



WRAP



Quick Start Guide

Thank you for purchasing a Yawarra WRAP.

Your package should contain:

- WRAP board

Optional Extras

- Case
- Compact Flash card
- miniPCI card(s)
- Power supply

Please read the following instructions to begin using your WRAP.

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Things you will need

Tools

- Anti-static wrist strap
- 2mm hex key (WRAP box)
- Phillips head screwdriver (WRAP box)
- Nut driver or small adjustable spanner (WRAP 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
- miniPCI cards (optional) e.g. wireless adapter, VPN accelerator
- Power supply
- Operating system image for the WRAP

Instructions

Safety Note

The WRAP 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 (WRAP box)

To install the Compact Flash (CF) and/or miniPCI cards into the WRAP, you will need to remove the board from the case.

1. Disconnect power and all cables.
Note: The CF socket on this machine is not hot-swappable.
2. Remove the screws from serial port on the rear of case
3. Remove the four outer case screws.
4. Remove the top part of the case. The top of the case is symmetrical, so it doesn't matter which way round it goes.
5. Using a Phillips head screwdriver, remove the four screws from the corners of the board.
6. Carefully lift the board out by placing your fingers under the board at the front on both sides.

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Step 2 Configure and install a Compact Flash card

To use your WRAP, you will need to have a CF card with a suitable operating system installed in the CF socket on the WRAP board.

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 WRAP. The WRAP supports many operating systems including BSD, Linux and a number of proprietary operating systems.

Installation

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

Removal

To remove the CF card from the WRAP 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.

Step 3 Install the miniPCI card(s) (optional)

Insert your miniPCI card into the miniPCI slot at an angle of about 45° to the board. If you are installing a radio card, attach the u.fl end of the pigtailed connectors to the connectors on the wireless card. 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.

Step 4 Reinstall the board into the case (WRAP box)

Before you can begin using your WRAP, you will need to reinstall the board into the case.

1. Place the board back into the case feeding the ethernet and serial ports in first, then lowering the front of the board. Press down firmly on the corners of the board.
2. Using a Phillips head screwdriver, insert and tighten the four board screws.
3. Insert the serial port screws and tighten using a small spanner.
4. Replace the case cover and align with screw holes.
5. Insert the case screws, to finger tight, plus a quarter turn only.

EMC Compliance

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

Step 5 Connect to the serial console (optional)

If you want to configure your operating system via the console, you will need to connect to

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the serial port via a null modem cable.

Your terminal emulator should be set to 38400 baud, 8 bits, no parity, 1 stop bit, no flow control.

Step 6 Apply power

Plug the power supply into the DC jack on the WRAP. The WRAP boards run on 7-18V DC, and use about 5W at 12V (excluding miniPCI cards). You'll need a power supply with a 2.1mm internal, 5.5mm external, centre positive plug.

The WRAP will go through its boot up cycle, which you can watch if you are connected to the serial console. The behaviour of the three LEDs on the WRAP boards is as follows:

- during memory check all LEDs on
- during O/S start up left-hand LED on
- after boot up operating system dependent

Your WRAP is ready to use!

More information

For more detailed instructions on using your WRAP, please visit our website at www.yawarra.com.au and download the manufacturer's user guide.

Contact us

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

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