



USS4500-RS2

2-Bay SATA Gigabit Network TeraBank NAS

Maximum storage capacity to secure and share your digital files



FEATURES

- 2 x removable 3.5" SATA HDD storage up to 2TB
- Supports RAID 0, 1 & JBOD backup configuration
- Integrated 1 x Gigabit LAN port for up to 2000Mbps
- Supports 2 x USB2.0 Printer or USB Storage Ports
- Supports 2-Bay hot-swappable SATA hard drives
- Built-in advanced iTunes server and UPnP AV server
- Built-in Bit Torrent (BT) compatible P2P software
- Supports UPnP, Fixed IP and DHCP Clients Network
- Built-in Samba Server, FTP Server, and WEB Server
- 50 password-protected account for authorized users
- Supports max. 32 concurrently connected users
- Provides convenient One-Touch quick backup button
- Built-in MySQL database and photo gallery
- Firmware update Over Graphic User Interface (UGI)
- Supports EXT3 internal file system format
- Supports Unicode for Multiple-Language Characters
- CIFS/SMB for Windows, Mac, Linux Network
- Supports Accessing Management for 100 Folders

Package Contents

- One 2-Bay SATA Gigabit Storage Server
- One Setup Utility / Manual CD-ROM
- One Quick Installation Guide
- Eight HDD Fastening Screw
- One HDD Fastening Key
- One Power Adapter and One AC Power Cable

OVERVIEW

The USS4500-RS2 is a 2-bay standalone network storage server (NAS) with maximum capacity up to 2TB (Terabytes) storage. It is high-speed, economical, flexible, and powerful solutions onto your network, especially suitable for small business, SOHO or personal data sharing requirement. It supports RAID 0, 1 and JBOD modes for various HDD backup configurations to secure your valuable data or files.

Installing of USS4500-RS2 SOHO NAS is simple---just plug it directly into your network, and it's instantly available for use. The device supports express speed Gigabit Ethernet and EXT3 file format to make efficient for store and share your music, video, images (photos) or other data files with managed access by user names or group from your network.

For flexibility and utility of usage, USS4500-RS2 can be set up to be accessible directly from Internet to upload or download file either via web browser or by FTP. Files can be available publicly, or create 50 password-protected accounts for authorized users. If you enable the SWAP function for the device, the system allowed the maximum 32 concurrently connected users to access this storage device. With Unicode supported, USS4500-RS2 is compatible to multilingual file name. Along with the embedded two USB ports that give a convenient connection for USB printer, Flash Disk, or USB storage usage.

USS4500-RS2 is portable and removable external GigaFast Ethernet hard disk device. Connect it directly to a PC as additional personal storage space or add it to your network so that everyone on the network can access this storage device for store or backup purposes.

SPECIFICATIONS

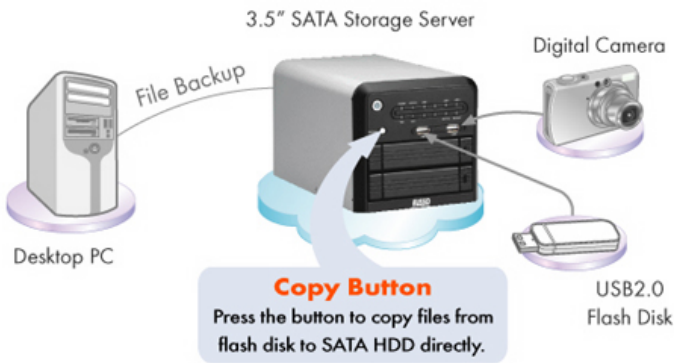
Technical Specifications	
Protocols	TCP/IP, HTTP, CIFS/SMB, FTP, DHCP, uPnP
RAID	RAID 0, RAID 1, and JBOD (Linear) modes via Software Configuration Hot Swappable
Max. Storage Capacity	2TB (Terabytes)
Language Support	Unicode Support for Multiple Language Characters
File System Type	EXT3
Integrated File Server	FTP Server Samba Server Web (HTTP) Server Print Server
Advanced Feature	Built-in iTunes Server and UPnP A Server Built-in MySQL Database and Photo Gallery Built-in BT (Bit Torrent) Compatible P2P Software Built-in Auto Power Recovery Capability 50 Password-Protected User Accounts 32 Concurrent Connection Three Pre-Defined User Authority Levels Supports UPnP, Fixed IP and DHCP Clients Auto-Detection for Newly Installing USB Device HDD Formatting Function for New HDD or USB Storage Devices Supports CIFS/SMB for Windows, MAC, Linux Network
Management	User Account Management Folder and Hard Drive Management Backup Function Group Access Management Firmware Upgrade
Operating Systems	Compatible with Windows 95 / 98 / 98SE / ME/ XP / 2000 / NT4.0 / Vista Linux / MAC OS

Hardware Specifications	
Host Interface	2 * USB2.0/1.1 Ports 1 * RJ-45 10/100/1000Mbps Gigabit LAN Port
Buttons	1 * Backup Button 1 * Factory Default Setting Button 1 * Power On/Off Switch Button
USB Connection Speed	USB2.0 (Max. 480Mbps) USB1.1 (Max. 12Mbps)
Network Connection Speed	IEEE802.3ab: 1000/2000Mbps IEEE802.3u: 100/200Mbps IEEE802.3: 10/20Mbps
Support Hard Drive	2 x Removable 3.5" SATA Hard Drive up to 2TB 2 x Standard USB2.0/1.1 External Hard Drive (Via USB Ports)
Diagnostic LEDs	Power: (Blue) Status: (Amber, Red) HDD I & HDD II: (Green) USB I & USB II: R/W (Green) LAN: 1000Mbps Link/Act (Green) ; 100Mbps Link/Act (Amber) HDD Full: (Red) Backup: (Green)
Memory	Flash: 8MB; SDRAM: 128MB
Power Supply	DC 12V/5A External Power Adapter
Dimension	210(L) x 130(W) x 120(H) mm
Weight	1.79 kg (Without HDD, Power Adapter)
EMI Certifications	FCC Class A, CE Class A, VCCI Class A

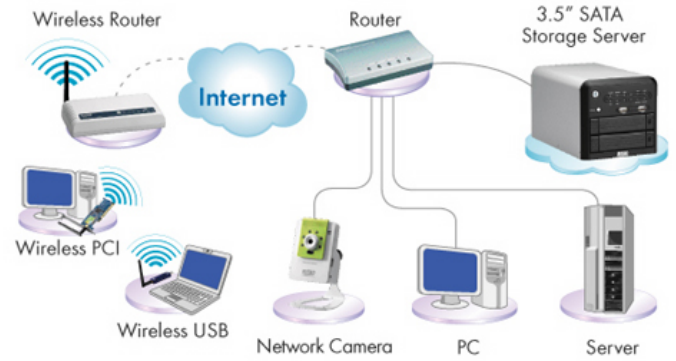
Environment	
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-10°C to 70°C (-14°F to 158°F)
Operating Humidity	10% to 65% Non-Condensing
Storage Humidity	0% to 95% Non-Condensing

SPECIFICATIONS

Personal Backup Application Diagram



FTP Server Application Diagram



USS4500-RS2 embeds FTP, Samba Web (HTTP), and Print Server. After connecting SATA storage Server, members in the LAN will be able to upload/download files to/from SATA storage device via "My Neighborhood" or FTP Client, user can also construct a WEB site with HTTP server to share their files. The Embedded print server also brings terrific convenience on sharing USB printer.

Wireless File Sharing or Data Backup Application Diagram



The Stand-alone high capacity of up to 2TB (Terabytes) network storage space can be easily access and share data through a simple network with Wireless LAN and Internet connection from anywhere or add it directly to your PC as an additional personal storage space.

Gigabit Network SATA Storage Server Application Diagram



The Network Storage Server can quickly and easily add Internal 3.5" SATA hard drive up to 2TB (Terabytes) storage space to the network, and provides authorized users access to their files or backup their data. It is an ideal device to secure, share and protect your files.

RAID DEFINITIONS

RAID Definitions and Diagrams	
<p>JBOD</p> <p>Disk 0 Disk 1 Disk 2 Disk 3</p>	<p>JBOD ---- Just a Bunch of Disks</p> <p>JBOD is not one of the numbered RAID levels and it saves data on physical disks sequentially. The controller treats each drive as a stand-alone disk, therefore each drive is an independent logical drive. This mode bundles the different sizes of hard disks as one big volume, which is bigger than the amount of individual ones. Select this mode to maximize your disk capacity but fail of data protection function.</p>
<p>RAID 0</p> <p>Disk 0 Disk 1</p>	<p>RAID 0 ---- Striped Disk Array without Fault Tolerance</p> <p>RAID 0 offers data striping without data redundancy. Data is divided into two portions and stored in two hard disks. The two hard disks are seen as one single volume and the capacity is the amount of the two hard disks. Select this mode to maximize your disk capacity and access disk with much more faster speed, but if one drive fails, all data in the array will be lost.</p>
<p>RAID 1</p> <p>Disk 0 Disk 1</p>	<p>RAID 1 ---- Mirroring and Duplexing</p> <p>RAID 1 creates an exact copy (or mirror) of a set of data on two or more disks and presents as a safe mode. The system mirrors files from one HDD to another while changes occur. That is, the same data is stored in the two hard disks respectively to protect from data losses but the total space is half. Select this mode to assure data integrity, but the storing capacity is equal to a single drive.</p>
<p>RAID 5</p> <p>Disk 0 Disk 1 Disk 2 Disk 3</p>	<p>RAID 5 ---- Block Interleaved Distributed Parity</p> <p>RAID 5 uses block-level striping with parity data distributed across all number disks and it includes a backup option. It uses parity mode of store redundant data on space equal to the size of one disk for later data on recovery. Therefore, the available storage capacity equals to a single drive. RAID 5 has achieved popularity due to its low cost of redundancy.</p>

ORDERING INFORMATION

Model	Description
USS4500-RS2	2-Bay SATA Gigabit Network Storage Server with RAID 0, 1 and JBOD Modes
USS4500-RS4	4-Bay SATA Gigabit Network Storage Server with RAID 0, 1, 5 and JBOD Modes

EUSSO Technologies, Inc. is a dedicated data communication and networking company. With professional experiences in design, production, marketing and service support, we deliver the full range networking products including Gigabit Ethernet, Fiber Optic, Wireless LAN, Switches, Hubs, LAN cards, PCMCIA adapters, Converter, Transceivers. As well as Internet Telephony Gateway, Print Servers, Internet Sharing Servers and many others.

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EUSSO Technologies, Inc.

6F, No.389, Sec.2, Chung Shan Road, Chung Ho City, Taipei 235-58, Taiwan

TEL:+886 (2) 8221-4616 E-mail:sales@eusso.com

FAX:+886 (2) 8221-4607 http://www.eusso.com