TTL to RS-422 Converter

Model BB-422TTL



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PRODUCT FEATURES

- Convert 2 channels in each direction from TTL ("Transistor Transistor Logic)" to RS-422
- 5V TTL
- Baud rates up to 115.2 kbps
- Quick, inline installation
- Open pads to change pin configuration
- · Power supply required (sold separately)

Model BB-422TTL converts RS-422 or EIA-530 signals to 5V TTL at data rates up to 115.2 kbps. Two channels are used to convert RS-422 to TTL and two channels are used to convert TTL to RS-422.

A DB25 male connector is used on the TTL side and a DB25 female connector is used on the RS-422/EIA-530 side. The converter supports RD, TD, RTS, and CTS. Pin 7 is signal ground for both connectors.

The converter supports baud rates up to 115.2 kbps. Open pads are provided for each line. If desired, you can change the pin connectors for any of the 4 channels. When converting a second RS-422 channel, use the corresponding RTS A and RTS B pins (refer to the Quick Start Guide).

The converter inverts the TTL signal. Refer to the specifications table to determine polarity. An external +12 VDC power supply is required (not included, sold separately).

ORDERING INFORMATION

MODEL NUMBER	RS-422 CONNECTOR	TTL CONNECTOR	TTL VDC	POWER SUPPLY REQUIRED
BB-422TTL	DB25 Female	DB25 Male	5V	Yes

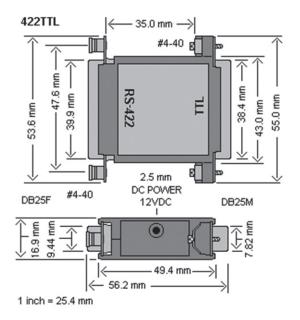
ACCESSORIES - sold separately

BB-SMI6B12V-P230C1 - Power Supply, 12 VDC 6 Watt, 2.5MM Plug, International AC Input, International AC Blades

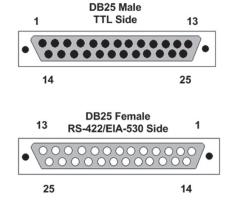
BB-232AMF5 - Serial Cable, DB25M to DB25F, 1.8 meters

MECHANICAL DIAGRAM

Units - cm/in



PINOUTS



All product specifications are subject to change without notice.

BB-422TTL 4420ds



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SPECIFICATIONS

SPECIFICATIONS	SPECIFICATIONS			
SERIAL TECHNOLOGY				
Data Rate	115.2 kbps maximum			
RS-422				
Connector	DB25 female			
Signals (EIA-530 pinout)				
TTL				
Connector	DB25 male			
Signals	TD, RD, RTS, CTS			
VDC Level	5 V			
POLARITY (VOLTS)				
TTL Input	V(A) - V(B)			
High	Negative			
Low	Positive			
TTL Output	RS-422 / EIA-530 Input			
High	Negative			
Low	Positive			
POWER				
Source	External (2.5 mm positive tip) (sold separately)			
Input Voltage	12 VDC (<100 mA)			
Output Voltage (transceiver)	Logic: -0.5V to (VCC+0.5V), max.			

MECHANICAL			
Dimensions	5.4 x 5.1 x 1.6 cm (2.1 x 2.02 x 0.62 in)		
MEANTIME BETWEEN FAILURES (MTBF)			
MTBF	1539882 hours		
MTBF Calc. Method	MIL 217F Parts Count Reliability Prediction		
ENVIRONMENTAL			
Operating Temperature	0 to +70 °C (+32 to +158 °F)		
Storage Temperature	-40 to +85 °C (-40 to +185 °F)		
REGULATORY / APPROVALS / CERTIFICATIONS			
FCC Part 15			
CE - Directives	2014/30/EU – Electromagnetic Compatibility (EMC) 2011/65/EU – Amended by (EU) 2015/863 Reduction of Hazardous Substances (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 Characteristics – Limits and Methods of Measurement		

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