

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

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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

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Catalogue status 28.04.2023 / 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	422 g		

## Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-10 °C...60 °C
Operating temperature, min.	-10 °C	Operating temperature, max.	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 10/100/1000BaseT(X), 1 * combo-port (10/100/1000BaseT(X) 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

## 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, Back pressure flow control
Standard	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	ECLASS 12.0	19-17-04-02

## Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	9229992a-00b9-4096-8962-200a7f33e289

## Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E141197
Certificate no. (cULusEX)	E223527

## Downloads

Approval/Certificate/Document of Conformity	<a href="#">CC-Link IE Field Certificate</a> <a href="#">DNV-GL certificate</a> <a href="#">ATEX certificate</a> <a href="#">KC certificate</a> <a href="#">EU Declaration of Conformity</a> <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>

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## Accessories

## 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-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-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-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-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-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-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-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).	

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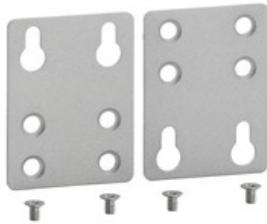
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## Accessories

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).	

## 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**

**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).	

**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, 802.3 at Type 1, 802.3 at Type 2, 802.3 bt Type 3, 802.3 bt at Type 4, PoE
GTIN (EAN)	4050118153002	
Qty.	1 pc(s).	