RS-232 Interface Powered Family
RS-232 to TTL/CMOS
Interface Converter

ic232TTL

The ic232TTL converts RS-232 to TTL/CMOS compatible level. Two channels are used to convert from RS-232 to 0/+5 VDC signals, and two channels are used to convert from 0/+5 VDC signals to RS-232. Therefore, this converter supports TD, RD, RTS, and CTS. The RS-232 side is a DB9 female connector while the TTL/CMOS side is a DB9 male connector. This unit is powered from the RS-232 data and handshake lines whether the lines are high or low and may work at baud rates up to 115.2kbps. The handshaking lines (pins 7[RTS] and 4[DTR]) may be in either a high or low condition, but must be present to power the converter. It is important that TTL/CMOS logic, and only TTL/CMOS logic (0 to +5 VDC) be used for the TTL/CMOS side of the converter. The maximum sinking current for one TTL/CMOS output is 3.2 mA. The maximum source current for one TTL/CMOS is 1 mA. Signal levels are inverted by the converter.
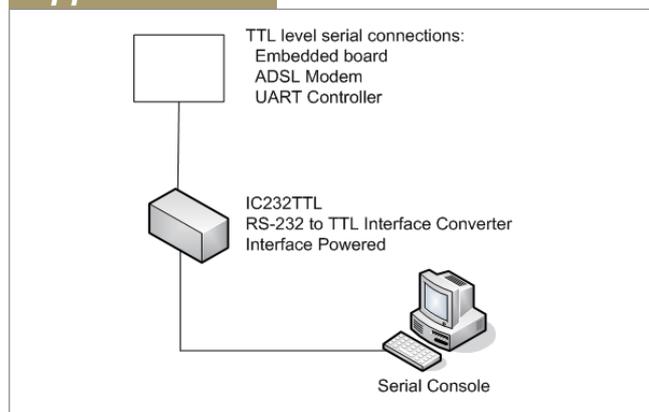
Features

- Electrically converters ASYNC RS-232 to TTL/CMOS level
- Interface powered, no external DC power required for this converter
- RS-232 DB9F connects directly to PC COM port
- TTL/CMOS level connects directly to embedded system's UART
- Baud rate up to 115.2k

Specifications

TTL / CMOS Input	RS232 Output
Low (< +0.8V)	+5V minimum, +9V typical
High (> +2V)	-5V minimum, -9V typical
TRS232 Input	**TTL / CMOS Output**
Low < +0.8V & > -15V	+3.5V minimum, +4.6V typical
High > +2V & <+15V	+0.4V minimum, +0.1V typical
Weight	20g
Dimension (D x W x H) mm	60 x 31 x15mm

Application

TTL level serial connections:
Embedded board
ADSL Modem
UART Controller

IC232TTL
RS-232 to TTL Interface Converter
Interface Powered

Serial Console

Ordering Information

RS-232 to TTL / CMOS
- ic232TTL   Asyn RS232 (DB9F) to TTL/CMOS (DB9M) [No Power required]