

**RS232 MINI TESTER
(BREAKOUT BOX)
User's Guide**

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1 . Introduction

The RS232 MINI TESTER is helpful tool when you are setting up or troubleshooting a serial link. In brief:

- Designed for debugging serial links and hardware
- Applicable with 9 pin IBM PC serial port connectors
- Straight throw 9 pin female transparent connectors
- 7 - bicolor LEDs indicate the logic states
- Compact dimensions 60 x 32 mm (2.36 x 1.26 in)



Figure 1

2 . Check list

* *Package check list*

- RS232 MINI TESTER
- This manual

3. Description

Install RS232 MINI TESTER between host PC and a target device or feedback stopper. The RS232 MINI TESTER use bi-color LEDs that can display both colors. Green color indicates a positive voltage (the left picture of Figure 3); Red color indicates negative voltage (the right picture of Figure 3). The LEDs meaning shown on Figure 2.

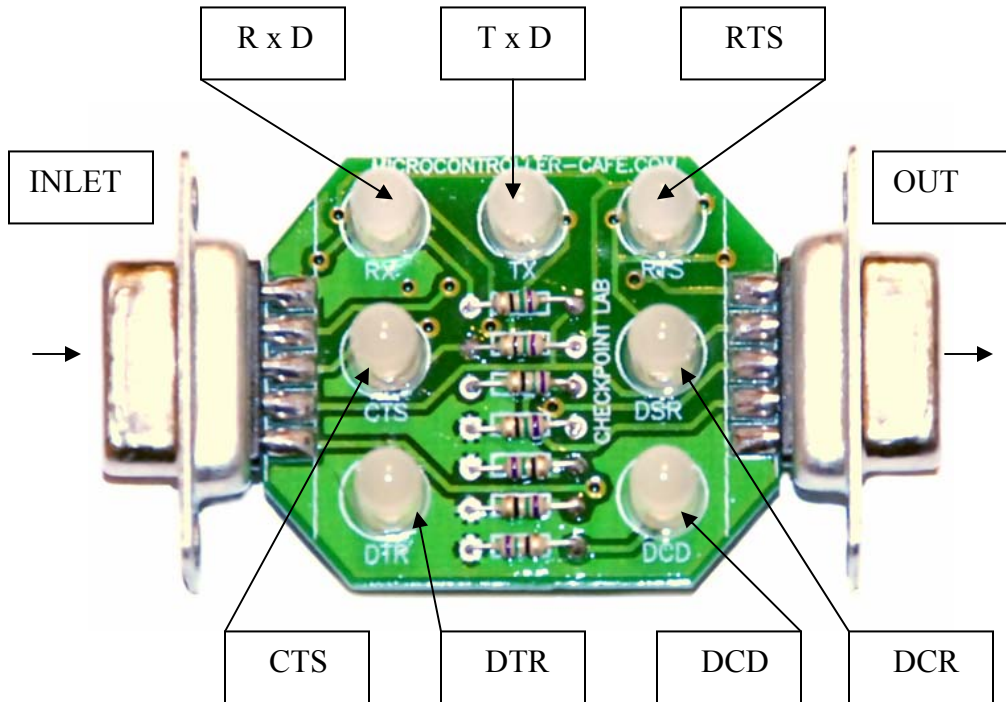


Figure 2

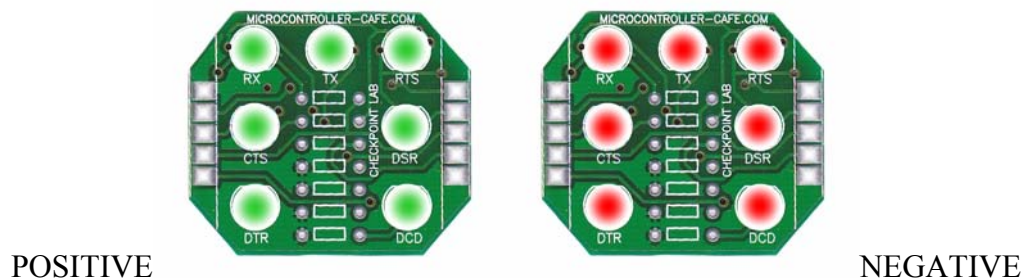


Figure 3

IBM PC 9-Pin signals serial port connector

TABLE 1.0

Pin	Description
1	Data carrier detect (DCD)
2	Received data (R x D)
3	Transmitted data (T x D)
4	Data terminal ready (DTR)
5	Signal ground (GND)
6	Data set ready (DSR)
7	Request to send (RTS)
8	Clear to send (CTS)
9	Ring indicator (RI) *

*NOTE: RI signal don't present

Maximum cable length between PC and target equipment via RS232 MINI TESTER equipment limited up to 12.7 m (~40ft). Logic 1 voltage level: -3 to - 20 v. Logic 0 voltage level : +3 to + 20 v.

RS232 ports have evolved to provide wide range of peripherals. Often, the full set of control signals is not required, only R x D, T x D and GND signals are needed.

RS232 MINI TESTER most applicable for speeds up to 19200 bps. Sometimes there is no substitute for watching the actual signals. For example, high speeds settings more than 19200 bps. A digital oscilloscope is ideal for viewing high speed data.