



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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# USB to TTL Miniature Converters

TTL5USB9M, TTL5USB9M-LS,  
TTL3USB9M, TTL3USB9M-LS



## PRODUCT FEATURES

- Connect 5 & 3.3V TTL Devices to Your USB Port
- TTL Data Rates Up to 460.8 Kbps
- Perfect for Field Service Applications
- Small – Fits Easily Into Any Laptop Bag
- USB Port Powered
- USB 2.0 (12 Mbps) Compatible
- Supports Windows 98, ME, 2000, XP, Vista, 7 (32/64 bit), 8 (32/64 bit)
- Locked Serial Number model versions

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 TTL5USB9M and TTL3USB9M offer this solution in a space saving, USB 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. Choose the TTL5USB9M for 5V TTL and the TTL3USB9M for 3.3V TTL. Locked serial number versions are also available. A one meter USB cable is included.

## ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
<b>TTL5USB9M</b>	USB to 5V TTL Mini-Converter
<b>TTL3USB9M</b>	USB to 3.3V TTL Mini-Converter
<b>TTL5USB9M-LS</b>	USB to 5V TTL Mini-Converter (Locked Serial Number)
<b>TTL3USB9M-LS</b>	USB to 3.3V TTL Mini-Converter (Locked Serial Number)

## ACCESSORIES

USBAMB-3F - 3 ft. (1 M) USB Cable (one included)

## Locked Serial Numbers Explained

We configure our single-port USB to serial converters in two ways. In standard format, each product has a unique serial number. "Locked serial" format uses the same serial number that is associated with a model type.

If your converter will always be used with the same computer, the standard serialized model is all you need. If the converter is shared among several computers, like field service laptops, the locked serial number model lets you plug and play without having to worry about matching the two.

Description	Serialized	Locked Serial Number
Every unit is assigned a unique COM port	✓	-
Same type model numbers shares the same COM port	-	✓
Ideal applications	Fixed Locations	Field Service

When ordering Locked Serial Number versions, add a "-LS" to the item number. Serialized and Lock Serial Number versions sell for the same price.

All product specifications are subject to change without notice.  
TTL5USB9M & TTL3USB9M\_3316ds

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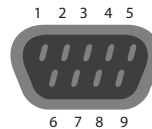


## SPECIFICATIONS

SERIAL TECHNOLOGY	
TTL	TD, RD, CTS, RTS, GND
Level	5V or 3.3V (See Ordering Information)
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	0.23 lbs (104.3 g) with USB Cable
ENVIRONMENTAL	
Operating Temperature	32 to 158 °F (0 to 70 °C)
Storage Temperature	-40 to 185 °F (-40 to 85 °C)
Operating Humidity	0 to 95% (Non-condensing)
MTBF	
TTL5USB9M	1981564 hours
TTL3USB9M	1981564 hours
MTBF Method	Parts Count Reliability Prediction
REGULATORY	
Approvals	FCC, CE

CERTIFICATIONS	
2004/108/EC	Electromagnetic Compatibility Directive
2011/65/EU	Reduction of Hazardous Substances Directive
EN 55022: +AC	Information technology equipment - Class B RF Emissions
EN 61000-6-1	Generic immunity standard for residential, commercial and light-industrial environments
EN 61000-4-2	ESD Immunity
EN 61000-4-3: +A2	Radiated Immunity
EN 61000-4-4	EFT/Burst Immunity
EN 61000-4-6	RF Conducted Immunity

## 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

