

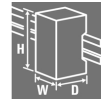
**IE-SW-BL05-4GT-1GS****Weidmüller Interface GmbH & Co. KG**

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, Gigabit Ethernet, Number of ports: 4 * RJ45 10/100/1000BaseT(X), 1 * combo-port (10/100/1000BaseT(X) or 100/1000BaseSFP), IP30, -10 °C...60 °C |
| Order No.  | <a href="#">2435400000</a>                                                                                                                                                |
| Type       | IE-SW-BL05-4GT-1GS                                                                                                                                                        |
| GTIN (EAN) | 4050118447224                                                                                                                                                             |
| Qty.       | 1 pc(s).                                                                                                                                                                  |

Creation date July 4, 2025 9:46:32 AM CEST

Catalogue status 21.06.2025 / We reserve the right to make technical changes.

## IE-SW-BL05-4GT-1GS

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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 | 422 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 55035, EN 61000-6-4, EN 61000-6-2, CISPR 32, 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 to 1 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 | Explosive risk zone | UL/cUL, Class I, Division 2, Groups A, B, C and D, ATEX Zone 2 Ex nA nC IIC T4 Gc |
| Free fall     | According to IEC 60068-2-32                                                                                                                                                                                                                                                                                          | Safety standard     | UL508, EN 60950-1                                                                 |
| Ship use      | DNV                                                                                                                                                                                                                                                                                                                  | Shock               | according to IEC 60068-2-27                                                       |
| Vibration     | according to IEC 60068-2-6                                                                                                                                                                                                                                                                                           |                     |                                                                                   |

## Environmental conditions

|                             |                            |                             |       |
|-----------------------------|----------------------------|-----------------------------|-------|
| Humidity                    | 5 to 95 % (non-condensing) | 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 |
|---------------|---------|

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## Technical data

## Interfaces

|                     |                                                                                                                                                                                                                                    |                   |                                                                                                   |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------------------------------------|
| Alarm contact       | 1 relay output with a current capacity of 1 A at 24 V DC                                                                                                                                                                           | Fibre-optic ports | 100/1000Base SFP Slot                                                                             |
| Function DIP switch | Port surveillance, Broadcast storm protection enable/disable, Enable/disable jumbo frame support, Activate/deactivate IEEE 802.3az energy-efficient Ethernet, Switching between 100BaseSFP and 1000BaseSFP on SFP port             | LED indicator     | Power LED: PWR1, PWR2, FAULT, 10/100/1000M                                                        |
| Note                | The SFP slot can only be used with Weidmüller SFP transceivers belonging to product group "SFP transceivers for use with switches of Basic-, Value- and PremiumLine". Third-party SFP transceivers are not accepted by the switch. | Number of ports   | 4 * RJ45<br>10/100/1000BaseT(X),<br>1 * combo-port<br>(10/100/1000BaseT(X)<br>or 100/1000BaseSFP) |
| 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. | 2,823,446 h              |

## Management features

|                             |                  |
|-----------------------------|------------------|
| Industrial protocol support | CC-Link IE Field |
|-----------------------------|------------------|

## Power supply

|                             |                                   |       |  |
|-----------------------------|-----------------------------------|-------|--|
| Connection type             | 1 removable 6-pin terminal block  |       |  |
| Current consumption         | 0.16 A at 24 V                    |       |  |
| Reverse polarity protection | Available                         |       |  |
| Voltage supply              | 12/24/48 V DC, 2 redundant inputs |       |  |
| Voltage supply range        | Voltage type                      | DC    |  |
|                             | Voltage, min.                     | 9.6 V |  |
|                             | Voltage, max.                     | 60 V  |  |

## Switch characteristics

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

## Technical data

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

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## Technical data

## Technology

| Data switching | Store and Forward                                                                                                                                                                                                             | Flow control | IEEE 802.3x flow control,<br>Back pressure flow control |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------|
| Standard       | IEEE 802.3 for 10BaseT,<br>IEEE 802.3u for<br>100BaseT(X) and<br>100BaseFX, IEEE 802.3ab<br>for 1000BaseT(X), IEEE<br>802.3z for 1000BaseX,<br>IEEE 802.3x for flow con-<br>trol, IEEE 802.3az Ener-<br>gy-Efficient Ethernet |              |                                                         |

## 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 |             |             |

## 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_322323/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_322323/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319213/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319213/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319234/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319234/-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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Certificate no. (cULusEX) | E223527                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## 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 |

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## Technical data

### Downloads

|                                             |                                                                                                                                                                                                                                                       |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">CC-Link IE Field Certificate</a><br><a href="#">DNV certificate</a><br><a href="#">ATEX certificate</a><br><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>                                                                                                                                                                                                                       |
| User Documentation                          | <a href="#">Hardware Installation Guide</a>                                                                                                                                                                                                           |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                                                                                                                                                                                              |

## IE-SW-BL05-4GT-1GS

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## 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).                   |                           |

## SFP transceiver (for use with switches of Basic-, Value- and PremiumLine)



- Supports DDM (Digital Diagnostic Monitoring)
- IEEE 802.3z compliant (Gigabit Ethernet SFPs)
- IEEE 802.3u compliant (Fast Ethernet SFPs)
- Symmetric LVPECL I/Os (Gigabit Ethernet SFPs)
- Symmetric PECL I/Os (Fast Ethernet SFPs)
- TTL signal detection indicator
- Pluggable in operation (hot pluggable)
- Class 1 laser product, EN60825-1 compliant
- Applicable for switches of the Basic-, Value- and PremiumLine

## General ordering data

|            |                            |                                                                     |
|------------|----------------------------|---------------------------------------------------------------------|
| Type       | IE-SFP-1GLHXLC             | Version                                                             |
| Order No.  | <a href="#">1241520000</a> | SFP Transceiver, 1000 Mbps, Singlemode, LC-Duplex, 40 km, 0         |
| GTIN (EAN) | 4050118029369              | °C...60 °C                                                          |
| Qty.       | 1 pc(s).                   |                                                                     |
| Type       | IE-SFP-1GLXLC-T            | Version                                                             |
| Order No.  | <a href="#">1286720000</a> | SFP Transceiver, 1000 Mbps, Singlemode, LC-Duplex, 10 km, -40       |
| GTIN (EAN) | 4050118077537              | °C...85 °C                                                          |
| Qty.       | 1 pc(s).                   |                                                                     |
| Type       | IE-SFP-1GSXLC              | Version                                                             |
| Order No.  | <a href="#">1241490000</a> | SFP Transceiver, 1000 Mbps, Multimode, LC-Duplex, 0.55 km, 0        |
| GTIN (EAN) | 4050118029512              | °C...60 °C                                                          |
| Qty.       | 1 pc(s).                   |                                                                     |
| Type       | IE-SFP-1GLXLC              | Version                                                             |
| Order No.  | <a href="#">1241510000</a> | SFP Transceiver, 1000 Mbps, Singlemode, LC-Duplex, 10 km, 0         |
| GTIN (EAN) | 4050118029338              | °C...60 °C                                                          |
| Qty.       | 1 pc(s).                   |                                                                     |
| Type       | IE-SFP-1GLSXLC-T           | Version                                                             |
| Order No.  | <a href="#">1286710000</a> | SFP Transceiver, 1000 Mbps, Multimode, LC-Duplex, 2 km, -40 °C...85 |
| GTIN (EAN) | 4050118077520              | °C                                                                  |
| Qty.       | 1 pc(s).                   |                                                                     |

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## Accessories

|            |                            |                                                                    |
|------------|----------------------------|--------------------------------------------------------------------|
| Type       | IE-SFP-1FELLC-T            | Version                                                            |
| Order No.  | <a href="#">1241480000</a> | SFP Transceiver, 100 Mbps, Singlemode, LC-Duplex, 80 km, -40       |
| GTIN (EAN) | 4050118029178              | °C...85 °C                                                         |
| Qty.       | 1 pc(s).                   |                                                                    |
| Type       | IE-SFP-1FESLC-T            | Version                                                            |
| Order No.  | <a href="#">1241470000</a> | SFP Transceiver, 100 Mbps, Singlemode, LC-Duplex, 40 km, -40       |
| GTIN (EAN) | 4050118029420              | °C...85 °C                                                         |
| Qty.       | 1 pc(s).                   |                                                                    |
| Type       | IE-SFP-1GLSXLC             | Version                                                            |
| Order No.  | <a href="#">1241500000</a> | SFP Transceiver, 1000 Mbps, Multimode, LC-Duplex, 2 km, 0 °C...60  |
| GTIN (EAN) | 4050118029314              | °C                                                                 |
| Qty.       | 1 pc(s).                   |                                                                    |
| Type       | IE-SFP-1GSXLC-T            | Version                                                            |
| Order No.  | <a href="#">1286700000</a> | SFP Transceiver, 1000 Mbps, Multimode, LC-Duplex, 0.55 km, -40     |
| GTIN (EAN) | 4050118077261              | °C...85 °C                                                         |
| Qty.       | 1 pc(s).                   |                                                                    |
| Type       | IE-SFP-1GLHXLC-T           | Version                                                            |
| Order No.  | <a href="#">1286730000</a> | SFP Transceiver, 1000 Mbps, Singlemode, LC-Duplex, 40 km, -40      |
| GTIN (EAN) | 4050118077728              | °C...85 °C                                                         |
| Qty.       | 1 pc(s).                   |                                                                    |
| Type       | IE-SFP-1FEMLC-T            | Version                                                            |
| Order No.  | <a href="#">1241450000</a> | SFP Transceiver, 100 Mbps, Multimode, LC-Duplex, 4 km, -40 °C...85 |
| GTIN (EAN) | 4050118029192              | °C                                                                 |
| Qty.       | 1 pc(s).                   |                                                                    |

## 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

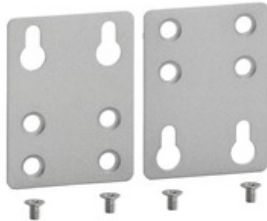
|            |                            |                                                                         |
|------------|----------------------------|-------------------------------------------------------------------------|
| Type       | VDATA CAT6                 | Version                                                                 |
| 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).                   |                                                                         |

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