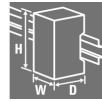


**IE-SW-BL05-1GT-4GTPOE****Weidmüller Interface GmbH & Co. KG**

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).                                                                                                                                              |

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

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## 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              |

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

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Technical data****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  |                |     |

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

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## 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    |
| 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) | 7a, 7cl                              |
| REACH SVHC                           | Lead 7439-92-1                       |
| SCIP                                 | 9229992a-00b9-4096-8962-200a7f33e289 |

## 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)

## Technical data

### 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                                   |                                                                                                                                |