Data sheet

IE-CS-MBGW-2TX-1COM

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com



Serial/Ethernet converter and Modbus TCP/RTU protocol gateway

- Integrated 2-port switch for line topology without need for additional switch
- Device server and modbus protocol gateway in one device
- Suitable for use in harsh industrial environment thanks to rugged design and wide operating temperature range of -40°C up to 70°C

General ordering data

Version	Serial/Ethernet converter and Modbus TCP/RTU gateway, Number of ports: 2x RJ45 10/100BASE-T(X), 1x DB9 male for RS-232/422/485, IP30, -40 °C...70 °C
Order No.	2682600000
Type	IE-CS-MBGW-2TX-1COM
GTIN (EAN)	4050118692112
Qty.	1 items

IE-CS-MBGW-2TX-1COM

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Technical data

Approvals

Approvals	
ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E141197

Dimensions and weights

Depth	75.2 mm	Depth (inches)	2.9606 inch
Height	110 mm	Height (inches)	4.3307 inch
Width	26.1 mm	Width (inches)	1.0276 inch
Net weight	251 g		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-40 °C...70 °C
Humidity	5 to 95 % (non-condensing)		

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cI
REACH SVHC	Lead 7439-92-1, Lead monoxide 1317-36-8
SCIP	9229992a-00b9-4096-8962-200a7f33e289

EMC conformity and approvals

Free fall	According to IEC 60068-2-31	EMC standards	EN 55032, EN 55024, FCC Part 15 Subpart B Class A, IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV, IEC 61000-4-3 RS: 80 MHz bis 1 Ghz: 3 V/m, IEC 61000-4-4 EFT: Power: 0.5 kV; Signal: 0.5 kV, IEC 61000-4-5 Surge: Power: 0,5 kV; Signal: 1 kV, IEC 61000-4-6 CS: 3 Vrms
Vibration	according to IEC 60068-2-6	Shock	according to IEC 60068-2-27
Safety standard	UL 61010-1, UL 61010-2-201, SELV according to EN 62368-1		

Environmental conditions

Operating temperature, max.	70 °C	
Operating temperature, min.	-40 °C	
Humidity	5 to 95 % (non-condensing)	
Storage temperature, max.	85 °C	
Storage temperature, min.	-40 °C	
Operating altitude	Altitude, max.	2000 m
	Note	in acc. with UL
	Altitude, max.	6000 m

IE-CS-MBGW-2TX-1COM

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Technical data

	Note	for restrictions, see the manufacturer's declaration for operating altitude in section downloads	

Guarantee

Time interval	5 years

Interfaces

RJ45 ports	10/100BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port	Function DIP switch	1x for pull high resistor settings, 1x for pull low resistor settings, 1x for termination resistor settings
Number of ports	2x RJ45 10/100BASE-T(X), 1x DB9 male for RS-232/422/485	Function reset button	<5 sec: System reboot, >5 sec: Factory default

MTBF

MTBF	According to Standard	Telcordia SR-332
	Operating time (hours), min.	1479078 h

Management features

Device configuration	Webbrowser (HTTP/HTTPS), Command Line Interface (SSH), Upload of a configuration file via web-interface	Monitoring function	Modbus traffic monitor, Syslog, Event based warning via E-Mail, Event based warning via SNMP trap
IP-address management	Static, DHCP-Client, BootP	Security functions	Enable/disable ports, Management access security via secure IP-list and configuration of allowed access methods (web-interface, SSH)
Time synchronization management	SNTP client	Operating modes	Virtual COM mode, TCP Server mode, TCP Client mode, UDP Server/Client mode, Modbus RTU/ASCII Master to Modbus TCP Slave Gateway, Modbus TCP Master to Modbus RTU/ASCII Slave Gateway

Power supply

Reverse polarity protection	Yes	
Supply voltage	12/24/48 V DC, 2 redundant inputs	
Overload current protection	Yes	
Connection type	1 removable 4-pin terminal block	
Voltage supply range	Voltage type	DC
	Voltage, min.	10.8 V
	Voltage, max.	52.8 V
Current consumption	Voltage	24 V
	Current	0.2 A

IE-CS-MBGW-2TX-1COM

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Technical data

Serial communication parameters

Flow control	XON/XOFF, RTS/CTS and DTR/DSR (RS-232)	Baud rate	110 bit/s to 460800 bit/s
Parity	none, odd, even, Mark, Space	Stop bits	1, 2
Data bits	7, 8		

Technical data

Housing main material	Metal	Type of mounting	DIN rail, Wall mounting, Mounting plate
Protection degree	IP30		

Technology

Flow control	XON/XOFF, RTS/CTS and DTR/DSR (RS-232)	Standard	IEEE 802.3 for 10BASE-T, IEEE 802.3u for 100BASE-TX

Classifications

ETIM 8.0	EC000310	ETIM 9.0	EC000310
ETIM 10.0	EC000310	ECLASS 14.0	19-17-01-32
ECLASS 15.0	19-17-01-32		

IE-CS-MBGW-2TX-1COM

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

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 ST	