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Category	■ FAQ □ SOP	Related OS	Linux Debian7.8
Abstract	How to do COM port loopback test on TPC-1840WP under Linux		
Keyword	COM port loopback , TPC-1840,TPC-2140, Linux		
Related Product	TPC-1840,TPC-2140,SPC-1840,SPC-2140		

■ **Problem Description:**

Customer wants to know how to do loopback test on TPC-xx40WP under Linux OS.

■ **Brief Solution - Step by Step:**

1.

- Equipment: RS-232 , TPC-1840
- Connect TX and RX of COM1, make sure the COM1 setting is RS-232
- Connect the LAN port and open the terminal.
- Give the command
 - # apt-get update
 - # apt-get install minicom
- To check if Linux detects your serial port or not by the following command
 - # dmesg | grep ttyS

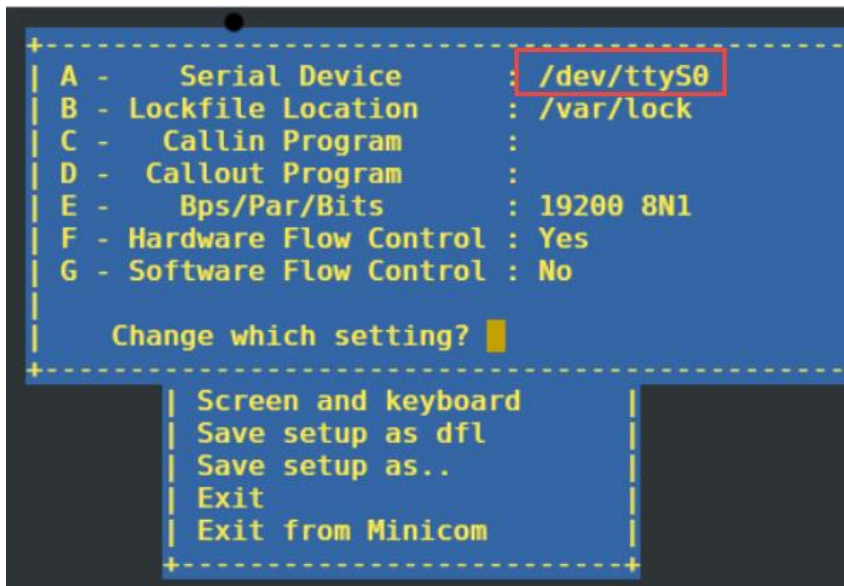
COM1 and COM2 are named as /dev/ttyS0 and /dev/ttyS1 respectively

The below output shows that your COM1 and COM2 ports are available and Linux recognizes them .

```
serial8250: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A
serial8250: ttyS1 at I/O 0x2f8 (irq = 3) is a 16550A
00:09: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A
00:0a: ttyS1 at I/O 0x2f8 (irq = 3) is a 16550A
```

2.

- To launch the minicom by giving the following command
 - #minicom -s
- You need to configure serial port. Use up and down arrows to select menus. Press down and select Serial port setup:
 - Press A to setup serial device name such as /dev/ttyS0
 - Press E to setup Bps/Par/Bits
 - Press [ESC] to exit
 - Save setup as DFL
 - Exit
 - Key any character and it will show on terminal



■ Reference