



## net4801



## Quick Start Guide

Thank you for purchasing a Yawarra net4801.

Your package should contain:

- net4801 board

### *Optional Extras*

- Case
- Compact Flash card
- miniPCI card(s)
- Power supply
- 2.5" hard drive mounting kit
- DIN rail clips (Yawarra black and blue cases only)

Please read the following instructions to begin using your net4801.

### Things you will need

#### Tools

- Anti-static wrist strap
- 2mm hex key (net4801 box)
- Phillips head screwdriver (net4801 box)
- Compact Flash card reader (optional)
- Null modem cable (optional)



#### Materials

If you don't have them already, you'll need:

- Case
- Compact Flash Card OR 2.5" hard drive and a net4801 hard drive mounting kit
- miniPCI card (optional) e.g. wireless adapter, VPN accelerator
- Power supply
- Operating system image for the net4801

### Instructions

#### Safety Note

The net4801 board, like all electronic equipment, is sensitive to damage from static discharge. To avoid damage caused by static discharge, it is strongly recommended that you use an anti-static wrist strap when handling the board.

#### Step 1 Remove the case cover (net4801 box)

To install the Compact Flash (CF), hard drive and/or miniPCI cards into the net4801, you will need to remove the case cover.

1. Disconnect power and all cables.  
**Note:** The CF socket on this machine is not hot-swappable.
2. Using a 2mm hex key, remove the five ( **four** ) case screws from the bottom and sides ( **sides** ) of the net4801. [net4801 lite instructions in **bold**]
3. Remove the top part of the case by sliding it forwards.

#### Step 2 Configure and install a Compact Flash card (optional)

To use your net4801, you will need to have either a CF card with a suitable operating system installed in the CF socket on the net4801 board, or a 2.5" hard drive installed (Step 4).

If your CF card does not already have an operating system installed, you can either mount the CF card in another machine (e.g. via a flash card reader or a CF to IDE adapter) and copy a boot image onto it, or pxe boot the net4801. The net4801 supports many operating systems including BSD, Linux and a number of proprietary operating systems.

[Yawarra black case only] Using a Phillips head screwdriver, remove the CF card retaining screw at the rear right hand side of the board, adjacent to the CF socket.

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### **Installation**

Insert the CF card into the socket, label up. Ensure the CF card is fully engaged in the socket. The card should not extend past the edge of the board.

### **Removal**

Remove the CF card from the socket on the rear right hand side of the board. Grasp the CF card firmly between thumb and index finger and pull straight out, taking care not to lift or twist the card as this may damage the connector pins.

[Yawarra black case only] Replace the CF card retaining screw, and tighten.

### **Step 3 Install the miniPCI card (optional)**

Insert your miniPCI card into the miniPCI slot at an angle of about 45° to the board. Ensure that the card is firmly seated in the slot and then lay it onto the board, pressing down until the locking tabs on either side of the card click into place.

If you are installing a wireless card, please note that like all electronic equipment, they are sensitive to damage from static discharge, especially the RF switch and the power amplifier. To avoid damage caused by static discharge, we strongly recommend that you do the following when installing a wireless radio card.

- Touch your hands and the bag containing the wireless card to a ground point on the board (for example one of the holes in the corner of the board). This will equalize the potential of the wireless card and board.
- Insert the radio card into the miniPCI slot on the board.
- Install the bulkhead end of the pigtail into the case. This will ground the pigtail to the case.
- Touch the u.fl end of the pigtail to a ground point on the board to discharge any static, then attach the u.fl end to the connector on the wireless card.

### **Step 4 Install a 2.5" hard drive (optional)**

If you want to install a hard drive in your net4801, you will need to use a net4801 hard drive mounting kit. Please note that you will need to remove the hard drive to access the miniPCI slot on the net4801 board.

1. Remove the board screws and replace them with the standoffs from the hard drive kit.
2. Attach a 2.5" hard drive to the bracket with the hard drive mounting screws.
3. Attach the bracket to the standoffs with the board screws.
4. Plug in the hard drive cable between the board and the hard drive.

### **Step 5 Replace the case cover (net4801 box)**

Before you can begin using your net4801, you will need to replace the case cover.

1. Reposition the case cover over the base.
2. Replace the case screws and tighten.

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### **EMC Compliance**

Please note that in order to comply with ACMA emissions regulations, the net4801 board must be housed in a suitable metal enclosure.

### **Step 6 Connect to the serial console (optional)**

If you want to configure your operating system via the console, you will need to connect to the serial port via a null modem cable.

Your terminal emulator should be set to 19200 baud, 8 bits, no parity, 1 stop bit, no flow control.

### **Step 7 Apply power**

Plug the power supply into the DC jack on the net4801. The net4801 board runs on 6-20V DC, and uses up to 15W at 12V (including a hard drive). You'll need a power supply with a 2.1mm internal, 5.5mm external, centre positive plug.

The net4801 will go through its boot up cycle, which you can watch if you are connected to the serial console.

Your net4801 is ready to use!

### **More information**

For more detailed instructions on using your net4801, please visit our website at [www.yawarra.com.au](http://www.yawarra.com.au) and download the manufacturer's user guide.

### **Warning**

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

### **Contact us**

Please feel free to contact us if you have any queries regarding your net4801.

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