

IE-SW-VL16-14TX-2ST**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image**

- Wide ranges of variations with 5 to 16 ports
- Variations for Gigabit Ethernet
- Two redundant power inputs 12/24/48 V DC
- Models with copper and fibre-optic interface (multi-mode and singlemode)
- Extensive approvals: CE, FCC, cULus, Class I Div. 2 / ATEX Zone 2, DNV-GL

General ordering data

Version	Network switch, unmanaged, Fast Ethernet, Number of ports: 14x RJ45, 2 * ST Multi-mode, IP30, 0 °C...60
Order No.	1241050000
Type	IE-SW-VL16-14TX-2ST
GTIN (EAN)	4050118028942
Qty.	1 items
Delivery status	Discontinued
Available until	2022-06-01T00:00:00+02:00
Alternative product	IE-SW-BLB-18-16TX-2GESFP

IE-SW-VL16-14TX-2ST

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Technical data

Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate no. (cULus) E230683

Certificate no. (cULusEX) E223527

Dimensions and weights

Depth	105	Depth (inches)	4.1338 inch
Height	135 mm	Height (inches)	5.3149 inch
Width	80.5 mm	Width (inches)	3.1693 inch
Net weight	1140 g		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	0 °C...60
Humidity	5 to 95 % (non-condensing)		

Environmental Product Compliance

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

EMC conformity and approvals

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
EMC standards	EN 55032, EN 55024, 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: 20 V/m, IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV, IEC 61000-4-5 Surge: Power: 2 kV; Signal: 2 kV, IEC 61000-4-6 CS: 10 V, IEC 61000-4-8	Vibration	according to IEC 60068-2-6
Shock	according to IEC 60068-2-27	Ship use	DNV
Safety standard	UL508, UL 60950-1, EN 60950-1		

Environmental conditions

Operating temperature, max.	60	Operating temperature, min.	0 °C
Humidity	5 to 95 % (non-condensing)	Storage temperature, max.	85 °C
Storage temperature, min.	-40 °C		

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Fibre optic transceiver characteristics

Transmission rate	100 Mbps	
Transceiver type	Multimode	
Connector type	ST-Duplex	
Transmission distance, typ.	5 km	
Wavelength	typ.	1300 nm
	Wavelength	TX
	min.	1260 nm
	max.	1360 nm
	Wavelength	RX
	min.	1100 nm
	max.	1600 nm
Receive power	min.	-32 dBm
	max.	-3 dBm
Transmission power	min.	-20 dBm
	max.	-10 dBm
Link-budget	12 dB	

Guarantee

Time interval	5 years
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Interfaces

Fibre-optic ports	100BaseFX ports (ST connector), Multimode	RJ45 ports	10/100BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port
Function DIP switch	Port surveillance, Broadcast storm protection enable/disable	Signalling contact	1 relay output with a current capacity of 1 A at 24 V DC
Number of ports	14x RJ45, 2 * ST Multimode	LED indicator	PWR1, PWR2, FAULT, 10/100M (TP-Port), 100M (fibre-optic port).

MTBF

MTBF	According to Standard	MIL-HDBK-217F, GB 25°C
	Operating time (hours), min.	257000 h

Power supply

Reverse polarity protection	Available	
Supply voltage	12/24/48 V DC, 2 redundant inputs	
Current consumption	0.44 A at 24 V	
Overload current protection	1.6 A	
Connection type	1 removable 6-pin terminal block	
Voltage supply range	Voltage type	DC
	Voltage, min.	9.6 V
	Voltage, max.	60 V

Switch characteristics

MAC table size	4 K	Packet buffer size	1.25 Mbit
Bandwidth backplane	3.2 Gbit/s		

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Technical data

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Housing main material	metal	Type of mounting	DIN rail, Panel (with optional mounting kit)
Protection degree	IP30	Speed	Fast Ethernet
Switch	unmanaged		

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 802.3x for flow control		

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		

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

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	