

**IE-SW-PL18M-2GC-16TX**
**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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  $\leq 20$  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  $\leq 20$  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: 16 * RJ45 10/100BaseT(X), 2 * combo-ports (10/100/1000BaseT(X) or 1000BaseSFP), IP30, 0 °C...60 °C |
| Order No.           | <a href="#">1241320000</a>                                                                                                                                          |
| Type                | IE-SW-PL18M-2GC-16TX                                                                                                                                                |
| GTIN (EAN)          | 4050118029079                                                                                                                                                       |
| Qty.                | 1 items                                                                                                                                                             |
| Delivery status     | This article will no longer be available in the future.                                                                                                             |
| Available until     | 2025-11-29T00:00:00+01:00                                                                                                                                           |
| Alternative product | <a href="#">IE-SW-AL24M-16GT-8GESFP</a>                                                                                                                             |

## IE-SW-PL18M-2GC-16TX

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## Technical data

## Approvals

Approvals



|                           |                            |
|---------------------------|----------------------------|
| ROHS                      | Conform                    |
| UL File Number Search     | <a href="#">UL Website</a> |
| Certificate no. (cULus)   | E230683                    |
| Certificate no. (cULusEX) | E223527                    |

## Dimensions and weights

|            |          |                 |             |
|------------|----------|-----------------|-------------|
| Depth      | 142.7 mm | 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 with exemption             |
| RoHS Exemption (if applicable/known) | 6c, 7a, 7cl                          |
| 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 |

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## Technical data

Storage temperature, min. -40 °C

## Guarantee

Time interval 5 years

## Interfaces

|                        |                                                                                            |                |                                                                                                                                                                                           |
|------------------------|--------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fibre-optic ports      | 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        | 16 * RJ45<br>10/100BaseT(X),<br>2 * combo-ports<br>(10/100/1000BaseT(X)<br>or 1000BaseSFP) | Digital inputs | 2 inputs with the same ground, isolated <ul style="list-style-type: none"> <li>+13 To +30 V for logic "1"</li> <li>-30 To +3 V for logic "0"</li> <li>Max. input current: 8 mA</li> </ul> |
| LED indicator          | PWR1, PWR2, FAULT, MSTR/HEAD, CPLR/TAIR, 10/100M (TP-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, Event based warning via SNMP trap |
| 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      | 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,                                                                                                                                                                                               |

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EtherNet/IP, Modbus/TCP  
slave

## Technical data

## 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                           | 0.51 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), IEEE 802.3ab 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 8.0    | EC000734    | ETIM 9.0    | EC000734    |
| ETIM 10.0   | EC000734    | 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.  | <a href="#">1241430000</a> | 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.  | <a href="#">1241440000</a> | 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.  | <a href="#">1241490000</a> | 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.  | <a href="#">1286700000</a> | 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.  | <a href="#">1241500000</a> | 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.  | <a href="#">1286710000</a> | 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.  | <a href="#">1241510000</a> | 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.  | <a href="#">1286720000</a> | 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.  | <a href="#">1241520000</a> | 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.  | <a href="#">1286730000</a> | SFP Transceiver, 1000 Mbps, Singlemode, LC-Duplex, 40 km, -40     |
| GTIN (EAN) | 4050118077728              | °C...85 °C                                                        |
| Qty.       | 1 ST                       |                                                                   |