

## IE-SW-VL05MT-5TX

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## Product image



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: 5x RJ45, IP30, -40 °C...75 °C |
| Order No.  | <a href="#">1504310000</a>                                                             |
| Type       | IE-SW-VL05MT-5TX                                                                       |
| GTIN (EAN) | 4050118312416                                                                          |
| Qty.       | 1 items                                                                                |

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## Technical data

## Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate no. (cULus) E230683

Certificate no. (cULusEX) E344136

## Dimensions and weights

|            |         |                 |             |
|------------|---------|-----------------|-------------|
| Depth      | 105 mm  | Depth (inches)  | 4.1338 inch |
| Height     | 135 mm  | Height (inches) | 5.3149 inch |
| Width      | 53.6 mm | Width (inches)  | 2.1102 inch |
| Net weight | 650 g   |                 |             |

## Temperatures

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

## Environmental Product Compliance

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status               | Compliant with exemption             |
| RoHS Exemption (if applicable/known) | 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                                                                                                                                                                                                                                        | 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. | 75 °C                      | Operating temperature, min. | -40 °C |
| Humidity                    | 5 to 95 % (non-condensing) | Storage temperature, max.   | 85 °C  |
| Storage temperature, min.   | -40 °C                     |                             |        |

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## Guarantee

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

## Interfaces

|                     |                                                                               |                        |                                                            |
|---------------------|-------------------------------------------------------------------------------|------------------------|------------------------------------------------------------|
| RJ45 ports          | 10/100BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port | Console port interface | RS-232                                                     |
| Function DIP switch | Turbo-Ring, Master, Coupler, Reserve                                          | Alarm contact          | 1 relay output with a current capacity of 1 A at 24 V DC   |
| Number of ports     | 5x RJ45                                                                       | LED indicator          | PWR1, PWR2, FAULT, MSTR/HEAD, CPLR/TAIL, 10/100M (TP-Port) |

## MTBF

|      |                              |                          |
|------|------------------------------|--------------------------|
| MTBF | According to Standard        | Telcordia (Bellcore), GB |
|      | Operating time (hours), min. | 1547941 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 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

|                             |                                   |        |
|-----------------------------|-----------------------------------|--------|
| Reverse polarity protection | Yes                               |        |
| Supply voltage              | 12/24/48 V DC, 2 redundant inputs |        |
| Overload current protection | Yes                               |        |
| Connection type             | 1 removable 6-pin terminal block  |        |
| Voltage supply range        | Voltage type                      | DC     |
|                             | Voltage, min.                     | 9.6 V  |
|                             | Voltage, max.                     | 60 V   |
| Current consumption         | Voltage                           | 24 V   |
|                             | Current                           | 0.24 A |

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## 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                 | 2 K      |
| Packet buffer size | 1 Mbit | Bandwidth backplane            | 1 Gbit/s |

## Technical data

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

## Technology

|              |                                                                                          |                |                                                                                                                                                                                                                               |
|--------------|------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MIB          | MIB-II, Ethernet-Like MIB, P-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 802.3x 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 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 |             |             |