

Enteroc N58 Desktop NAS System



User's Manual

Revision 1.0

Table of Contents

Preface	3
Before You Begin.....	4
Safety Guidelines.....	4
Packaging, Shipment and Delivery	4
Chapter 1 Introduction	5
1.1 Key Features.....	5
1.2 Technical Specifications	6
Chapter 2 Installation.....	7
2.1 Packaging, Shipment and Delivery	7
2.2 Unpacking the NAS System	7
2.3 Identifying Parts of the NAS System	8
2.3.1 Front View	8
2.3.2 HDD Status LEDs	9
2.3.3 Environmental Status LEDs	9
2.3.4 Front Panel.....	10
2.3.5 Rear View.....	11
2.3.6 LCD Menu Diagram	12
2.4 Getting Started with the NAS System.....	13
2.4.1 NAS Hardware Setup	13
2.4.2 Installing Hard Drives.....	14
2.4.2.1 Installing 3.5" Disk in a Disk Tray	14
2.4.2.2 Installing 2.5" Disk in a Disk Tray	15

Preface

About this manual

This manual provides information regarding the quick installation and hardware features of the **NAS system**. Information contained in the manual has been reviewed for accuracy, but not for product warranty because of the various environment/OS/settings. Information and specifications will be changed without further notice.

This manual uses section numbering for every topics being discussed for easy and convenient way of finding information in accordance with the user's needs. The following icons are being used for some details and information to be considered in going through with this manual:



NOTES:

These are notes that contain useful information and tips that the user must give attention to in going through with the subsystem operation.



IMPORTANT!

These are the important information that the user must remember.



WARNING!

These are the warnings that the user must follow to avoid unnecessary errors and bodily injury during hardware and software operation of the subsystem.



CAUTION:

These are the cautions that user must be aware to prevent damage to the equipment and its components.

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Changes

The material in this document is for information only and is subject to change without notice.

Before You Begin

Before going through with this manual, you should read and focus to the following safety guidelines. Notes about the subsystem product packaging and delivery are also included.

Safety Guidelines

To provide reasonable protection against any harm on the part of the user and to obtain maximum performance, user is advised to be aware of the following safety guidelines particularly in handling hardware components:

Upon receiving of the product:

- ❖ Place the product in its proper location.
- ❖ To avoid unnecessary dropping out, make sure that somebody is around for immediate assistance.
- ❖ It should be handled with care to avoid dropping that may cause damage to the product. Always use the correct lifting procedures.

Upon installing of the product:

- ❖ Ambient temperature is very important for the installation site. It must not exceed 30°C. Due to seasonal climate changes; regulate the installation site temperature making it not to exceed the allowed ambient temperature.
- ❖ Before plugging-in any power cords, cables and connectors, make sure that the power switches are turned off. Disconnect first any power connection if the power supply module is being removed from the enclosure.
- ❖ Outlets must be accessible to the equipment.
- ❖ All external connections should be made using shielded cables and as much as possible should not be performed by bare hand. Using anti-static hand gloves is recommended.
- ❖ In installing components, secure all the mounting screws and locks. Make sure that all screws are fully tightened. Follow correctly all the listed procedures in this manual for reliable performance.

Packaging, Shipment and Delivery

- ❖ Before removing the subsystem from the shipping carton, you should visually inspect the physical condition of the shipping carton.
- ❖ Unpack the subsystem and verify that the contents of the shipping carton are all there and in good condition.
- ❖ Exterior damage to the shipping carton may indicate that the contents of the carton are damaged.
- ❖ If any damage is found, do not remove the components; contact the dealer where you purchased the subsystem for further instructions.

Chapter 1 Introduction



The NAS System

1.1 Key Features

- Supports up to five (5) hot-swappable 6Gb/s SATA hard drives
- Supports RAID levels RAID 0, 1, 5, 6, 10 and Linear(JBOD)
- Support Smart-functional LCD panel
- Support drive hot spare and automatic hot rebuild
- Centralization of Data and Storage Management
- Real-time drive activity and status indicators
- Environmental monitoring unit
- Allow online capacity expansion within the enclosure
- Locally audible event notification alarm

1.2 Technical Specifications

Hardware Platform
Intel® Xeon® processor D-1521 CPU
Cache memory : 8GB DDR4 SDRAM up to 64GB
Two USB3.0 ports
Two 10GbE LAN ports
Support RAID level: RAID 0, 1, 5, 6, 10 and Linear(JBOD)
Up to Five(5) 2.5"/3.5" hot-swappable 6Gb/s SATA hard drives
Real-time drive activity and status indicators
Environmental monitoring unit
300W power supply with PFC (80 plus)
Support drive hot spare and automatic hot rebuild
Allow online capacity expansion within the enclosure
Locally audible event notification alarm
Power requirements
AC 100V ~ 240V Full range
4.5A~2.5A, 50~60Hz
Environmental
Relative humidity : 10%~85% Non-condensing
Operating temp : 10°C~40°C(50°F~104°F)
Physical Dimension
261(H) x 180(W) x 390(D)mm

Specifications are subject to change without notice.

Chapter 2 Installation

2.1 Packaging, Shipment and Delivery

- ❖ Before removing the system from the shipping carton, you should visually inspect the physical condition of the shipping carton.
- ❖ Unpack the system and verify that the contents of the shipping carton are all there and in good condition.
- ❖ Exterior damage to the shipping carton may indicate that the contents of the carton are damaged.
- ❖ If any damage is found, do not remove the components; contact the dealer where you purchased the system for further instructions.

2.2 Unpacking the NAS System

The package contains the following items:

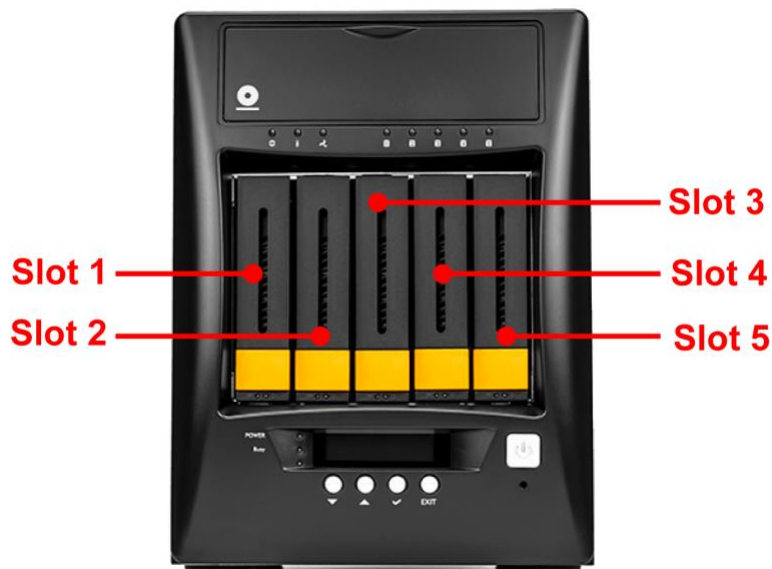
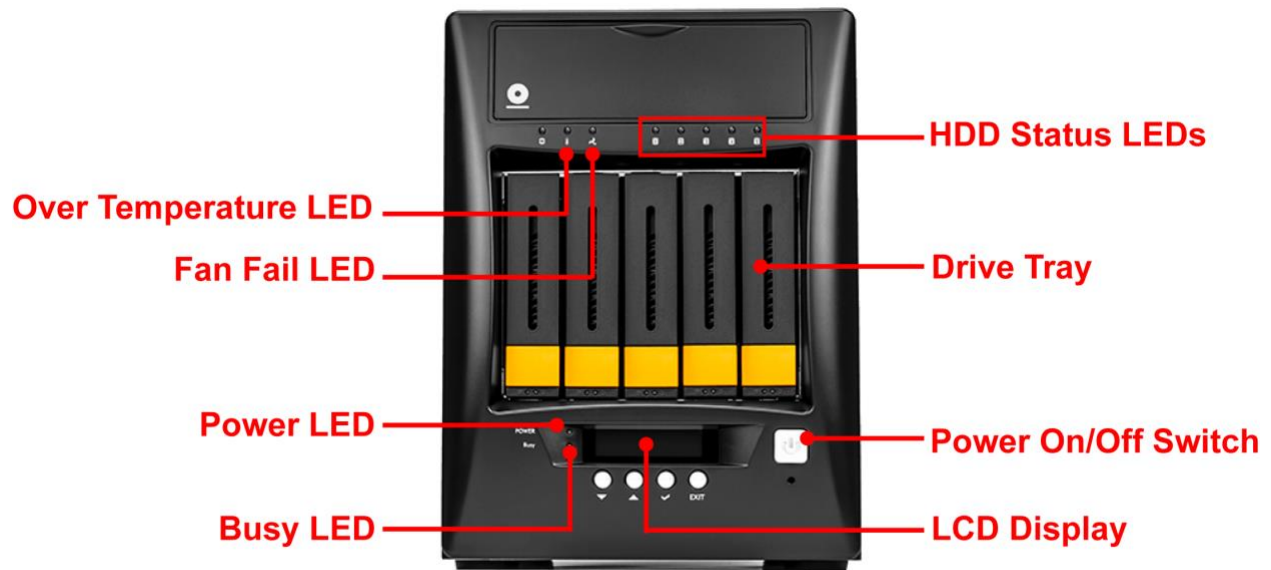
	NAS System Unit
	One (1) power cord
	Two (2) Ethernet LAN cables
	User Manual

If any of these items are missing or damaged, please contact your dealer or sales representative for assistance.

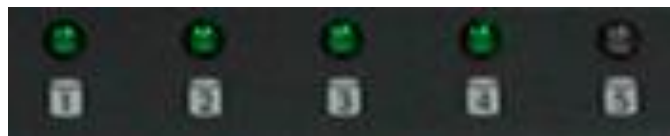
2.3 Identifying Parts of the NAS System

The illustrations below identify the various parts of the NAS system.

2.3.1 Front View

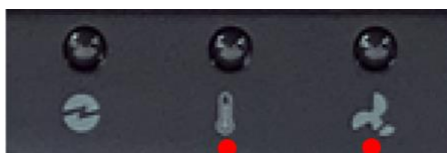


2.3.2 HDD Status LEDs





Green LED indicates power is on and the hard disk drive status is good for this slot.
Blinking Orange and Green LED indicates the hard disk drive is in rebuilding state.

2.3.3 Environmental Status LEDs

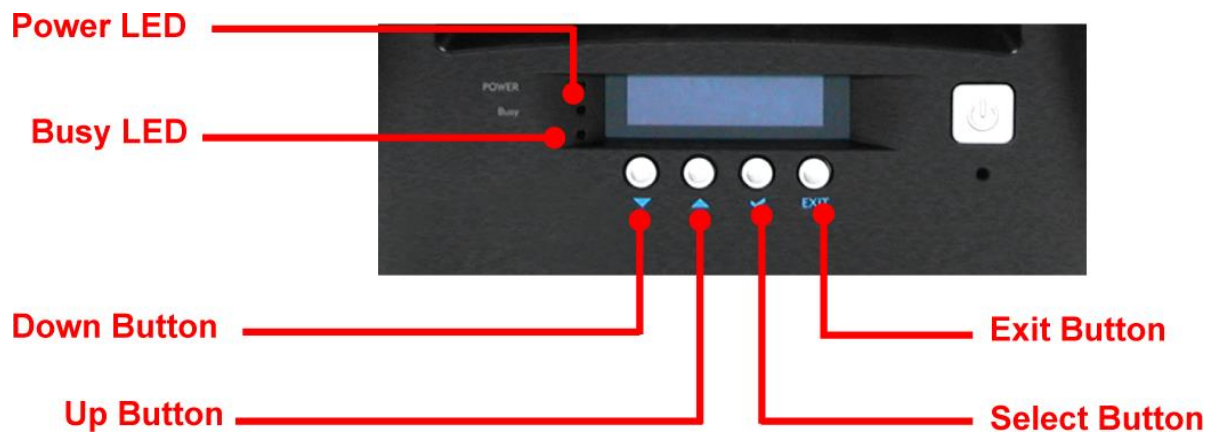




Over Temperature LED

Fan Fail LED

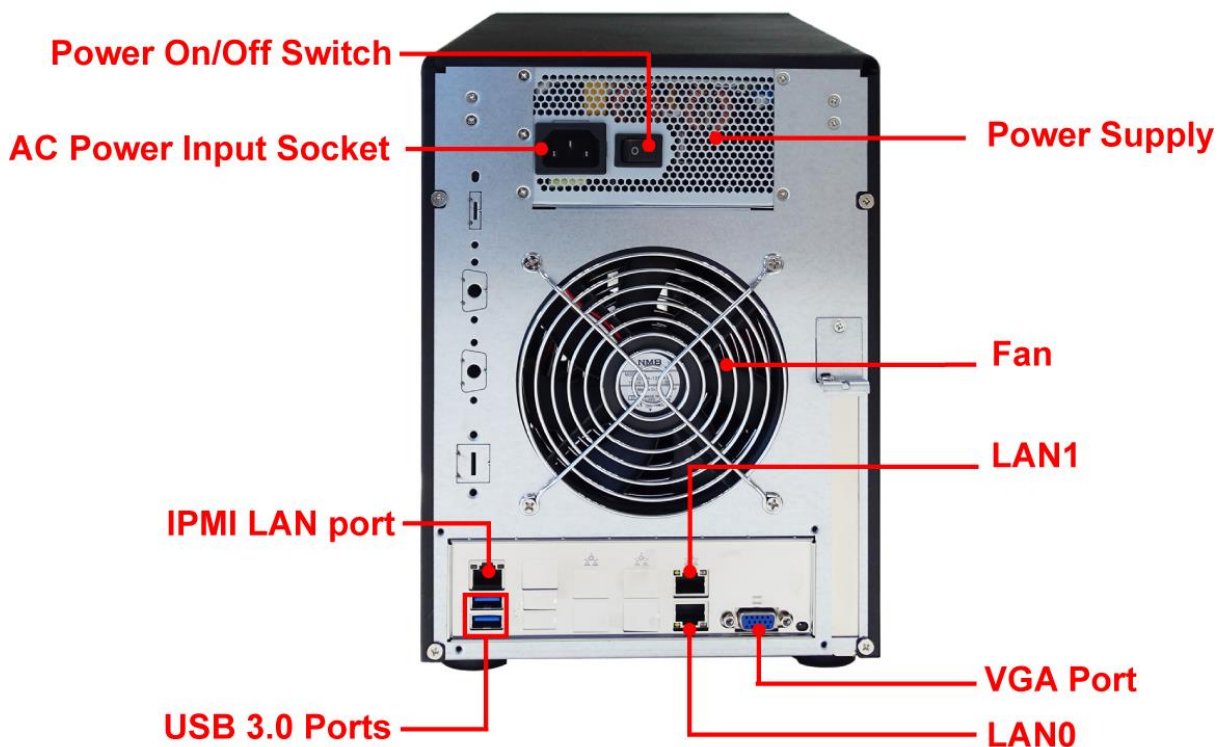
Parts	Function
Fan Fail LED 	When fan fails, this LED will turn red and an alarm will sound.
Over Temperature LED 	If temperature irregularities in the system occurs (HDD slot temperature over 55°C), this LED will turn RED and alarm will sound.

2.3.4 Front Panel



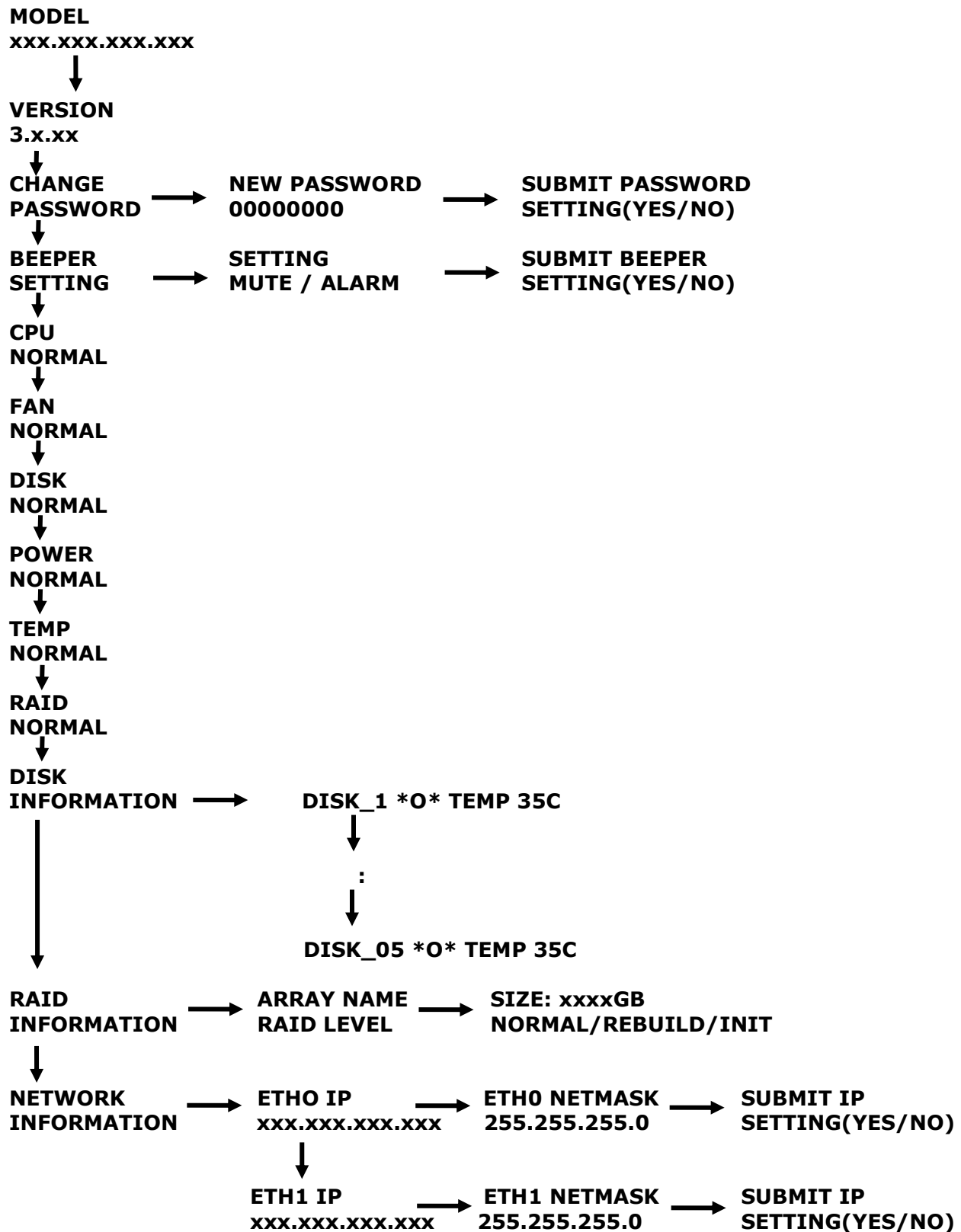
PARTS	FUNCTION
Power LED	Green LED indicates power is on.
Busy LED	Orange blinking indicates system is busy or data is being accessed.
Up and Down Arrow buttons 	Use the Up or Down arrow keys to go through the information on the LCD screen. This is also used to move between each menu when you configure the subsystem.
Select button 	This is used to enter the option you have selected.
Exit button EXIT	Press this button to return to the previous menu.

2.3.5 Rear View



1. **Power On/Off Switch** – Use this switch to power on the NAS System.
2. **AC Power Input Socket** - Use this to connect the power cord connected from power source.
3. **USB 3.0 Port** - The USB 3.0 port supports the USB 3.0 specification and is compatible to the USB 2.0/1.1 specification.
4. **VGA Port** – Use this to connect a VGA monitor.
5. **Power Supply** – The NAS System has one power supply.
6. **LAN0 and LAN1 10GbE LAN ports** – The NAS System has two 10Gb data ports.

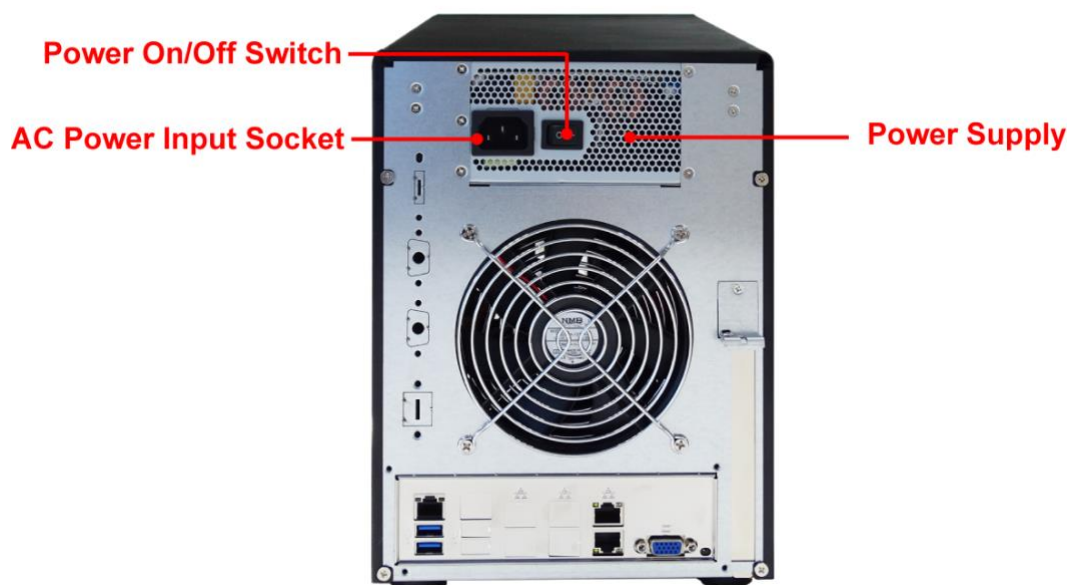
2.3.6 LCD Menu Diagram



2.4 Getting Started with the NAS System

2.4.1 NAS Hardware Setup

1. Attach network cable to LAN0 Ethernet port. Connect the other end of network cable to your network hub or switch. You may also connect the other Ethernet ports if needed.
2. Plug in the power cord into the AC Power Input Socket located at the rear of the subsystem.



3. To turn on the NAS, press the Power On/Off Switch of power supply at the rear. Then turn on the main switch button in the front panel.
4. The Power LED on the front panel will turn green.

2.4.2 Installing Hard Drives

2.4.2.1 Installing 3.5" Disk in a Disk Tray

This section describes the location of the hard drives in the NAS system and gives instructions on installing a hard drive. The system supports hot-swapping allowing you to install or replace a hard drive while the system is running.

- a. To pull out a disk tray and Pull the handle outwards to remove the disk tray from the enclosure.



- b. Place the hard drive in the disk tray.



- c. Make sure the holes of the disk tray align with the holes of the hard drive. Install the mounting screws on the bottom part to secure the drive in the disk tray.



- d. Slide the tray into a slot and Press the handle until you hear the latch click into place. The HDD status LED will turn green if subsystem is on.

2.4.2.2 Installing 2.5" Disk in a Disk Tray

- a. To pull out a disk tray and Pull the handle outwards to remove the disk tray from the enclosure.



- b. Place the 2.5" hard drive in the disk tray.



- c. Install the mounting screws on the bottom part to secure the drive in the disk tray.



Tray Hole W

- d. Slide the tray into a slot. Close the lever handle until you hear the latch click into place.

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This Limited Warranty is provided by Rocstorage, Inc. (hereinafter: Rocstor) for all lines of products.

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Buyer's Obligation under the Warranty

The person requesting coverage under this warranty shall prove that he or she is the original purchaser and declares that the product has not been sold, leased, bartered or otherwise changed possession. **The purchaser shall frequently backup the Enteroc Storage hard drive and backup the data immediately prior to returning the drive for warranty service.**

The buyer must notify Rocstor and show proof of notification, through any reasonable means of communication. See Full Street address email address and toll free phone numbers below or updated contact information are available on Rocstor.com website. The notification shall identify any defect, malfunction, or nonconformity promptly upon discovery. Rocstor will acknowledge receipt of the communication and issue a Return Merchandise Authorization (RMA) code. The buyer is obligated to securely and safely package(s) the product, preferably in the original packing materials, WITH THE RMA number, and deliver it together with a copy of the original purchase receipt and a description of the problem to the Rocstor home office. Buyer is responsible for the product until it is received by Rocstor. It is recommended that the product be insured during transportation by the sender. You must prepay any shipping charges, taxes, or duties associated with transportation of the product. In addition, you are responsible for insuring any product shipped or returned for service. You assume risk of loss during shipping.

Limitation of damages (Liability)

IF YOUR ROCSTOR BRANDED HARDWARE PRODUCT FAILS TO WORK AS WARRANTED ABOVE, THE ORIGINAL PURCHASER'S SOLE AND EXCLUSIVE REMEDY SHALL BE REPAIR OR REPLACEMENT. ROCSTOR'S MAXIMUM LIABILITY UNDER THIS LIMITED WARRANTY IS EXPRESSLY LIMITED TO THE LESSER OF THE PRICE YOU HAVE PAID FOR THE PRODUCT OR THE COST OF REPAIR OR REPLACEMENT OF ANY ROCSTOR HARDWARE COMPONENTS THAT

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The limited warranty period for Enteroc Storage is Three (3) Years Parts and Labor. This Limited Warranty extends only to the original purchaser or lessee of this Rocstor branded product and is not transferable to anyone who obtains ownership of the Rocstor branded product from the original purchaser or lessee.

Types of Limited Warranty Service

Your Rocstor Limited Warranty consists of repair or replacement of defective parts, including hard drives identified by Rocstor Support Organization as “pre-failure.”

Carry-in Limited Warranty Service Available Monday - Friday

Under the terms of carry-in service, you may be required to deliver your Rocstor product to the Rocstor Service Center or an authorized service location for warranty repair. You must prepay any shipping charges, taxes or duties associated with transportation of the product. In addition, you are responsible for insuring any product shipped or returned for service. You assume risk of loss during shipping.

YOU SHOULD MAKE PERIODIC BACKUP COPIES OF THE DATA STORED ON YOUR HARD DRIVE OR OTHER STORAGE DEVICES AS A PRECAUTION AGAINST POSSIBLE FAILURES, ALTERATION OR LOSS OF THE DATA. BEFORE RETURNING ANY UNIT FOR SERVICE, BE SURE TO BACK UP DATA AND REMOVE ANY CONFIDENTIAL, PROPRIETARY OR PERSONAL INFORMATION. ROCSTORAGE IS NOT RESPONSIBLE FOR DAMAGE TO OR LOSS OF ANY PROGRAMS, DATA OR REMOVABLE STORAGE MEDIA. ROCSTORAGE IS NOT RESPONSIBLE FOR THE RESTORATION OR REINSTALLATION OF ANY PROGRAMS OR DATA OTHER THAN SOFTWARE INSTALLED BY ROCSTORAGE WHEN THE PRODUCT WAS MANUFACTURED.

Rocstorage shall not be responsible or liable for backing up any data that is on a drive being returned for service. Expect that all data on the drive will be destroyed and not retrievable when returned for warranty service.

Rocstor Replaceable Parts Program

Where available, the Rocstor Replaceable Parts program ships approved replacement parts directly to you to fulfill your warranty. This will save considerable repair time. After you call the Rocstor Technical Support Center at **818.727.7000** a replaceable part can be sent directly to you. Once the part arrives, call the Rocstor Technical Support Center. A technician will assist you over the phone to ensure that the installation is quick and easy.

Service Upgrades

Rocstor offers extra coverage for your product. For information on service upgrades, visit www.rocstor.com. Service upgrades purchased in one country are not transferable to another country.

Capacity Disclaimer

Actual accessible hard drive capacity will indicate up to 10% lower than stated under different Operating Systems and formatting.

The storage volume is measured in total bytes before formatting. References to round numbers of gigabytes or terabytes are an approximation only. For example, a disk drive labeled as having 500GB (Gigabytes) has space for approximately 500,000,000 bytes before formatting. After formatting, the drive capacity is reduced by about 5% to 10% depending on the operating system and formatting used or "1GB = 1,000,000,000 bytes.

Options and Software

The Limited Warranty terms and conditions for Rocstor options are as indicated in the Limited Warranty applicable to Rocstor options. **ROCSTOR DOES NOT WARRANTY SOFTWARE PRODUCTS, INCLUDING ANY SOFTWARE PRODUCTS OR THE OPERATING SYSTEM PREINSTALLED BY ROCSTOR.** Rocstor's only obligations with respect to software distributed by Rocstor under the Rocstor brand name are set forth in the applicable end-user license or program license agreement. Non-Rocstor hardware and software products are provided "AS IS" and without any Warranty. However, non-Rocstor manufacturers, suppliers or publishers may provide their own warranties directly to you.

The data stored in Rocstor and Rocsecure storage product lines are not guaranteed by Rocstor (or the hard disk manufacturer.) We are not responsible for any loss of data. Always back up data regularly

TECHNICAL SUPPORT

Software Technical Support

Software technical support is defined as assistance with questions and issues about the software that was either preinstalled by Rocstor on the Rocstor branded product or that was included with the Rocstor branded product at the time of your purchase or lease of the product. Technical support for software is available for the first ninety (90) days from date of product purchase or lease. Your dated sales or delivery receipt, showing the date of purchase or lease of the product, is your proof of the purchase or lease date. You may be required to provide proof of purchase or lease as a condition of receiving software technical support. After the first ninety (90) days, technical support for software that was either preinstalled by Rocstor on the Rocstor branded product or included with the Rocstor branded product at the time of your purchase or lease of the product is available for a fee.

WARNING: The individual user should take care to determine prior to use whether this device is suitable, adequate or safe for the use intended. Since individual applications are subject to great variation, the manufacturer

“Rocstor” makes no representation or warranty as to the suitability or fitness of these devices for any specific application.

Technical Support

All Rocstor hard drives are backed by free telephone technical support for three (3) years from the date of purchase. Please register your product with Rocstor. To register, fill in the Limited Warranty Registration form in the Support tab at www.rocstor.com.

Free telephone technical support is available weekdays from 9 AM until 6 PM Pacific Standard Time. Customers in the United States and Canada can call toll-free: **(818) 727-7000**; all others must call **(818) 727-7000**.

When calling for support, please have the product’s serial number (printed on the label on the bottom of the drive) and system hardware information available.

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Rocstor is a California Company; U.S.A.

Contact Information

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Sales Info

Hours: 8:00 am - 5:00 pm PST
Mon - Fri (excluding holidays)
Email: sales@Rocstor.com

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