

IE-SW-VL05M-3TX-2SC**Weidmüller Interface GmbH & 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: 3x RJ45, 2x SC Multi-mode, IP30, 0 °C...60 |
| Order No. | 1504330000 |
| Type | IE-SW-VL05M-3TX-2SC |
| GTIN (EAN) | 4050118312225 |
| Qty. | 1 pc(s). |
| Delivery status | This article will no longer be available in the future. |
| Available until | 2022-06-01 |
| Alternative product | 2682260000 |

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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 | 0 °C...60 |
| 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 | |
| Free fall | According to IEC 60068-2-32 | Safety standard | UL/cUL, Class I, Division 2, Groups A, B, C and D 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. | 60 |
| Operating temperature, min. | 0 °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 |
| Transmission power | min. -20 dBm |
| | max. -10 dBm |

Creation date May 2, 2024 6:54:27 AM CEST

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Technical data

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 |
| Fibre-optic ports | 100BaseFX ports (SC connector), Multimode | Function 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 | 3x RJ45, 2x SC Multi-mode |
| RJ45 ports | 10/100BaseT(X), auto negotiation, Full/half-duplex mode, Auto MDI/MDI-X port | | |

MTBF

| | | |
|------|------------------------------|--------------------------|
| MTBF | According to Standard | Telcordia (Bellcore), GB |
| | Operating time (hours), min. | 1,429,327 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 0.32 A |
| Overload current protection | Existing |
| Reverse polarity protection | Yes |
| Voltage supply | 12/24/48 V DC, 2 redundant inputs |

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Technical data

| | | |
|----------------------|---------------|-------|
| 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) | | |

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 |
| 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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www.weidmueller.com**Technical data****Downloads**

| | |
|---|---|
| Approval/Certificate/Document of Conformity | ODVA Certificate EU Declaration of Conformity |
| Engineering Data | CAD data – STEP |
| Engineering Data | Zuken E3.S |
| Product Change Notification | Firmware Release Notes Product Change Notification IE-SW-VL05M-series |
| Software | Software – Managed Switch Configuration Utility Device description – SNMP MIB file Device description – GSDML IE-SW-VL05M-series Firmware – Firmware Version 3.6.24 Device description – EDS IE-SW-VL05M-series |
| User Documentation | Hardware Installation Guide Manual 20191204 Security Advisory - Multiple vulnerabilities in IE Managed Switches |
| Catalogues | Catalogues in PDF-format |
| Brochures | |

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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. | 1241440000 | Kit for 19"-rack mounting |
| GTIN (EAN) | 4050118029154 | |
| Qty. | 1 pc(s). | |

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. | 1348590000 | 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). | |

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www.weidmueller.com**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 pc(s). | |