Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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RS-422/485 Isolated Repeater

485OPDR

B+B SmartWorx
Powered by ADVANTECH
www.advantech-bb.com

PRODUCT FEATURES

- Extend data up to 1.2 km (4000 ft.)
- 2000V optically isolated data lines
- 600W surge suppression
- -40 to 80 °C operating temperature
- Modbus ASCII/RTU

The 485OPDR is an optically isolated RS-422/485 isolated line repeater that can be used to isolate a piece of equipment from the rest of the network. As a repeater, it extends the distance of an existing network an additional 1.2 km (4000 ft.) and expands it beyond the typical 32-node limitation. Data signals and the power inputs connect to the terminal block. 600W surge suppression ensures that the connected equipment is protected even in the harshest of environments. 2-wire RS-485, 4-wire RS-485 and RS-422 are supported. The repeater operates on externally sourced 10 to 30 VDC power. The enclosure has a DIN rail mount that is designed to fit easily on a standard 35mm rail.

ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
485OPDR	RS-422/485 2 kV Isolated Repeater

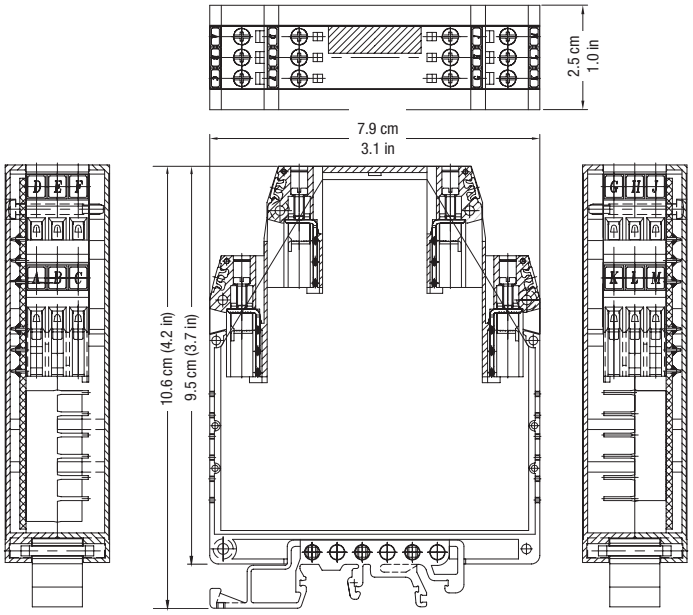
ACCESSORIES

MDR-20-24 - DIN rail mount power supply 24VDC, 1.0 A output power

MDR-40-24 - DIN rail mount power supply 24VDC, 1.7 A output power

DRPM25 - 35mm DIN rail to panel mount bracket, 25mm wide

EK-CLIP-MPC - DIN rail clip for enclosure



SPECIFICATIONS

RS-422/485	
Connector	Terminal Block
Signals	TDA(-), TDB(+), RDA(-), RDB(+), GND RS-422 4-wire, RS-485 2-wire and 4-wire Protected GND on Isolated Side
ISOLATION	
Method	Optical
Rating	2000 V
SURGE SUPPRESSION	
Method	TVS
Rating	6.5V bi-directional avalanche breakdown device 500W peak power dissipation
Response Time	< 1 pico-second
INDUSTRIAL BUS	
	Modbus ASCII/RTU
POWER	
Connector	Terminal block
Voltage	10 to 30 VDC
Power Consumption	0.7 W
TERMINAL BLOCKS	
Wire Size	24 to 14 AWG
Torque	4 kgf-cm
LED INDICATORS	
2 Data LEDs (Red)	Data LED for each side of isolator Flashes when data transmitted
ENCLOSURE	
Material	Plastic
IP Rating	20
Dimensions	2.5 x 7.9 x 9.5 cm (1.0 x 3.1 x 3.7 in)
Mounting	35 mm DIN Rail (Panel Mount Adapter is available)
ENVIRONMENTAL	
Operating Temperature	-40 to 80 °C (-40 to 176 °F)
Storage Temperature	-40 to 85 °C (-40 to 185 °F)
Operating Humidity	0 to 95% Non-condensing
MTBF	225299 hours
MTBF Calculation Method	MIL217F Parts Count Reliability
Agency Approvals	CE, FCC cULus Recognized, File E222870

All product specifications are subject to change without notice.

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