

**IE-SW-VL05MT-5TX****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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 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 |
| Width      | 53.6 mm | Width (inches)  | 2.11 inch  |
| Net weight | 650 g   |                 |            |

## Temperatures

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

## 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 |
| Free fall     | According to IEC 60068-2-32  | Safety standard     | UL508, UL 60950-1, EN 60950-1                     |
| Ship use      | DNV  | 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                     |                             |       |

## 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  |
| Function DIP switch | Turbo-Ring, Master, Coupler, Reserve                     | LED indicator          | PWR1, PWR2, FAULT, MSTR/HEAD, CPLR/TAIL, 10/100M (TP-Port)                    |
| Number of ports     | 5x RJ45  | RJ45 ports             | 10/100BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port |

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## MTBF

|      |                              |                          |
|------|------------------------------|--------------------------|
| MTBF | According to Standard        | Telcordia (Bellcore), GB |
|      | Operating time (hours), min. | 1,547,941 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

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

## Switch characteristics

|                     |          |                                |     |
|---------------------|----------|--------------------------------|-----|
| Bandwidth backplane | 1 Gbit/s | IGMP-Groups                    | 256 |
| MAC table size      | 2 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) |                   |         |

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## Technical data

## Technology

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

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000734    | ETIM 7.0    | EC000734    |
| ETIM 8.0    | EC000734    | ETIM 9.0    | 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 |

## Environmental Product Compliance

|            |                                      |
|------------|--------------------------------------|
| REACH SVHC | Lead 7439-92-1                       |
| SCIP       | 9229992a-00b9-4096-8962-200a7f33e289 |

## Approvals

Approvals



|                           |            |
|---------------------------|------------|
| ROHS                      | Conform    |
| UL File Number Search     | UL Website |
| Certificate no. (cULus)   | E230683    |
| Certificate no. (cULusEX) | E344136    |

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|   |   |
|---|---|
| Approval/Certificate/Document of Conformity | <a href="#">ODVA Certificate</a><br><a href="#">PNO Certificate</a><br><a href="#">DNV certificate</a><br><a href="#">KC certificate</a><br><a href="#">EU Declaration of Conformity</a><br><a href="#">UK Declaration of Conformity</a>  |
| Engineering Data                            | <a href="#">CAD data – STEP</a>   |
| Product Change Notification                 | <a href="#">Firmware Release Notes</a><br><a href="#">Product Change Notification IE-SW-VL05M-series</a>  |
| Software                                    | <a href="#">Software – Managed Switch Configuration Utility</a><br><a href="#">Device description – SNMP MIB file</a><br><a href="#">Device description – GSDML IE-SW-VL05M-series</a><br><a href="#">Firmware – Firmware Version 3.6.24</a><br><a href="#">Device description – EDS IE-SW-VL05M-series</a> |
| User Documentation                          | <a href="#">Hardware Installation Guide</a><br><a href="#">Manual</a><br><a href="#">20191204 Security Advisory - Multiple vulnerabilities in IE Managed Switches</a>   |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>  |
| Brochures                                   |   |

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## Accessories

## 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.  | <a href="#">1348590000</a> | 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 pc(s).                   |   |

## 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 pc(s).                   |  |

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[www.weidmueller.com](http://www.weidmueller.com)**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.  | <a href="#">1241440000</a> | Kit for 19"-rack mounting |
| GTIN (EAN) | 4050118029154              |                           |
| Qty.       | 1 pc(s).                   |                           |