

IE-SW-PL18M-2GC14TX2SCS

Weidmüller Interface GmbH & Co. KG

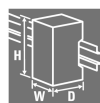
Klingenbergstraße 26

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www.weidmueller.com

Product image



Weidmüller's Premium Line consists of high-end switches with advanced management and security features. It is suitable for demanding network solutions. The equipment can be delivered with Fast Ethernet or Gigabit Ethernet ports. With their advanced ring redundancy technology (recovery time ≤ 20 ms), these devices raise the reliability and availability of your industrial networks. The optional SFP transceiver can be fitted offering a high degree of flexibility. Gigabit versions permit use in networks with a high volume of communications

- Managed Fast Ethernet versions in a high-quality metal housing (IP 30)
- Versions with 10 or 18 ports and Gigabit uplink ports
- Full Gigabit switch with 9 ports
- Supports all standard TCP/IP-based protocols in industrial networks (for example Ethernet/IP, Modbus/TCP)
- Integrated redundancy mechanisms (recovery time ≤ 20 ms) increase the reliability in network ring structures
- Approvals: CE, FCC, cULus, Class I Div. 2 / ATEX, DNV / GL

General ordering data

Version	Network switch, managed, Fast/Gigabit Ethernet, Number of ports: 14 * RJ45 10/100BaseT(X), 2x SC Single-mode, 2 * combo-ports (10/100/1000BaseT(X) or 1000BaseSFP), IP30, 0 °C...60 °C
Order No.	1241350000
Type	IE-SW-PL18M-2GC14TX2SCS
GTIN (EAN)	4050118029307
Qty.	1 items
Delivery status	Discontinued
Available until	2022-03-01T00:00:00+01:00
Alternative product	IE-SW-AL24M-16GT-8GESFP

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Technical data

Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate no. (cULus) E141197

Certificate no. (cULusEX) E223527

Dimensions and weights

Depth	142.7	Depth (inches)	5.6181 inch
Height	135 mm	Height (inches)	5.3149 inch
Width	94 mm	Width (inches)	3.7008 inch
Net weight	1630 g		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	0 °C...60 °C
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: 10 V/m, IEC 61000-4-4 EFT: Power: 1 kV; Signal: 0.5 kV, IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 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 °C	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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Technical data

Fibre optic transceiver characteristics

Transmission rate	100 Mbps	
Transceiver type	Singlemode	
Connector type	SC-Duplex	
Transmission distance, typ.	40 km	
Wavelength	typ.	1310 nm
	Wavelength	TX
	min.	1280 nm
	max.	1340 nm
	Wavelength	RX
	min.	1100 nm
	max.	1600 nm
Receive power	min.	-34 dBm
	max.	-3 dBm
Transmission power	min.	-5 dBm
	max.	0 dBm
Note	When connecting a single-mode fiber transceiver over a short distance, we recommend using an attenuator to prevent the transceiver from being damaged by excessive optical power.	

Guarantee

Time interval	5 years
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Interfaces

Fibre-optic ports	100BaseFX ports (SC connector), Singlemode, 1000BaseSFP-Slot	RJ45 ports	10/100BaseT(X) or 10/100/1000BaseT(X), auto negotiation
Console port interface	RS-232	Alarm contact	2 relay outputs with a current capacity of 1 A at 24 V DC
Number of ports	14 * RJ45 10/100BaseT(X), 2x SC Single-mode, 2 * combo-ports (10/100/1000BaseT(X) or 1000BaseSFP)	Digital inputs	2 inputs with the same ground, isolated • +13 To +30 V for logic "1" • -30 To +3 V for logic "0" • Max. input current: 8 mA
LED indicator	PWR1, PWR2, FAULT, MSTR/HEAD, CPLR/TAIL, 10/100M (TP-Port), 100M (fibre-optic port), 1000M (Gigabit-Port)		

MTBF

MTBF	According to Standard	Telcordia (Bellcore), GB
	Operating time (hours), min.	240000 h

Management features

Device configuration	Webbrowser (HTTP/HTTPS), SNMP v1/v2c/v3, Telnet console, Local serial console port (RS-232 via RJ-45 port), Windows tool	Monitoring function	SNMP v1/v2c/v3, Link Layer Discovery Protocol (LLDP), Port mirroring, Port statistics, Port monitoring, Syslog, RMON (Remote monitoring), Event based warning via E-Mail, Event based warning via relay,
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Network redundancy	Spanning Tree Protocol (STP), Rapid Spanning Tree Protocol (RSTP), Turbo-Ring (recovery time <20/50 ms at Fast/Gigabit Ethernet interface), Turbo-Chain (recovery time <20/50 ms at Fast/Gigabit Ethernet interface), Link Aggregation Control Protocol (LACP)	Network traffic filter	Event based warning via SNMP trap Quality of Service (QoS), Tag based VLAN, Port based VLAN, IGMP v1/v2, GMRP, Traffic Rate Limiting
IP-address management	Static, BootP, RARP, DHCP-Client, DHCP-Server (port based), DHCP Option 82 (Relay Agent)	Security functions	VLAN segmentation, Enable/disable ports, Access control (port based via IEEE 802.1X), Access control list (MAC-based), Loop protection, TACACS + and IEEE 802.1X User Authentication
Time synchronization management	SNTP client, NTP client, PTPv1	Industrial protocol support	PROFINET device acc. to conformance class B, EtherNet/IP, Modbus/TCP slave

Power supply

Reverse polarity protection	Available	
Supply voltage	24 V DC, 2 redundant inputs	
Overload current protection	Existing	
Connection type	2 removable 6-pin terminal blocks	
Voltage supply range	Voltage type	DC
	Voltage, min.	12 V
	Voltage, max.	45 V
Current consumption	Voltage	24 V
	Current	0.61 A

Switch characteristics

Priority queues	4	Max. number of available VLANs	64
VLAN-ID min	1	VLAN-ID max	4094
IGMP-Groups	256	MAC table size	8 K
Packet buffer size	2 Mbit	Bandwidth backplane	7.2 Gbit/s

Technical data

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

Technology

MIB	MIB-II, Ethernet-Like MIB, P-BRIDGE MIB, Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9	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

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for 1000BaseT(X), IEEE
802.3z for 1000BaseX,
IEEE 802.3x for flow
control, IEEE 802.1D-2004
for the Spanning Tree
protocol, IEEE 802.1w for
Rapid STP, IEEE 802.1Q
for VLAN tagging, IEEE
802.1p for Class of
Service, IEEE 802.1X
for authentication, IEEE
802.3ad for port trunk
with LACP

Classifications

ETIM 6.0	EC000734	ETIM 7.0	EC000734
ETIM 8.0	EC000734	ETIM 9.0	EC000734
ETIM 10.0	EC000734	ECLASS 9.0	19-17-01-06
ECLASS 9.1	19-17-01-06	ECLASS 10.0	19-17-04-01
ECLASS 11.0	19-17-04-01	ECLASS 12.0	19-17-04-01
ECLASS 13.0	19-17-04-01	ECLASS 14.0	19-17-04-01
ECLASS 15.0	19-17-04-01		

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Accessories

Configuration backup and restore module (for use with switches of Value- and PremiumLine such as Basic- and ValueLine WLAN devices)



- Module for saving and loading a device configuration
- Reduced system downtime by simple reconfiguration if equipment is swapped over
 - Automatic loading of the saved configuration possible after device restart
 - Compact and robust design
 - Useable with all Weidmüller managed switches and industrial WLAN devices

General ordering data

Type	EBR-MODULE RS232	Version
Order No.	1241430000	Configuration module, IP40, 0 °C...60 °C
GTIN (EAN)	4050118029086	
Qty.	1 ST	

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	

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

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Accessories

General ordering data

Type	IE-SFP-1GSXLC	Version
Order No.	1241490000	SFP Transceiver, 1000 Mbps, Multimode, LC-Duplex, 0.55 km, 0
GTIN (EAN)	4050118029512	°C...60 °C
Qty.	1 ST	
Type	IE-SFP-1GSXLC-T	Version
Order No.	1286700000	SFP Transceiver, 1000 Mbps, Multimode, LC-Duplex, 0.55 km, -40
GTIN (EAN)	4050118077261	°C...85 °C
Qty.	1 ST	
Type	IE-SFP-1GLSXLC	Version
Order No.	1241500000	SFP Transceiver, 1000 Mbps, Multimode, LC-Duplex, 2 km, 0 °C...60
GTIN (EAN)	4050118029314	°C
Qty.	1 ST	
Type	IE-SFP-1GLSXLC-T	Version
Order No.	1286710000	SFP Transceiver, 1000 Mbps, Multimode, LC-Duplex, 2 km, -40
GTIN (EAN)	4050118077520	°C...85 °C
Qty.	1 ST	
Type	IE-SFP-1GLXLC	Version
Order No.	1241510000	SFP Transceiver, 1000 Mbps, Singlemode, LC-Duplex, 10 km, 0
GTIN (EAN)	4050118029338	°C...60 °C
Qty.	1 ST	
Type	IE-SFP-1GLXLC-T	Version
Order No.	1286720000	SFP Transceiver, 1000 Mbps, Singlemode, LC-Duplex, 10 km, -40
GTIN (EAN)	4050118077537	°C...85 °C
Qty.	1 ST	
Type	IE-SFP-1GLHXLC	Version
Order No.	1241520000	SFP Transceiver, 1000 Mbps, Singlemode, LC-Duplex, 40 km, 0
GTIN (EAN)	4050118029369	°C...60 °C
Qty.	1 ST	
Type	IE-SFP-1GLHXLC-T	Version
Order No.	1286730000	SFP Transceiver, 1000 Mbps, Singlemode, LC-Duplex, 40 km, -40
GTIN (EAN)	4050118077728	°C...85 °C
Qty.	1 ST	