

## Industrial Ethernet IE-SW-BL05-1GS-4GTPOE

**Weidmüller Interface GmbH & Co. KG**  
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### 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

Type	IE-SW-BL05-1GS-4GTPOE
Order No.	<a href="#">1504360000</a>
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
GTIN (EAN)	4050118312409
Qty.	1 pc(s).

Creation date May 4, 2020 2:41:00 AM CEST

Catalogue status 17.04.2020 / We reserve the right to make technical changes.

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**Technical data****Dimensions and weights**

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

**Environmental Product Compliance**

REACH SVHC	Lead 7439-92-1
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**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**

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
Number of ports	4 * RJ45 10/100/1000BaseT(X) PoE+, 1* Slot 100/1000BaseSFP	PoE pin assignment	V+, V+, V-, V-, for pins 1, 2, 3, 6 (endspan, MDI alternative A)
RJ45 ports	10/100/1000BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port		

**MTBF**

MTBF	1,257,910 hrs	Database	Telcordia (Bellcore), GB
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**Technical data****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		
Total PoE power budget	62 W at 12 V DC (12 to 17 V DC), 120 W at 24 V DC (18 to 35 V DC), 144 W at 48 V DC (36 to 57 V DC)		
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
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
eClass 9.0	19-17-01-06	eClass 9.1	19-17-01-06
eClass 10.0	19-17-04-02		

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**Technical data****Approvals**

Approvals



ROHS

Conform

**Downloads**

Approval/Certificate/Document of Conformity	<a href="#">EU Declaration of Conformity</a>
Brochure/Catalogue	<a href="#">CAT 9 IETH 18/19 EN</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>

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# Accessories

## Mounting kit for 19" rack assembly

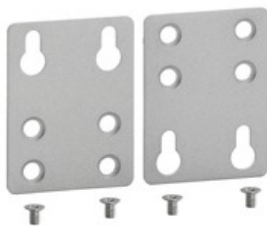
- For assembling DIN rail-based devices on 19" racks



### 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).	

## 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
Order No.	<a href="#">1504450000</a>
GTIN (EAN)	4050118312300
Qty.	1 pc(s).

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# Accessories

### Ethernet (Cat.6)



- 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, 1 A, According to IEC61643-21
GTIN (EAN)	4050118153002	
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

### General ordering data

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-1FELLCT	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-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).	
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-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).	

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## Accessories

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-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-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-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).	
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-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).	