# BB-2320PDRI

## **Industrial RS-232 Isolated Repeater**



#### **Features**

- Extend RS-232 data another 15.2 m
- 2000 V 3-way optical isolation
- Data rates up to 115.2 kbps
- -40 to +80 °C wide operating temperature
- DIN rail mount IP30 case
- 10 to 48 VDC input power (power supply required, sold separately)
- UL C1/D2, UL 508, FCC, CE

#### Introduction

Model BB-2320PDRI is Advantech's premium RS-232 isolated repeater. IT is UL Listed and Class 1/Division 2 certified for rugged industrial environments. Powerful optical isolation on both data ports protects equipment and data from damaging ground loops and surges. Additional isolation on power supply circuits adds a third degree of protection.

The BB-2320PDRI has a wide temperature range, IP30 plastic case and 35mm DIN rail mount bracket. It can be integrated into control panels or other industrial equipment.

Installation and configuration is easy. Data is connected with a DB9 female connector (DCE) and a DB9 male connector (DTE). Power is connected through a terminal block that accepts 10 to 48 Vdc from an external source. Power supply required, not included, sold separately.

### **Ordering Information**

Model No.	Description
BB-2320PDRI	Industrial RS-232 Isolated Repeater

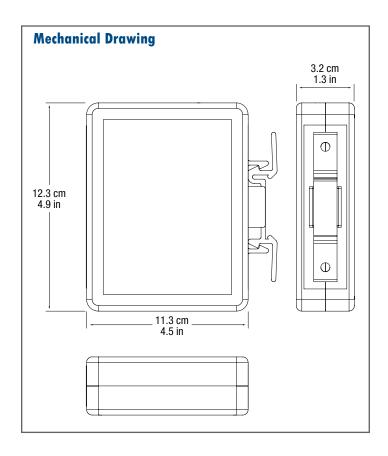
#### **Accessories - Sold Separately**

BB-DR-20-24 – DIN rail mount power supply, 24VDC, 1.0 A output power BB-EK-CLIP-MPC – Replacement DIN rail clip for enclosure BB-TBKT1– Replacement terminal block - 2-position, 5.08mm, 8A, 300V

## **Specifications**

Data Rate Up to Isolation 2 kV  Power  Power Source Exter  Power Connector 2-po	Female (DCE), DB9 Male (DTE) o 115.2 Kbps RMS, 1 minute rnal source sition removable terminal block
Data Rate Up to Isolation 2 kV  Power  Power Source Exter  Power Connector 2-po	nal source sition removable terminal block
Isolation   2 kV   Power	RMS, 1 minute  rnal source sition removable terminal block
Power Source Exter Power Connector 2-po	rnal source sition removable terminal block
Power Source Exter Power Connector 2-po	sition removable terminal block
Power Connector 2-po	sition removable terminal block
Input Voltage 10 to	o 48 Vdc (56 Vdc, maximum)
Power Consumption 0.6 \	N, typical
Terminal Blocks	
Wire Size Accepted 28 to	o 12 AWG, Copper wire only
Pitch 5.08	mm
Insulation Resistance ≥50	0 MΩ @ 500 Vdc
Maximum Torque 5 Kg	/ cm
LED Indicators	
Power Red	LED
TD / RD Red	LED TD, RD, CTS, RTS
Mechanical	
Dimensions 12.3	x 11.3 x 3.2 cm
Enclosure IP30	plastic, 35 mm, DIN mount
Weight 195	piastic, 33 mm, Din mount

Environmental		
Operating Temperature	-40 to +80 °C	
Storage Temperature	-40 to +85 °C	
Operating Humidity	0 to 95%, non-condensing	
Meantime Between Failures (MTBF)		
MTBF	177250 hours	
Calculation Method	Parts Count Reliability Prediction	
Regulatory – Approvals / Standards / Directives		
FCC, CE, UL C1/D2 File Number E245458, UL 508 File Number E222870		
CE - Directives	2014/30/EU - Electromagnetic Compatibility Directive 2011/65/EU - amended by (EU) 2015/863 Reduction of Hazardous Substances Directive (RoHS) 2012/19/EU - Waste Electrical and Electronic Equipment (WEEE)	
CE - Standards	EN 55032 Class B - Electromagnetic compatibility of multimedia equipment - emission requirements EN 55024 - Information technology equipment - immunity requirements	
EN 61000-6-1	Generic immunity standard of residential, commercial and light industrial environments	



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