

**IE-SW-VL08MT-6TX-2SC****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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

The Value Line from Weidmüller consists of unmanaged and managed switches in a high-quality IP 30 protected metal housing. The equipment can be delivered with Fast Ethernet and Gigabit Ethernet ports. Value Line managed switches support a variety of helpful management functions, such as fast ring redundancy, port-based VLAN, QoS, RMON, bandwidth management, port mirroring and error notification via e-mail or a relay. The ring redundancy can be simply set via the web based management interface, or with a dip switch found on the top of the switch.

- Unmanaged Plug & Play switches in a high-quality metal housing (IP 30)
- Price-conscious middle-range
- Managed switches for the entry into a configurable network infrastructure
- Unmanaged full Gigabit switch with 8 ports
- Approvals: CE, FCC, cULus, Class I Div. 2 / ATEX, DNV / GL

**General ordering data**

|            |                                                                                                          |
|------------|----------------------------------------------------------------------------------------------------------|
| Version    | Network switch, managed, Fast Ethernet, Number of ports: 6x RJ45, 2x SC Multi-mode, IP30, -40 °C...75 °C |
| Order No.  | <a href="#">1344770000</a>                                                                               |
| Type       | IE-SW-VL08MT-6TX-2SC                                                                                     |
| GTIN (EAN) | 4050118147001                                                                                            |
| Qty.       | 1 pc(s).                                                                                                 |

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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 |
| Net weight     | 890 g     | Width           | 53.6 mm    |
| Width (inches) | 2.11 inch |                 |            |

## Temperatures

|                     |                            |                       |                |
|---------------------|----------------------------|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C             | Operating temperature | -40 °C...75 °C |
| Humidity            | 5 to 95 % (non-condensing) |                       |                |

## Environmental Product Compliance

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

## EMC conformity and approvals

|               |                                                                                                                                                                                                                                                                                          |                     |                                                                                   |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------|
| 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 | 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, UL 60950-1, EN 60950-1                                                     |
| 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. | 75 °C |
| Operating temperature, min. | -40 °C                     | Storage temperature, max.   | 85 °C |
| Storage temperature, min.   | -40 °C                     |                             |       |

## Fibre optic transceiver characteristics

|                             |               |
|-----------------------------|---------------|
| Transmission rate           | 100 Mbps      |
| Transceiver type            | Multimode     |
| Connector type              | SC-Duplex     |
| Transmission distance, typ. | 5 km          |
| Wavelength                  | typ. 1,300 nm |
|                             | Wavelength TX |
|                             | min. 1,260 nm |
|                             | max. 1,360 nm |
|                             | Wavelength RX |
|                             | min. 1,100 nm |
|                             | max. 1,600 nm |
| Receive power               | min. -32 dBm  |
|                             | max. -3 dBm   |

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|                    |      |         |
|--------------------|------|---------|
| Transmission power | min. | -20 dBm |
|                    | max. | -10 dBm |

## Guarantee

|               |         |
|---------------|---------|
| Time interval | 5 years |
|---------------|---------|

## Interfaces

|                 |                                                          |                        |                                                                                      |
|-----------------|----------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------|
| Alarm contact   | 1 relay output with a current capacity of 1 A at 24 V DC | Console port interface | RS-232                                                                               |
| DIP switch      | Turbo-Ring, Master, Coupler, Reserve                     | LED indicator          | PWR1, PWR2, FAULT, MSTR/HEAD, CPLR/TAIL, 10/100M (TP-Port), 100M (fibre-optic port). |
| Number of ports | 6x RJ45, 2x SC Multi-mode                                | RJ45 ports             | 10/100BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port        |

## MTBF

|      |               |          |                          |
|------|---------------|----------|--------------------------|
| MTBF | 1,277,138 hrs | Database | Telcordia (Bellcore), GB |
|------|---------------|----------|--------------------------|

## 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 ms), Turbo-Chain (recovery time <20 ms) | 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, Loop protection                                                                                                                                                                                   |
| Time synchronization management | SNTP client, NTP client                                                                                                                  | Industrial protocol support | PROFINET device acc. to conformance class B, EtherNet/IP, Modbus/TCP slave                                                                                                                                                                 |

## Power supply

|                             |                                   |         |
|-----------------------------|-----------------------------------|---------|
| Connection type             | 1 removable 6-pin terminal block  |         |
| Current consumption         | Voltage                           | 24 V DC |
|                             | Current                           | 0.35 A  |
| Overload current protection | Yes                               |         |
| Reverse polarity protection | Yes                               |         |
| Supply voltage, max.        | 60 V DC                           |         |
| Voltage supply              | 12/24/48 V DC, 2 redundant inputs |         |

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| Voltage supply range | Voltage type  | DC    |
|                      | Voltage, min. | 9.6 V |
|                      | Voltage, max. | 60 V  |

## Switch characteristics

|                     |          |                                |     |
|---------------------|----------|--------------------------------|-----|
| Bandwidth backplane | 1.6 Gbps | IGMP-Groups                    | 256 |
| MAC table size      | 8 K      | Max. number of available VLANs | 64  |
| Packet buffer size  | 1 Mbit   | Priority queues                | 4   |
| VLAN-ID max         | 4,094    | VLAN-ID min                    | 1   |

## Technical data

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

## Technology

|                |                                                                                          |              |                                                                                                                                                                                                                                             |
|----------------|------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Data switching | Store and Forward                                                                        | Flow control | IEEE 802.3x flow control, Back pressure flow control                                                                                                                                                                                        |
| MIB            | MIB-II, Ethernet-Like MIB, P-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9 | Standard     | IEEE 802.3 for 10BaseT, IEEE 802.3u for 100BaseT(X) and 100BaseFX, IEEE 802.3x for flow control, IEEE 802.1D-2004 for the Spanning Tree protocol, IEEE 802.1w for Rapid STP, IEEE 802.1p for Class of Service, IEEE 802.1Q for VLAN tagging |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000734    | ETIM 7.0    | 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 |

## Approvals

Approvals



|                       |         |
|-----------------------|---------|
| ROHS                  | Conform |
| UL File Number Search | E141197 |

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### Downloads

|                                             |                                                                                                                                                                                                                        |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">ODVA Certificate</a><br><a href="#">ATEX certificate</a><br><a href="#">EU Declaration of Conformity</a>                                                                                                   |
| Engineering Data                            | <a href="#">STEP</a>                                                                                                                                                                                                   |
| Engineering Data                            | <a href="#">EPLAN, WSCAD, Zuken E3.S</a>                                                                                                                                                                               |
| Product Change Notification                 | <a href="#">Firmware Release Notes</a><br><a href="#">Product Change Notification IE-SW-VL08MT-series</a>                                                                                                              |
| Software                                    | <a href="#">SNMP MIB file</a><br><a href="#">GSDML IE-SW-VL08M-series</a><br><a href="#">EDS IE-SW-VL08M-series</a><br><a href="#">Managed Switch Configuration Utility</a><br><a href="#">Firmware Version 3.5.22</a> |
| User Documentation                          | <a href="#">Hardware Installation Guide</a><br><a href="#">Manual</a><br><a href="#">20191204 Security Advisory IE Managed Switches</a>                                                                                |