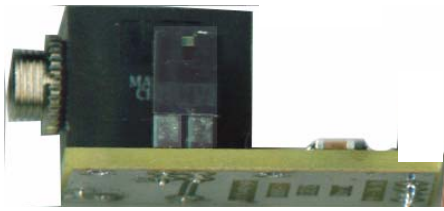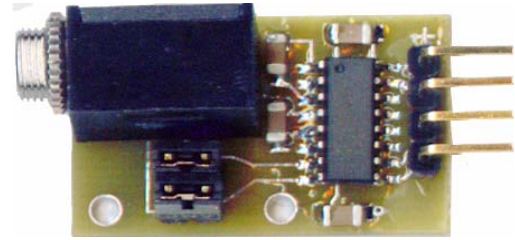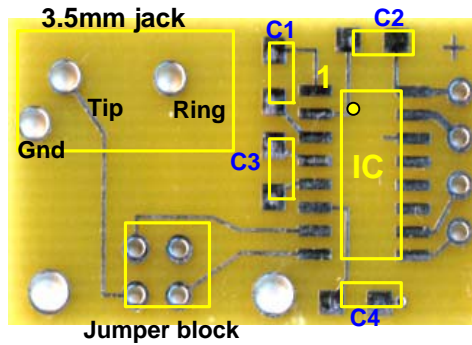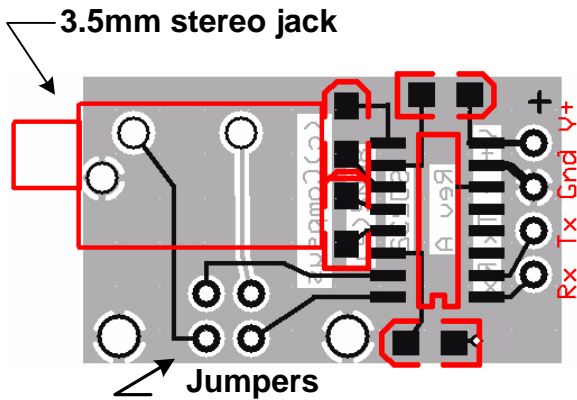# STR232 Rev 2

A very small TTL to RS232 adapter with a 3.5mm jack. Jumpers allow swapping the Tip and Ring connections. Available as a TTL 5v IC232 or TTL 3.3v IC3232
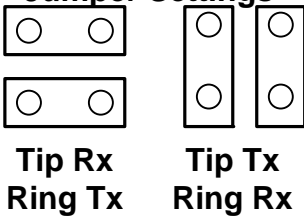
DO NOT REVERSE POLARITY!
The IC will be damaged

3.5mm stereo jack

Jumpers

3.5mm jack

Tip   Ring

Gnd

Jumper block

C1   C2   C3   C4   IC   1

TTL I/O

V+ 3.3v IC3232 (Max 5v)
5v IC232 (Max 6v)

Gnd

Tx ← Out

Rx → In

Jumper Settings

Tip Rx
Ring Tx

Tip Tx
Ring Rx

PARTS

3.3v version	5v version
C1-C4 -- 0.1uf	C1-C4 -- 1uf
IC --------- IC3232	IC --------- IC232

3.5mm jack and printed circuit board

Assembly Notes

Use quality solder approx .020" dia and a fine point soldering iron approx 20w.
Carefully mount the SOIC chip first observing correct orientation (Pin1 is the 'banded' or 'dimpled' end) .
Apply only tiny amounts of solder if needed. Next, install the four SMD non-polar capacitors. Finally mount the 3.5mm jack. Carefully insert the three tabs into the matching three holes on the pcb. Hold the jack by its case and align it parallel to the pcb edge and then solder the three tabs.

A232DB PINS

+5V INPUT C3

C5 **V+** 16

1 C1+ Vcc +5V
C1 3 C1- +5V TO +10V V+ 2 +10V
VOLTAGE DOUBLER

4 C2+ +10V TO -10V 6 -10V
C2 5 C2- VOLTAGE INVERTER V- C4

+5V
400k

11 T1IN T1OUT 14

+5V
400k

TTL/CMOS INPUTS 10 T2IN T2OUT 7 **RS232 Out**

TTL Tx

12 R1OUT R1IN 13
TTL/CMOS OUTPUTS 5k RS-232 INPUTS
9 R2OUT R2IN 8 **RS232 In**
5k

TTL Rx

GND 15 **Gnd**
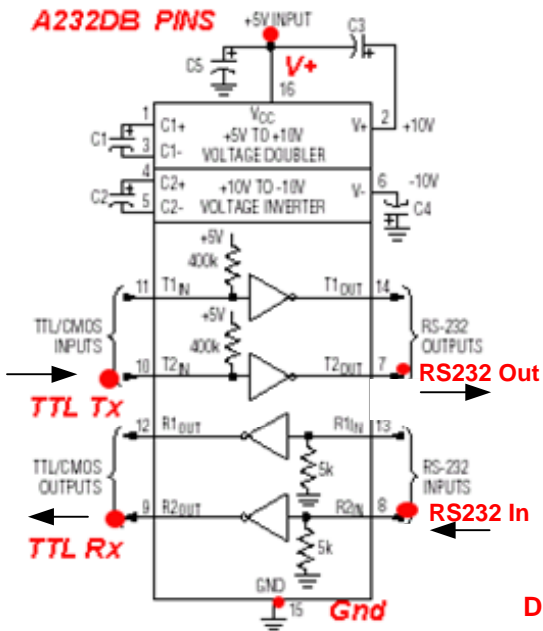
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