

IE-SW-BL05-1GT-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 (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.	1504320000
Type	IE-SW-BL05-1GT-4GTPOE
GTIN (EAN)	4050118312089
Qty.	1 items

IE-SW-BL05-1GT-4GTPOE

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

Technical data

Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate no. (cULus) E141197

Dimensions and weights

Depth	105 mm	Depth (inches)	4.1338 inch
Height	135 mm	Height (inches)	5.3149 inch
Width	29 mm	Width (inches)	1.1417 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

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cI
REACH SVHC	Lead 7439-92-1
SCIP	9229992a-00b9-4096-8962-200a7f33e289

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	Vibration	according to IEC 60068-2-6
Shock	according to IEC 60068-2-27	Safety standard	UL 508

Environmental conditions

Operating temperature, max.	60 °C	Operating temperature, min.	0 °C
Humidity	5...95 %, no condensation	Storage temperature, max.	85 °C
Storage temperature, min.	-40 °C		

Interfaces

RJ45 ports	10/100/1000BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port	Function DIP switch	Broadcast storm protection enable/disable, Enable/disable jumbo frame support, Activate/deactivate IEEE 802.3az
------------	--	---------------------	---

IE-SW-BL05-1GT-4GTPOE

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

energy-efficient Ethernet,
Switching between
standard PoE (up to 30 W)
and High Power PoE (up to
36 W)

Number of ports	4 * RJ45 10/100/1000BaseT(X) PoE+, 1 * RJ45 10/100/1000BaseT(X)	LED indicator	PWR1, PWR2, 10/100/1000M (TP-Port), PoE
-----------------	--	---------------	---

MTBF

MTBF	According to Standard	Telcordia (Bellcore), GB
	Operating time (hours), min.	1257910 h

Power over Ethernet (PoE)

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)
PoE output current	Output power	36 W
	Standard	IEEE 802.3af
	Output current	350 mA
	Standard	IEEE 802.3at
	Output current	600 mA
Total PoE power budget	Standard	High power mode (proprietary)
	Output current	720 mA
	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	
PoE pin assignment	Mode A: Pin 1, 2 (V+); Pin 3, 6 (V-); Alternative A: MDI	

Power supply

Reverse polarity protection	Yes	
Supply voltage	12/24/48 V DC, 2 redundant inputs	
Power consumption	max. 11.73 W (without PD's consumption)	
Inrush current	17.4 A at 24 V DC (0.1 to 1 ms)	
Power loss	36.4 BTU/h	
Overload current protection	Yes	
Connection type	2 removable 2-pole terminal blocks	
Voltage supply range	Voltage type	DC
	Voltage, min.	12 V
	Voltage, max.	57 V
Current consumption	Voltage	12 V
	Current	5.92 A
	Voltage	24 V
	Current	5.65 A

IE-SW-BL05-1GT-4GTPOE

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

Technical data

Voltage	48 V
Current	3.21 A

Switch characteristics

MAC table size	8 K	Packet buffer size	1024 kBit
Jumbo frame support	up to 10 KB		

Technical data

Housing main material	Aluminium	Type of mounting	DIN rail
Protection degree	IP30	Speed	Gigabit Ethernet
Switch	unmanaged PoE		

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), IEEE 802.3ab for 1000BaseT(X), IEEE 802.3x for flow control, IEEE 802.3az Energy-Efficient Ethernet		

Classifications

ETIM 8.0	EC000734	ETIM 9.0	EC000734
ETIM 10.0	EC000734	ECLASS 14.0	19-17-04-02
ECLASS 15.0	19-17-04-02		

IE-SW-BL05-1GT-4GTPOE

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

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.	1241440000	Kit for 19"-rack mounting	
GTIN (EAN)	4050118029154		
Qty.	1 ST		

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	Version	
Order No.	1504450000	Kit for wall mounting	
GTIN (EAN)	4050118312300		
Qty.	1 ST		

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

IE-SW-BL05-1GT-4GTPOE

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Accessories

General ordering data

Type	VDATA CAT6	Version
Order No.	1348590000	Terminal rail fixing, Surge protection, Cat.6, PoE, 802.3 bt at Type 1,
GTIN (EAN)	4050118153002	802.3 bt at Type 2, 802.3 bt at Type 3, 802.3 bt at Type 4
Qty.	1 ST	