

**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 (multimode 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 |                       |              |

## Environmental Product Compliance

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

## EMC conformity and approvals

|               |                                                                                                                                                                                                                                                                                     |                 |                            |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------|
| EMC standards | FCC Part 15 Subpart B<br>Class A, EN 55032, EN 55024, IEC 61000-4-2<br>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<br>10/100/1000BaseT(X)<br>PoE+, 1 * RJ45<br>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 DC |
|                             | Current                                 | 5.92 A  |
|                             | Voltage                                 | 24 V DC |
|                             | Current                                 | 5.65 A  |
|                             | Voltage                                 | 48 V DC |
|                             | 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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|-----------------------|----------------------------------------------|-------------------|---------------|
| Housing main material | Aluminium                                    | Protection degree | IP30          |
| Speed                 | Gigabit Ethernet                             | Switch            | unmanaged PoE |
| Type of mounting      | DIN rail, Panel (with optional mounting kit) |                   |               |

## 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    | 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 |             |             |

## Approvals

Approvals



|                       |         |
|-----------------------|---------|
| ROHS                  | Conform |
| UL File Number Search | E141197 |

## Downloads

|                                             |                                                                                |
|---------------------------------------------|--------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">KC certificate</a><br><a href="#">EU Declaration of Conformity</a> |
| Engineering Data                            | <a href="#">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                                   |                                                                                |