

Disk Server

NAS-1000

Quick Installation Guide

Before Start Up

This user's guide is intended to guide you install a Hard Drive to your NAS-1000 that comes with no Hard Drive **ONLY**.

After the installation, please keep this guide for future update or re-installation. In the following section "Disk Server" will mean the Network Attached Storage, NAS-1000

Note

Hard Disk installation is **NOT** recommended to be an end-user operation. The dealer or supplier should install the Hard Disk before the Disk Server is offered for sale.

Requirements

The followings can be found in the packages:

- | | |
|-----------------|---|
| Cables | : The required power cable, keyboard cable, VGA, and IDE cables are supplied. |
| Software | : Required software is provided on CD-ROM. |

The following is required for the installation:

- | | |
|---------------------|--|
| Hard Disk | : With standard IDE or EIDE interface. |
| Free Devices | : One free VGA Monitor, one PS/2 keyboard. |
| CD-ROM Drive | : One Standard IDE CD-ROM drive. |

VGA, Keyboard, and CD-ROM drive is used for Disk Server's first time installation.

Preparation

1. Deleting any Existing Partitions

- If you do not use a new hard disk, the MBR (Master Boot Record) and all existing partitions must be deleted.

- A utility program ZAP.COM could be used to quickly delete the MBR and all partitions. Contact your sales representative to get this program.

2. IDE Master/Slave Settings

Before making any connections, ensure that the **Hard Disk** is set to be an IDE **Master**, and the **CD-ROM drive** is set to be an IDE **Slave**.

•• Installation

Step 1. Power Off

Power off, remove the 2 rear screws, and slide the outer case off.

Step 2. Wire Connect

Connect the supplied cables as shown in the following diagram.

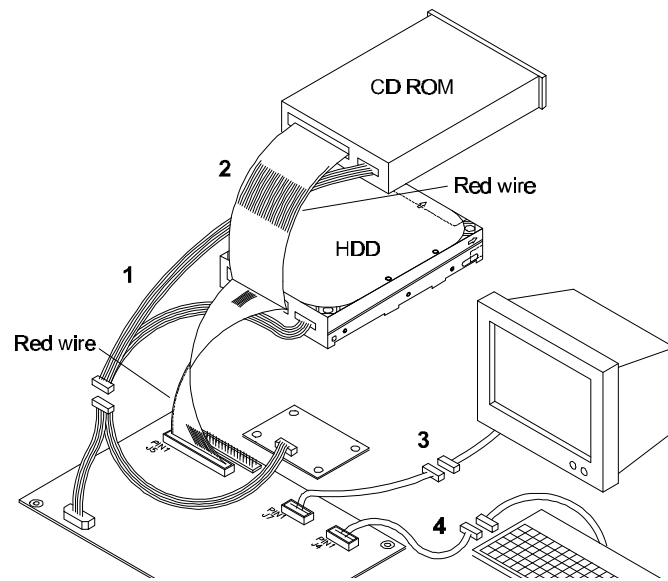


Figure 1: Cable connections

1. Connect power cable (1) to provide power to the Hard Disk and CD-ROM drive.

2. Connect IDE Bus cable (2) from the IDE Channel 0 interface (**J5**) to the hard disk and CD-ROM drive. Ensure pin 1 (indicated on the cable by a red stripe) is connected to pin 1.
3. Connect VGA cable (3) from J7 to a standard VGA monitor. The supplied cable can only be inserted in J7 in the correct position.
4. Connect KB cable (4) from J4 to a standard keyboard (PS/2 connector). The supplied cable can only be inserted in J4 in the correct position.

Step 3. Power up

Power up by connecting the power cord, then pressing the rear-mounted power switch.

Step 4. Insert the CD-ROM and Reboot

Insert the supplied CD-ROM into the CD-ROM drive, then use CTRL-ALT-DEL to reboot. The Disk Server will boot from the CD-ROM.

(If it doesn't, reboot and press F2 to enter the BIOS. Ensure that "Boot from CD-ROM drive" is **Enabled**.)

Step 5. Prepare Disk, Install Software

The installation program will start automatically. Follow the prompts until you get to the screen giving you a choice of **Automatic** or **Manual** installation.

Generally, you should use **Automatic**.

The Manual option is provided only for situations where the Automatic procedure does not work, such as with older hard disks.

◆ Automatic Installation

The following operations will be carried out without user intervention:

- Partition disk
- Format disk

- Installation of Disk Server Software

When completed, check for error messages. If everything is OK, power the Disk Server OFF by unplugging the power cord. Disconnect the CD-ROM, keyboard and monitor.

You can then mount the Hard Disk, as described in the next section.

** Manual Installation

1. Follow the prompts until you get to the *Create Partitions* screen.
2. Delete any existing partitions on the Hard Disk.
3. Use the *Add* command to create 3 partitions on the Disk Server's disk, as follows:

	Mount Point	Size (Meg)	Type
1	/	150	Linux native
2	None	32	Linux swap
3	/share	Rest of disk	Linux native

Note: Set "Growable" ON [*] to indicate "Rest of Disk".

4. Select OK to finish, and then answer "Yes" to the "Save changes" prompt
5. Next, you MUST format ALL partitions. Selecting the "Check for bad blocks" option is strongly recommended, even though this will take much longer. The format process may take several minutes.
6. The software installation program will then run automatically. If there are any problems, a message will be shown on screen.
7. When completed, check for error messages. If everything is OK, power the Disk Server OFF by unplugging the power cord. Disconnect the CD-ROM, keyboard and monitor.

You can then mount the Hard Disk, as described in the next section.

Step 6. Mount the Hard Disk

1. Mount the Hard Disk in the Disk Server. The Hard Disk can be inserted by slipping it sideways, as shown below.
2. Ensure that the four (4) supplied rubber washers are used to provide shock-mounting of the Hard Disk, as illustrated below.

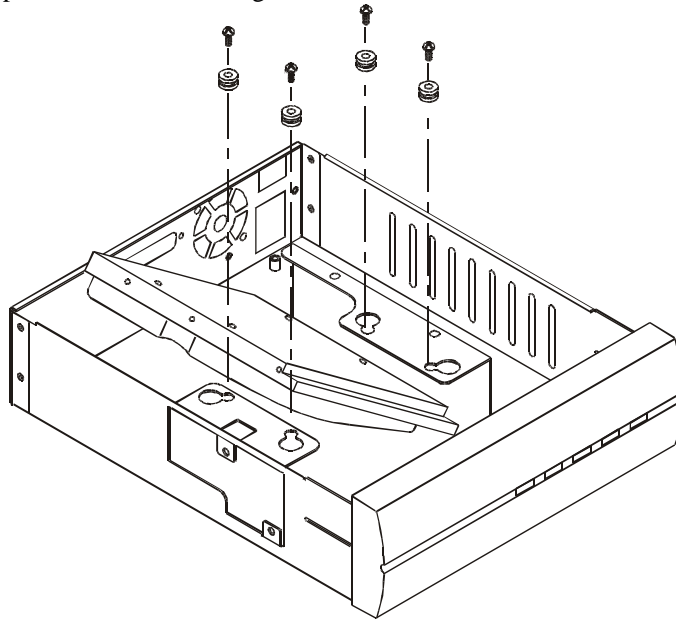


Figure 2: Shock mounts for Hard Disk

3. Ensure the IDE cable and power cable are correctly connected to the hard disk.
4. Install the outer case.

Step 7. Boot the Disk Server

Power up the Disk Server and check that it boots correctly.

- The *Power*, *Error*, and *Disk Full* LEDs will be ON during the self-test. This will take about 5 seconds.
- The *Power* LED will blink during the boot process.
- After booting, the *Power* LED should be ON, the *Error*, *Disk* and *Disk full* LED should be OFF.
- Boot Errors will be indicated by:

- *Error* LED stays ON
- Disk Server beeps.

If this occurs, check all connections.

Step 8. Shutdown

If all is well, you can shutdown the Disk Server by pressing the rear-mounted power switch **ONCE**.

Wait for the shutdown to be completed before disconnecting the power cord.

The beginning of the shutdown is indicated by a single beep. The *Power* and *Disk* LED will blink until the shutdown is complete, then it will turn OFF.

Warning: Disconnect/Remove the power connection before or during its auto power off may cause the system fail.

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Part No.: EMQ-NAS1K