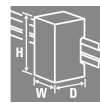


**IE-MC-VL-1TX-1ST****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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 * ST Multi-mode, IP30, 0 °C...60 °C |
| Order No.  | <a href="#">1241410000</a>                                                                      |
| Type       | IE-MC-VL-1TX-1ST                                                                                |
| GTIN (EAN) | 4050118029321                                                                                   |
| Qty.       | 1 items                                                                                         |

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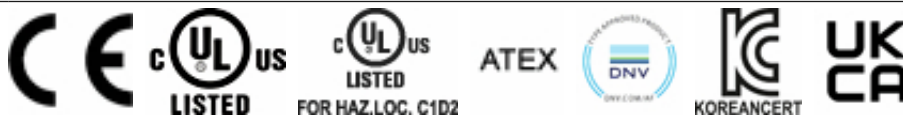
Germany

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## Technical data

## Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate no. (cULus) E141197

Certificate no. (cULusEX) E223527

## 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 | 765 g   |                 |             |

## Temperatures

|                     |                            |                       |              |
|---------------------|----------------------------|-----------------------|--------------|
| Storage temperature | -40 °C...85 °C             | Operating temperature | 0 °C...60 °C |
| Humidity            | 5 to 95 % (non-condensing) |                       |              |

## Environmental Product Compliance

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status               | Compliant with exemption             |
| RoHS Exemption (if applicable/known) | 6c, 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, ATEX Zone 2 Ex nA nC IIC T4 Gc                                                                                                                                                                                                                         | 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 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 | 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                                                                                                                                                                                                                                                                             |           |                             |

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## Technical data

## Environmental conditions

|                             |                            |                             |       |
|-----------------------------|----------------------------|-----------------------------|-------|
| Operating temperature, max. | 60 °C                      | Operating temperature, min. | 0 °C  |
| Humidity                    | 5 to 95 % (non-condensing) | Storage temperature, max.   | 85 °C |
| Storage temperature, min.   | -40 °C                     |                             |       |

## Fibre optic transceiver characteristics

|                             |            |         |
|-----------------------------|------------|---------|
|                             |            |         |
| Transmission rate           | 100 Mbps   |         |
| Transceiver type            | Multimode  |         |
| Connector type              | ST-Duplex  |         |
| Transmission distance, typ. | 5 km       |         |
| Wavelength                  | typ.       | 1300 nm |
|                             | Wavelength | TX      |
|                             | min.       | 1260 nm |
|                             | max.       | 1360 nm |
|                             | Wavelength | RX      |
|                             | min.       | 1100 nm |
|                             | max.       | 1600 nm |
|                             |            |         |
| Receive power               | min.       | -32 dBm |
|                             | max.       | -3 dBm  |
| Transmission power          | min.       | -20 dBm |
|                             | max.       | -10 dBm |
| Link-budget                 | 12 dB      |         |

## Guarantee

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

## Interfaces

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

## MTBF

|      |                              |                        |
|------|------------------------------|------------------------|
| MTBF | According to Standard        | MIL-HDBK-217F, GB 25°C |
|      | Operating time (hours), min. | 401000 h               |

## Power supply

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

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[www.weidmueller.com](http://www.weidmueller.com)**Technical data**

Current

0.16 A

**Technical data**

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

**Technology**

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

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC001467    | ETIM 9.0    | EC001467    |
| ETIM 10.0   | EC001467    | ECLASS 14.0 | 19-17-01-32 |
| ECLASS 15.0 | 19-17-01-32 |             |             |

## IE-MC-VL-1TX-1ST

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## 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.  | <a href="#">1241430000</a> | Configuration module, IP40, 0 °C...60 °C |
| GTIN (EAN) | 4050118029086              |                                          |
| Qty.       | 1 ST                       |                                          |

### 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 ST                       |                           |

### 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

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|            |                            |                                                                         |
|------------|----------------------------|-------------------------------------------------------------------------|
| 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 ST                       |                                                                         |