BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port |

## MTBF

|      |                              |                          |
|------|------------------------------|--------------------------|
| MTBF | According to Standard        | Telcordia (Bellcore), GB |
|      | Operating time (hours), min. | 1,257,910 h              |

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## Power over Ethernet (PoE)

|                        |  |                               |
|------------------------|--|-------------------------------|
| PoE output current     | Standard   | IEEE 802.3af                  |
|                        | Output current   | 350 mA                        |
|                        | Standard   | IEEE 802.3at                  |
|                        | Output current   | 600 mA                        |
|                        | Standard   | High power mode (proprietary) |
|                        | Output current   | 720 mA                        |
| PoE output power       | Standard   | IEEE 802.3af                  |
|                        | Output power   | 15.4 W                        |
|                        | Standard   | IEEE 802.3at                  |
|                        | Output power   | 30 W                          |
|                        | Standard   | High power mode (proprietary) |
|                        | Output power   | 36 W                          |
| PoE pin assignment     | Mode A: Pin 1, 2 (V+); Pin 3, 6 (V-); Alternative A; MDI |                               |
| Total PoE power budget | Voltage type   | DC                            |
|                        | Voltage, min.  | 12 V                          |
|                        | Voltage, max.  | 17 V                          |
|                        | Power budget   | 62 W                          |
|                        | Voltage type   | DC                            |
|                        | Voltage, min.  | 18 V                          |
|                        | Voltage, max.  | 35 V                          |
|                        | Power budget   | 120 W                         |
|                        | Voltage type   | DC                            |
|                        | Voltage, min.  | 36 V                          |
|                        | Voltage, max.  | 57 V                          |
|                        | Power budget   | 144 W                         |

## Power supply

|                             |   |        |
|-----------------------------|---|--------|
| Connection type             | 2 removable 2-pole terminal blocks      |        |
| Current consumption         | Voltage                                 | 12 V   |
|                             | Current                                 | 5.92 A |
|                             | Voltage                                 | 24 V   |
|                             | Current                                 | 5.65 A |
|                             | Voltage                                 | 48 V   |
|                             | Current                                 | 3.21 A |
| Inrush current              | 17.4 A at 24 V DC (0.1 to 1 ms)         |        |
| Overload current protection | Yes                                     |        |
| Power consumption           | max. 11.73 W (without PD's consumption) |        |
| Power loss                  | 36.4 BTU/h                              |        |
| Reverse polarity protection | Yes                                     |        |
| Voltage supply              | 12/24/48 V DC, 2 redundant inputs       |        |
| Voltage supply range        | Voltage type                            | DC     |
|                             | Voltage, min.                           | 12 V   |
|                             | Voltage, max.                           | 57 V   |

## Switch characteristics

|                     |             |                |     |
|---------------------|-------------|----------------|-----|
| Jumbo frame support | up to 10 KB | MAC table size | 8 K |
| Packet buffer size  | 1,024 Kbit  |                |     |

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## Technical data

## Technical data

|                       |                  |                   |               |
|-----------------------|------------------|-------------------|---------------|
| Housing main material | Aluminium        | Protection degree | IP30          |
| Speed                 | Gigabit Ethernet | Switch            | unmanaged PoE |
| Type of mounting      | DIN rail         |                   |               |

## Technology

|                |  |              |   |
|----------------|--|--------------|---|
| Data switching | Store and Forward  | Flow control | IEEE 802.3x flow control,<br>Back pressure flow control |
| Standard       | IEEE 802.3af for Power-over-Ethernet, IEEE 802.3at for Power-over-Ethernet, IEEE 802.3 for 10BaseT, IEEE 802.3u for 100BaseT(X), IEEE 802.3ab for 1000BaseT(X), IEEE 802.3x for flow control, IEEE 802.3az Energy-Efficient Ethernet |              |   |

## 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 |

## Environmental Product Compliance

|            |                                      |
|------------|--------------------------------------|
| REACH SVHC | Lead 7439-92-1                       |
| SCIP       | 9229992a-00b9-4096-8962-200a7f33e289 |

## 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> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>  |
| Product Change Notification                 | <a href="#">Product Change Notification IE-SW-BL05-4GTPoE-series</a>   |
| User Documentation                          | <a href="#">Hardware Installation Guide</a>  |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>   |
| Brochures                                   |  |

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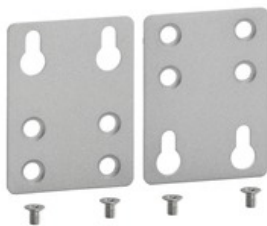
Germany

[www.weidmueller.com](http://www.weidmueller.com)**Accessories****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 pc(s).                   |                           |

**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**

**General ordering data**

|            |                            |                       |
|------------|----------------------------|-----------------------|
| Type       | IE-WALLMOUNT-KIT-30MM      | Version               |
| Order No.  | <a href="#">1504450000</a> | Kit for wall mounting |
| GTIN (EAN) | 4050118312300              |                       |
| Qty.       | 1 pc(s).                   |                       |

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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****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.  | <a href="#">1348590000</a> | 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 pc(s).                   |   |