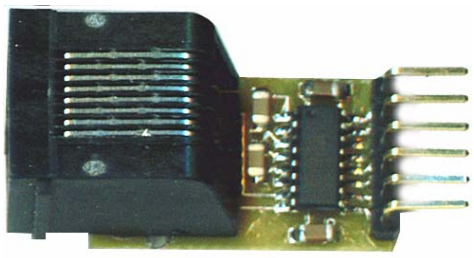
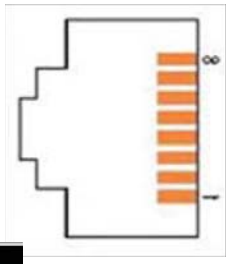
# RJ45RS232 Rev 1

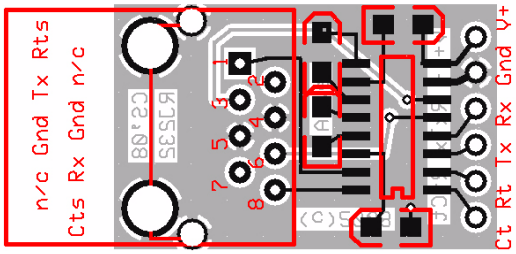
## RJ45 RS232 Serial adapter (Lantronix configuration)

## A very small TTL to RS232 RJ45 adapter. Available as a TTL 5v IC232 or TTL 3.3v IC3232 module






Pinouts on the RJ45 RS232

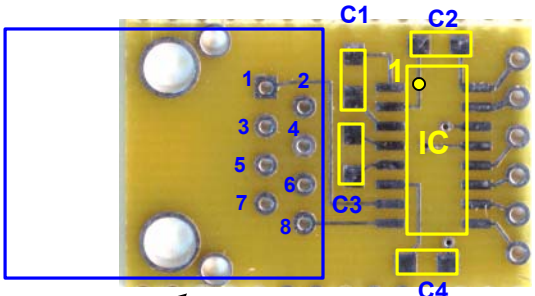



| Pin | Direction | Name | Function |
|---|---|---|---|
| 1 | Output from DR+ | RTS | Ready To Send |
| 2 | Output from DR+ | DTR | Data Terminal Ready |
| 3 | Output from DR+ | TXD | Transmitted Data |
| 4 | Ground | GND | Signal Ground |
| 5 | Ground | GND | Signal Ground |
| 6 | Input to DR+ | RXD | Received Data |
| 7 | Input to DR+ | DSR | Data Set Ready |
| 8 | Input to DR+ | CTS | Clear To Send |

N/C

N/C

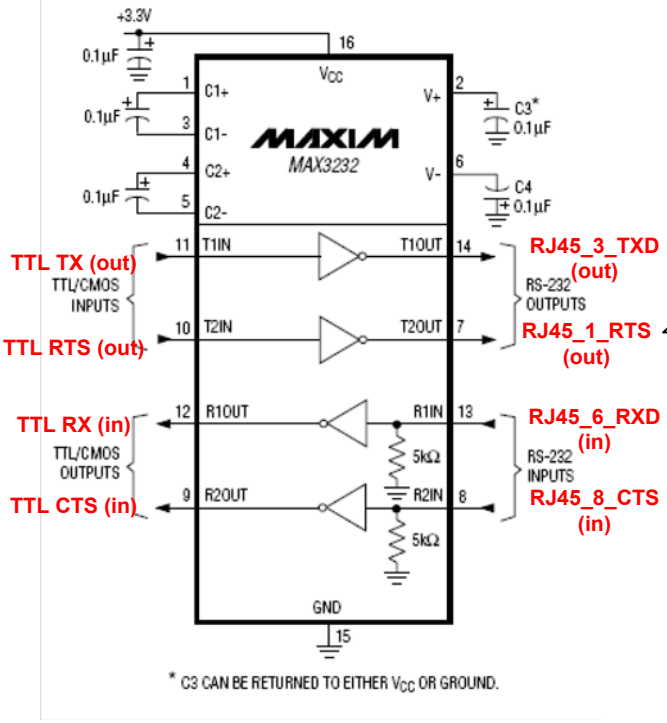
**DO NOT REVERSE POLARITY! The IC will be damaged**




V+ 5v IC232 (Max 6v)
3.3v IC3232 (Max 5v)
Gnd
Rx → In
Tx ← Out
Rts ← Out
Cts → In

RJ45 RS232 board

TTL I/O




* C3 CAN BE RETURNED TO EITHER $V_{CC}$ OR GROUND.

**Note: The RJ45 jack supplied can be shielded or unshielded. if it is shielded it will have two metal grounding tabs that will fit in the two small holes on the board**

### PARTS

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

RJ45 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 RJ45 jack. Carefully insert the pins into the matching holes on the pcb. Hold the jack firmly and seat the two plastic bosses. It will require some pressure before they snap in. Solder the pins and shield tabs (if it is a shielded jack).