

RS232 to TTL Serial Converter - DB9, F/M

**Product ID:** IC232TTL



This RS232 to TTL converter lets you connect devices that use RS232 serial ports to devices that only communicate using transistor-transistor logic (TTL) signals. It's a convenient and cost-effective solution to convert RS232 into TTL, so you can connect equipment together based on your devices signal requirements.

This serial converter is ideal for short distance communication between two devices, and can be used to connect your computer to microcontroller-based embedded systems and industrial robotics. The reliable converter easily turns high voltage (-12 to +12V) RS232 signals into low voltage (0 to +5V) TTL signals, and provides bidirectional data communication at baud rates up to 115.2 Kbps.

With a small-footprint design and no software or drivers required, you can easily pair your TTL equipment with virtually any device that features an RS232 DB9 serial port, such as computers, and industrial control equipment. Plus, if your host device doesn't feature a native RS232 port, this versatile converter can be coupled with a USB to RS232 serial adapter (SKU: ICUSB232D - sold separately).

The converter delivers dependable performance at extended operating temperatures (-40C to 85C), so it integrates nicely into a variety of workplace settings.

The IC232TTL is backed by a StarTech.com 2-year warranty and free lifetime technical support

## Certifications, Reports and Compatibility



## Applications

- Ideal in factories where TTL signals are used in microcontroller and embedded electronic equipment

- Connect with equipment that only communicates using TTL signals, from your source RS232 device
- Monitor and control industrial and automotive sensors and devices

## Features

- Provides simple RS232 to TTL serial connectivity
- Supports bidirectional communication at baud rates up to 115.2 Kbps
- Fast, hassle-free setup with no drivers or software required
- Small footprint, compact design
- Rugged design with an extended operating temperature range

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### Hardware

Warranty	2 Years
Ports	1
Interface	Serial
Port Style	Cable Adapters
Industry Standards	RS232
	TTL (Transistor-transistor logic)
	EIA/TIA
Chipset ID	Texas Instruments - CD4093

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### Performance

Maximum Cable Length	16.4 ft [5 m]
Serial Protocol	RS-232 / TTL
Max Baud Rate	115.2 Kbps
Data Bits	7, 8
Flow Control	Software flow control
Parity	None, Odd, Even, Mark, Space
Stop Bits	1, 1.5, 2

Full Duplex Support Yes

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**Connector(s)**

Connector Type(s) 1 - DB-9 (9 pin, D-Sub)  
1 - DB-9 (9 pin, D-Sub)

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**Special Notes / Requirements**

System and Cable Requirements Available RS232 DB-9 Serial Device / Port  
Available TTL DB-9 Serial Device / Port

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**Environmental**

Operating Temperature -40C to 85C (-40F to 185F)  
Storage Temperature -40C to 85C (-40F to 185F)  
Humidity 5~95% RH

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**Physical Characteristics**

Color Black  
Material Plastic  
Product Length 2.5 in [63.0 mm]  
Product Width 1.3 in [34.0 mm]  
Product Height 0.6 in [1.5 cm]  
Weight of Product 0.8 oz [22.0 g]

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**Packaging Information**

Package Quantity 1  
Package Length 6.7 in [17.1 cm]  
Package Width 5.6 in [14.2 cm]  
Package Height 1.3 in [32.0 mm]  
Shipping (Package) Weight 2.9 oz [81.0 g]

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**What's in the Box**

Included in Package	1 - RS232 Serial to TTL Converter
	1 - Instruction Manual

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***\*Product appearance and specifications are subject to change without notice.***

