



LAVA COMPUTER MFG. INC.

2 VULCAN STREET, TORONTO, ONTARIO M9W 1L2
TEL: (416) 674-5942 FAX: (416) 674-8262
www.lavalink.com

TECHNICAL SUPPORT FAQ

TOPIC:	Linux Installation	PRODUCT(s):	LavaPort-650
		REVISION:	A00

Installation

On install during the bootup process, the Linux hardware discovery utility detects the LavaPort-650 and installs it as ttyS4. This setting will change depending on how many serial ports you have and how they are configured.

To verify proper installation you must first find out the port information (I/O range, IRQ) for each serial port. To retrieve that information type at the command line:

```
lspci -v
```

You will then see an entry for a "Serial Controller: Lava Computer MFG". Below it will be an IRQ number and an I/O port. Write down that information (for example, IRQ 12, e400).

First you must verify that the card was installed correctly. To do this at the command line type:

```
setserial -a /dev/ttyS4
```

Note: ttyS4 is the first default PCI serial port (This may change depending on how many serial ports you may have).

If the card was correctly configured by Linux you will see the following information:

```
/dev/tty4, Line 4, UART 16650V2, Port: 0xe400, IRQ: 12  
Baud_base: 460800, close_delay: 256, divisor: 0  
closing_wait: 15360  
Flags: spd_normal skip_test
```

Your port and IRQ should match the information collected earlier.

If you find that the information displayed does not match the above (port and IRQ should match your information), then carry on to the next step below. If the data is correct then the installation is complete.

To set the serial port to the correct settings, edit the file:

```
/etc/rc.d/rc.local
```

Add the following line at the end of the file:

```
setserial /dev/ttyS4 port 0xe400 irq 12 uart 16650v2 baud_base 460800 ^fourport
```

The example above uses the information gained from the lspci -v command. The details of your information may be different. Be sure to save the added changes. On reboot all of the ports should be operational.

[Test OS: Redhat 7.3 and 8.0]