USB to TTL Miniature Converter
Model BB-TTL3USB9M

PRODUCT FEATURES

- Connect 3.3V TTL devices to your USB port
- TTL data rate: up to 460.8 Kbps
- Quick, convenient in-line installation
- USB port-powered
- Small easily fits in laptop bag – perfect for field service
- USB 2.0 (12 Mbps) compatible
- Supports Windows 98, ME, 2000, XP, Vista, 7 (32/64 bit), 8 (32/64 bit)
- USB cable included

Universal Serial Bus (USB) has become the connectivity workhorse of today's PCs, replacing the familiar serial ports. However, many commercial and industrial devices still use the TTL interface. To connect these devices to modern PCs, you need a simple and reliable conversion solution. The BB-TTL3USB9M, USB to 3.3V TTL converter, offers this solution in a space saving, port-powered package.

Simply install the drivers supplied on CD ROM and plug the converter into an available USB port on your computer or USB hub. The device will show up as an additional COM port in the Windows Device Manager which is fully compatible with your Windows applications. A one meter USB cable is included.

ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
BB-TTL3USB9M	USB to 3.3V TTL Miniature Converter

ACCESSORIES – sold separately

BB-USBAMBM-3F - USB cable, 1 m (3 ft) (One included.)

All product specifications are subject to change without notice.
BB-TTL3USB9M_2220ds

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SPECIFICATIONS

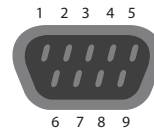| SERIAL TECHNOLOGY	
TTL	TD, RD, CTS, RTS, GND
Level	3.3V
Connector	DB9 Male
Data Rate	Up to 460.8 Kbps
USB TECHNOLOGY	
Connector	USB Type B Female
Standard	2.0 (backward compatible)
Data Rate	12 Mbps
POWER	
Source	USB Port
Input Voltage	5 VDC
Consumption	~ 0.5 W (Low power device, draws less than 100 mA)
SOFTWARE	
Driver CD	Windows 98, ME, 2000, XP, Vista, 7 (32/64 bit), 8 (32/64 bit)
MECHANICAL	
Dimensions	5.8 x 3.2 x 1.6 cm (2.3 x 1.3 x .6 in)
Enclosure	In-line mounted, plastic
Weight	104.3 g (0.23 lb) with USB cable
ENVIRONMENTAL	
Operating Temperature	0 to +70 °C (+32 to +158 °F)
Storage Temperature	-40 to +85 °C (-40 to +185 °F)
Operating Humidity	0 to 95% (non-condensing)
MEANTIME BETWEEN FAILURES (MTBF)	
TTL3USB9M	1981564 hours
MTBF Method	Parts Count Reliability Prediction

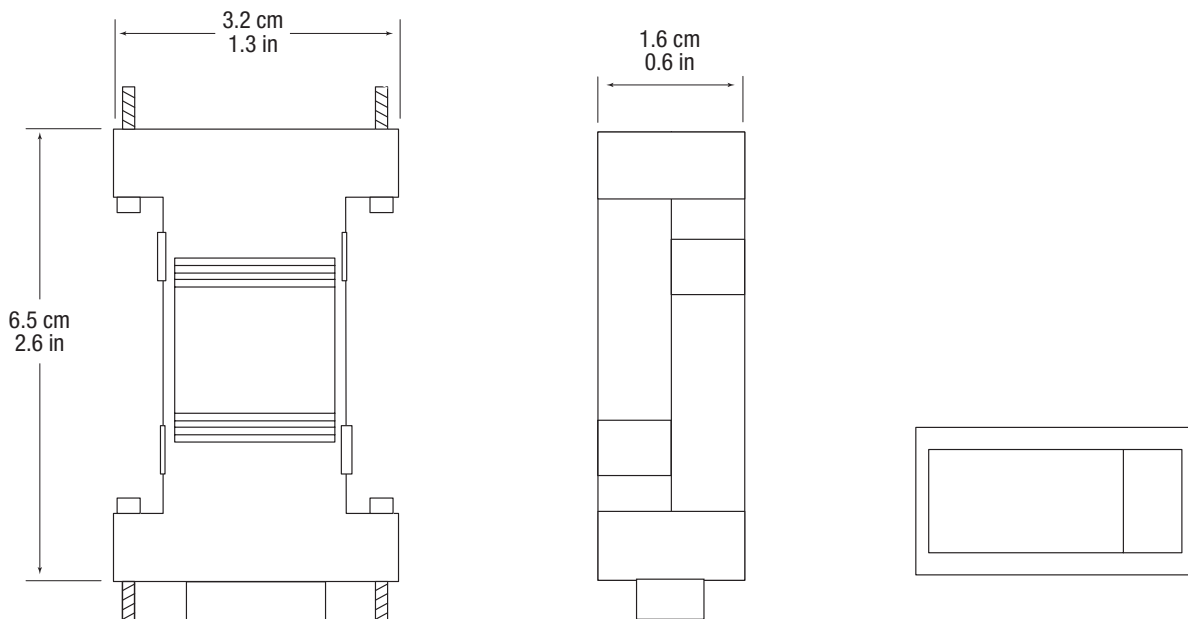| APPROVALS / DIRECTIVES / STANDARDS	
Approvals	FCC, CE
CE - Directives	2014/30/EU Electromagnetic Compatibility Directive 2011/65/EU amended by (EU) 2015/863 Reduction of Hazardous Substances Directive (RoHS) 2012/19/EU Waste Electrical and Electronic Equipment (WEEE)
CE - Standards	EMC: EN 55032 - Class B Electromagnetic Compatibility of Multimedia Equipment – Emission Requirements EN 55024 - Information Technology Equipment – Immunity Characteristics – Limits and Methods of Measurement
Standards - other	EN 61000-6-1 - Generic Immunity Standard for Residential, Commercial and Light-Industrial Environments

PINOUTS: RS-232 DB9 MALE DTE CONNECTOR

PIN	DIRECTION	SIGNAL NAME
1	---	Not Used
2	Input	RD (Receive Data)
3	Output	TD (Transmit Data)
4	---	Not Used
5	N/A	SG (Signal Ground)
6	---	Not Used
7	Output	RTS (Request to Send)
8	Input	CTS (Clear to Send)
9	---	Not Used

MECHANICAL DIAGRAM

3.2 cm / 1.3 in
1.6 cm / 0.6 in
6.5 cm / 2.6 in