

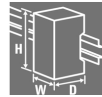
IE-MC-VL-1TX-1SCS**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image**Industrial Fast Ethernet media converter**

- 10/100BaseT(X) auto-negotiation and auto MDI/MDI-X
- Link Fault Pass-Through (LFP)
- Warning in event of power failure and port failure
- Redundant power supply inputs
- -40 to 75 °C operating temperature (T models)
- Designed for explosive-risk areas (Class 1 Div. 2/Atex Zone 2)

General ordering data

| | |
|------------|--|
| Version | Media converter, Fast Ethernet, Number of ports: 1x RJ45, 1 * SC Single-mode, IP30, 0 °C...60 °C |
| Order No. | 1241420000 |
| Type | IE-MC-VL-1TX-1SCS |
| GTIN (EAN) | 4050118029185 |
| 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 | 765 g | | |

Temperatures

| | | | |
|---------------------|----------------------------|-----------------------|--------------|
| Storage temperature | -40 °C...85 °C | Operating temperature | 0 °C...60 °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 bis 1 GHz: 3 V/m, IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV, IEC 61000-4-5 Surge: Power: 1 kV; Signal: 1 kV, IEC 61000-4-6 CS: 3 V/m, IEC 61000-4-8, IEC 61000-4-11 | 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 |
| 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 °C |
| 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 | Singlemode | | |
| Connector type | SC-Duplex | | |
| Transmission distance, typ. | 40 km | | |
| Wavelength | typ. | 1,310 nm | |
| | Wavelength | TX | |
| | min. | 1,280 nm | |
| | max. | 1,340 nm | |
| | Wavelength | RX | |
| | min. | 1,100 nm | |
| | max. | 1,600 nm | |
| Receive power | min. | -34 dBm | |
| | max. | -3 dBm | |

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| | | |
|--------------------|---|--------|
| Transmission power | min. | -5 dBm |
| | max. | 0 dBm |
| Link-budget | 29 dB | |
| Note | When connecting a single-mode fiber transceiver over a short distance, we recommend using an attenuator to prevent the transceiver from being damaged by excessive optical power. | |

Guarantee

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

Interfaces

| | | | |
|---------------------|--|-------------------|---|
| Alarm contact | 1 relay output with a current capacity of 1 A at 24 V DC | Fibre-optic ports | 100BaseFX ports (SC connector), Singlemode |
| Function DIP switch | 100BaseFX full-/half-duplex mode, Port surveillance | LED indicator | PWR1, PWR2, FAULT, 10/100M (TP-Port), 100M (fibre-optic port), FDX/COL (Fibre port) |
| Number of ports | 1x RJ45, 1 * SC Single-mode | RJ45 ports | 10/100BaseT(X) |

MTBF

| | | |
|------|------------------------------|------------------------|
| MTBF | According to Standard | MIL-HDBK-217F, GB 25°C |
| | Operating time (hours), min. | 401,000 h |

Power supply

| | | |
|-----------------------------|----------------------------------|--------|
| Connection type | 1 removable 6-pin terminal block | |
| Current consumption | Voltage | 12 V |
| | Current | 0.32 A |
| | Voltage | 24 V |
| | Current | 0.16 A |
| Overload current protection | 1.1 A | |
| Reverse polarity protection | Available | |
| Voltage supply | 24 V DC, 2 redundant inputs | |
| Voltage supply range | Voltage type | DC |
| | Voltage, min. | 12 V |
| | Voltage, max. | 45 V |

Technical data

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

Technology

| | |
|----------|---|
| Standard | IEEE 802.3 for 10BaseT, IEEE 802.3u for 100BaseT(X) and 100BaseFX |
|----------|---|

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Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC001467 | ETIM 7.0 | EC001467 |
| ETIM 8.0 | EC001467 | ETIM 9.0 | EC001467 |
| ECLASS 9.0 | 19-17-01-14 | ECLASS 9.1 | 19-17-01-14 |
| ECLASS 10.0 | 19-17-01-32 | ECLASS 11.0 | 19-17-01-32 |
| ECLASS 12.0 | 19-17-01-32 | ECLASS 13.0 | 19-17-01-14 |

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) | E223527 |

Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | DNV certificate ATEX certificate KC certificate EU Declaration of Conformity UK Declaration of Conformity |
| Engineering Data | CAD data – STEP |
| User Documentation | Hardware Installation Guide |
| Catalogues | Catalogues in PDF-format |
| Brochures | |

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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). | |

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). | |

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www.weidmueller.com**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. | 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). | |