# BB-422TTL



# TTL to RS-422 Converter

#### **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)

#### Introduction

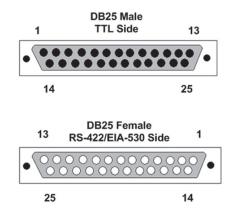
Model BB-422TTL converts RS-422 or EIA-530 signals to 5V TTL at data rates up to 115.2 kbps. Two channels are used to convert RS-422 to TTL and two channels are used to convert TTL to RS-422.

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).

## **Pinouts**



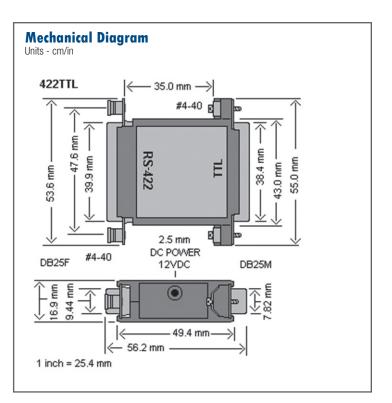
### **Ordering Information**

Model No.	RS-422 Connector	TTL Connector	TTL Vdc	Power Supply Required?
BB-422TTL	DB25 Female	DB25 Male	DB25 Female	Yes

#### Accessories - Sold Separately

BB-SMI6B12V-P230C1 – Power Supply, 12 Vdc 6 W, 2.5mm plug, International AC Input, International AC Blades (NATAM, EU, UK, Australia, China)

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



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# **Specifications**

Serial Technology			
Data Rate	Up to 115.2 Kbps baud		
RS-422 Connector	DB25 female		
RS-422 Signals (EIA-530 pinout)	TDA(-), TDB(+), RDA(-), RDB(+), RTS A(-), RTS B(+), CTS A(-), CTS B(+)		
TTL Connector	DB25 male		
TTL Signals	TD, RD, RTS, CTS		
Vdc Level	5 V		
Polarity			
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 (Not included, sold separate.)		
Input Voltage	12 Vdc (<100 mA)		
Output Voltage (transceiver)	Logic: -0.5V to (VCC+0.5V), maximum		

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		
Calculation Method	MIL 217F using 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 – A	oprovals / Standards / Directives		
FCC, Part 15			
CE - Directives	<ul> <li>2014/30/EU – Electromagnetic Compatibility (EMC)</li> <li>2011/65/EU – Amended by (EU) 2015/863 Reduction of Hazardous Substances (RoHS)</li> <li>2012/19/EU – Waste Electrical and Electronic Equipment (WEEE)</li> </ul>		
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		

