

IE-SW-BL05-1GS-4GTPOE

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

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* Slot 100/1000BaseSFP, IP30, 0 °C...60 °C |
| Order No. | 1504360000 |
| Type | IE-SW-BL05-1GS-4GTPOE |
| GTIN (EAN) | 4050118312409 |
| Qty. | 1 pc(s). |

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Catalogue status 22.10.2021 / We reserve the right to make technical changes.

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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 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 | | |

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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), Switching between 100BaseSFP and 1000BaseSFP on SFP port | LED indicator | PWR1, PWR2, 10/100/1000M (TP-Port), 100/1000M (SFP-Port), PoE |
| Note | The SFP slot can only be used with Weidmüller SFP transceivers. Third-party SFP transceivers are not accepted by the switch. | Number of ports | 4 * RJ45 10/100/1000BaseT(X) PoE+, 1* Slot 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. | 1,257,910 h |

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) | |
| PoE output power | Output current | 720 mA | |
| | Standard | IEEE 802.3af | |
| | Output power | 15.4 W | |
| | Standard | IEEE 802.3at | |
| | Output power | 30 W | |
| PoE pin assignment | Standard | High power mode (proprietary) | |
| | Output power | 36 W | |
| | 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 | | |

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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 | | |

Technical data

| | | | |
|-----------------------|----------------------------------------------|-------------------|---------------|
| 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, 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) and 100BaseFX, IEEE 802.3ab for 1000BaseT(X), IEEE 802.3z for 1000BaseX, 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 | | |

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Approvals

Approvals



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

Downloads

| | |
|---------------------------------------------|----------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | EU Declaration of Conformity |
| Engineering Data | STEP |
| Product Change Notification | Product Change Notification IE-SW-BL05-4GTPoE-series |
| User Documentation | Hardware Installation Guide |
| Catalogues | Catalogues in PDF-format |
| Brochures | |