



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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Port-Powered RS-232 to RS-422 Converter

Model 422LP25R

B+B SMARTWORX

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PRODUCT FEATURES

- Extend RS-232 data signals up to 1.2 km (4,000 ft.)
- Change RS-232 TD and RD to balanced RS-422 signals
- Baud rates up to 115.2 kbps
- Powered from RS-232 handshake lines - no power supply required

Model 422LP25R, RS-232 to RS-422 converter, converts unbalanced RS-232 signals to balanced RS-422 signals. The power used for this converter is derived from the Transmit Data line (pin 2) and the Handshake Control Lines (pins 4, 5, 6, 8, and 20). The converter can derive power from these lines when they are in the positive or negative voltage state. This permits the converter to be used in applications without regard to software control of the handshake lines.

If no handshake lines are available and all power must be derived from the Transmit Data line, the converter can drive limited cable lengths. A guide for this condition would be to drive only several hundred feet of transmission line and not to terminate the transmission line with a resistor of less than 1000 Ohms. When more handshake lines are available, longer lengths of cable can be driven. This converter has been tested at 115.2k baud with 4000 feet (1220 meters) of cable.

ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION	RS-232	RS-422
422LP25R	RS-232 to RS-422 Converter	DB25 Female	DB25 Male

ACCESSORIES

232AMF5 - DB25 Male to DB25 Female, 6 ft. (1.8 m)

232AMM5 - DB25 Male to DB25 Male, 6 ft. (1.8 m)

SPECIFICATIONS

SERIAL TECHNOLOGY	
Data Rate	115.2 kbps maximum
RS-232 Connector	DB25 female (DCE device)
RS-422 Connector	DB25 male (EIA-530 pinouts)
Operation	RS-422, 4-wire
Signals	Converts 8 channels of RS-232 to RS-422
Biasing Resistors	4.7k Ohms
Termination	None
POWER	
Power Requirement	10 to 30 VDC @ 200 m
Source	Port-powered from RS-232 handshake lines.
MEANTIME BEFORE FAILURE	
MTBF	562068 hours
MTBF Calc. Method	MIL 217F Parts Count Reliability Prediction

SPECIFICATIONS - continued

MECHANICAL	
Dimensions	5.4 x 6.2 x 1.5 cm (2.1 x 2.4 x 0.6 in)
ENVIRONMENTAL	
Operating Temperature	0 to +70 °C (+32 to +158 °F)
Storage Temperature	-40 to +85 °C (-40 to +185 °F)
Operating Humidity	0-95% Non-Condensing
APPROVALS / CERTIFICATIONS	
FCC, CE	
2014/30/EU	Electromagnetic Compatibility Directive
2011/65/EU	Reduction of Hazardous Substances Directive (RoHS)
2012/18/EU	Waste Electrical and Electronic Equipment (WEEE)

All product specifications are subject to change without notice.

422LP25R_2917ds

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