Rack mount ALIX 1

Quick Start Guide

Thank you for purchasing a rack mount ALIX 1 server.

Your package should contain:

- ❑ 1RU server case
- ❑ Cover plate and hex screws for empty board slots

Optional Extras

- ❑ 1 x mounting kit to suit the ALIX 1 board
  - ➢ punched cover plate, 2 x hex screws, hex key, board mounting plate, 8 x M3 x 5 screws
- ❑ 1 x ALIX 1 board
- ❑ 1 x ALIX 1 hard drive bracket
- ❑ 1 x mounting kit to suit a PCI card
  - ➢ punched cover plate, 2 x hex screws, hex key, PCI mounting plate, 6 – 8 x M3 x 5 screws, 3 x M3 x 20 standoffs

Please read the following instructions to begin using your rack mount ALIX 1.

Things you will need

Tools

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

Materials

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

- 1 x ALIX 1 board
- Compact Flash Card
- Hard drive bracket (optional)
- miniPCI card (optional) e.g. wireless adapter, VPN accelerator
- Power supply
- Operating system image

Instructions

Safety Note

The ALIX 1 board, like all electronic equipment, is sensitive to damage from static discharge. To avoid damage caused by static discharge, we strongly recommend that you use an anti-static wrist strap when handling the board.

Step 1 Install the board into the server case (optional)

If your board is not installed in the rack mount ALIX 1, you may need to do the following:

1. Remove the five (5) screws from the top of the case and remove the top of the case.
2. Attach the board to the mounting plate using the M3 x 5 screws.
3. Attach the mounting plate to the four standoffs in the base of the case, using 4 M3 x 5 screws.
4. Attach the cover plate to the case using the black M3 x6 hex screws.
5. Attach the cover plate to the front of the board, using the serial port and VGA screws, making sure that it is the right way around (brushed surface goes outwards).
6. Connect LEDs to the header on the rear right hand side of the board, adjacent to the Compact Flash slot.
7. Connect power plug to header on front left corner of the board.
8. Replace the top of the case and tighten the screws.

Step 2   Configure and install a Compact Flash card

To use your rack mount ALIX 1, you will need to have a CF card with a suitable operating system installed in the CF socket on the 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 board. The ALIX 1 boards support many operating systems including BSD, Linux and a number of proprietary operating systems.

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

To remove the CF card from 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.

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.

Step 4   Install the PCI card (optional)

1. Using your PCI card as a guide, determine which standoffs on the PCI mounting plate line up with the mounting holes on the PCI card. Ensure the standoffs are pointing downwards.
2. Place 20mm nylon standoffs on the matching standoffs on the PCI mounting plate.
3. Attach the PCI card to the PCI mounting plate, using M3 x 5 screws. Ensure that the component side of the PCI card faces downwards.
4. Attach the PCI card and mounting plate assembly to the base of the rack mount case, using 4 M3 x 5 screws. Leave the screws loose for now.
5. Attach the cover plate to the case using black M3 x 6 hex screws, making sure that it is the right way around (brushed surface goes outwards).
6. Slide the PCI card and mounting plate assembly forward, so that the ports on the PCI card sit flush with the cover plate.
7. Tighten the 4 M3 x 5 screws that hold the assembly to the base of the rack mount case.
8. Connect the PCI card to the ALIX 1 using the flexible PCI riser, with the ribbon cable bent in an S shape, extending upwards from the connector at the ALIX 1 board and downwards from the connector at the PCI card.

Step 5 Install a 2.5" IDE hard drive (optional)

If you want to install a hard drive in your ALIX 1, you will need to use an ALXI 1 hard drive mounting bracket. Please note that you will need to remove the hard drive to access the miniPCI slot on the ALIX 1 board.

1. Attach a 2.5" IDE hard drive to the hard drive bracket, using 2 M3 x 5 screws, and the two holes at the end of the hard drive furthest from the 44-pin connector.
2. Press the hard drive bracket onto the 44-pin connector and USB header on the board.

You may need to adjust the jumpers on the corner of the board adjacent to the Compact Flash slot, to determine which devices act as master and slave.

Step 6 Connect to the ALIX directly (optional)

If you want to configure your operating system directly, you will need to connect a VGA monitor and a USB or PS2 keyboard and mouse to the ALIX 1.

Step 7 Apply power

Connect the IEC cable to the socket at the rear of case and turn switch to on.

The board will go through its boot up cycle, which you can watch if you are connected to the VGA terminal.

Your rack mount ALIX 1 is ready to use!

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 rack mount ALIX 1.

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