

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 items

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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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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	Singlemode		
Connector type	SC-Duplex		
Transmission distance, typ.	40 km		
Wavelength	typ.	1310 nm	
	Wavelength	TX	
	min.	1280 nm	
	max.	1340 nm	
	Wavelength	RX	
	min.	1100 nm	
Receive power	min.	-34 dBm	
	max.	-3 dBm	
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
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Interfaces

Fibre-optic ports	100BaseFX ports (SC connector), Singlemode	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 * SC Single-mode	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

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Current	0.32 A
Voltage	24 V
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, IEEE 802.3u for 100BaseT(X) and 100BaseFX
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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		

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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.	1241430000	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.	1241440000	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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Accessories

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 ST	