

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

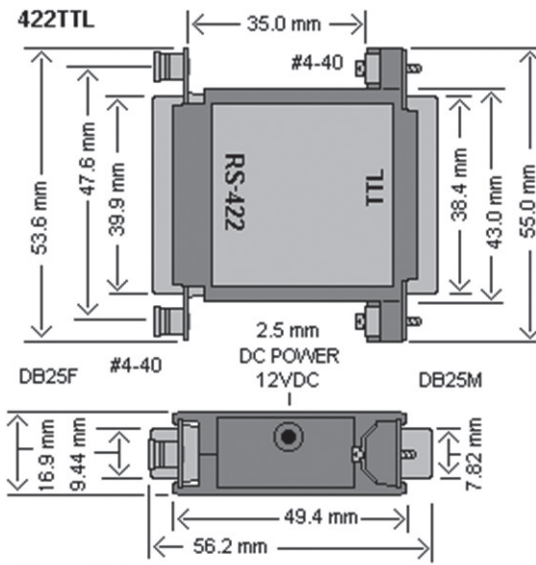
MODEL NUMBER	RS-422 CONNECTOR	TTL CONNECTOR	TTL VDC	POWER SUPPLY REQUIRED
BB-422TTL	DB25 Female	DB25 Male	5V	✓

ACCESSORIES – sold separately

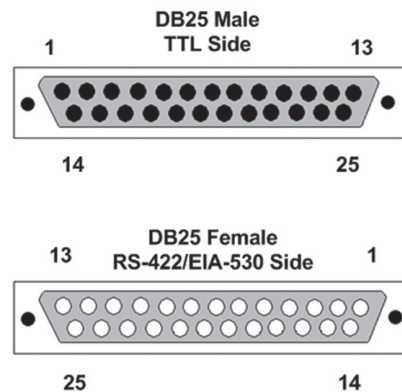
SMI6-12-V-P230-C1 - Power Supply, 12 VDC 6 Watt, 2.5MM Plug, International AC Input, International AC Blades

MECHANICAL DIAGRAM

Units - cm/in



PINOUTS



All product specifications are subject to change without notice.
BB-422TTL_2120ds

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SPECIFICATIONS

SERIAL TECHNOLOGY	
Data Rate	115.2 kbps maximum
RS-422	
Connector	DB25 female
Signals (EIA-530 pinout)	TDA(-), TDB(+), RDA(-), RDB(+), RTS A(-), RTS B(+), CTS A(-), CTS B(+)
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

SCHEMATIC

