BLACK**ARMOR**® | NAS 440 / 420

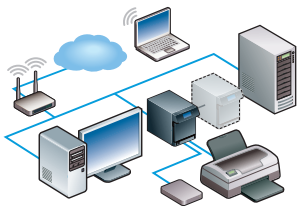Network Attached Storage Server

Interface 10/100/1000 Ethernet, USB 2.0
Capacities 2TB, 4TB, 6TB, 8TB

The Seagate® BlackArmor® NAS 440/420 storage server is a complete, small-business-specific network storage solution designed to provide optimum uptime and data integrity to ensure business continuity for up to 50 workstations. Continuously and automatically protect business-critical data with incremental and full-system backup, bare metal restore (full-system restore) and individual file to entire volume encryption. Enhance data integrity and/or performance with RAID 0/1/5/10 & JBOD configuration options. Access files securely over the internet from any popular web browser — no special software required. Includes four energy efficient, reliable Seagate® hard drives. All four drives are easily removable without tools and hot-swappable to optimize uptime and data availability. Backed by a 3-year limited warranty from Seagate, the world leader in storage technology.

BlackArmor NAS 420

The BlackArmor NAS 420 storage server has the same hardware and software features as the BlackArmor NAS 440 storage server, but has two hard drives preinstalled instead of four. As your business grows, add two more hard drives to the system to take advantage of RAID 5/10 configurations and increase storage capacity.

Highlights

- Designed for small business to provide optimum uptime and data integrity for up to 50 workstations.
- Supports Windows® XP, Windows Vista® operating systems and Mac OS® X 10.4.11 or later.
- Includes energy efficient, reliable Seagate® hard drives.
- Incremental and full-system, scheduled, automatic backup for network connected PCs using Windows® XP and Windows Vista® operating systems.
- Secure internet access from any popular web browser – no special software required.
- Hot-swappable, user-replaceable drives — no tools required.
- Two Ethernet ports for local network connection, port failover and NAS to NAS replication.

- User-configurable RAID 0/1/5/10 & JBOD.
- Four USB 2.0 ports for external drives, printers and UPS (uninterrupted power supply).
- Offers the level of security that is right for your business – from individual files to entire volume encryption.
- On-board LCD screen for quick status info.
- Microsoft® Active Directory support.
- Multi-volume management.
- Event email notification.
- DLNA and iTunes® media streaming.
- 3-year limited warranty.

Perfect for when you need to:

- Store and access files from a central, secure location
- Access and manage files remotely
- Backup or move files to a secondary storage device
- Automatically perform full-system backups on network connect PCs
- Share a USB printer with network connected PCs and Macs
- Encrypt individual files to entire volumes of data
- Stream media with DLNA or iTunes®

Connectivity

- Two Ethernet ports for local network connection, port failover and NAS to NAS replication
- Four USB 2.0 ports for external drives, printers and UPS
- Four internal SATA II ports

Seagate

Designed to provide optimum uptime and data integrity.

Centralized Network Storage Server for Small Business
The Seagate® BlackArmor® NAS 440/420 is a small-business-specific network storage server designed to provide optimum uptime and data integrity for up to 50 workstations. Hardware, software and services are combined to provide a comprehensive solution for ensuring business continuity.
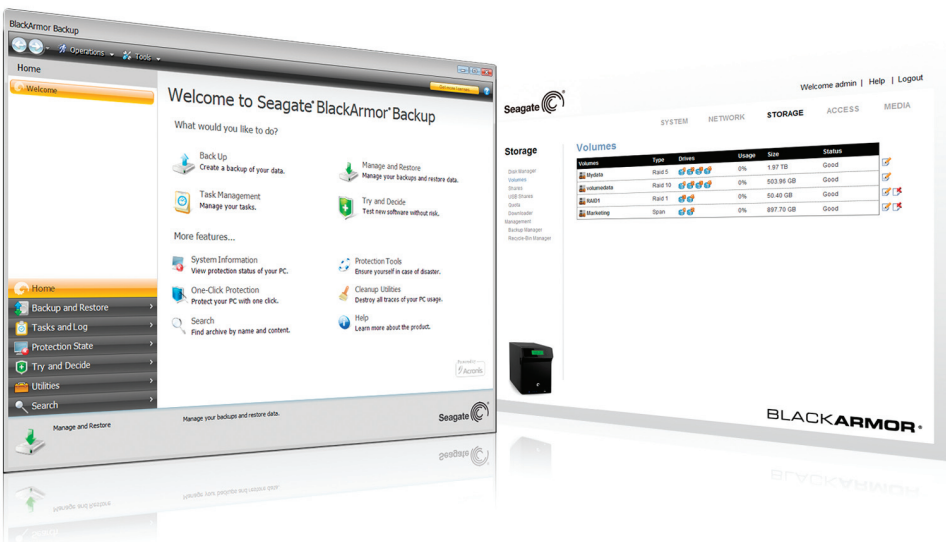
Performance that Keeps Pace with Your Business
The BlackArmor NAS 440 storage server makes no compromises when it comes to hardware, with Seagate® drives, 1.2 GHZ processor, 256 MB RAM and dual Gigabit Ethernet ports, you will experience incredible performance – including read speeds of up to 50 MB/s in RAID 5 configuration. The dual Gigabit Ethernet ports can also be connected to your network in tandem for port failover protection or use one for network connectivity and the other for NAS to NAS replication.

The BlackArmor NAS 440 storage server includes four energy efficient, reliable Seagate hard drives, which are easily removeable without tools. Swapping a hard drive usually involves screws, a screwdriver and a little elbow grease. But with our unique cartridge system, you simply secure the drive with pins attached to the cartridge and then slide the cartridge into the drive bay. Since the drives are hot-swappable, there is no need to shut the server down for maintenance or upgrades.

Expansion
The one front-mounted and three rear-mounted USB 2.0 ports allow you to connect external USB hard drives for additional storage, manage off-site data rotation, easily share a USB printer with all of your network connected workstations or connect a UPS (uninterrupted power supply) to safeguard from power failure.

Business-grade Protection
Software plays an important role in achieving business continuity and with BlackArmor, you can expect nothing less than business-grade. To protect your critical data, our software package provides scheduled and automatic, incremental and full-system backup. In the event of PC hardware failure, you can utilize the bare metal restore feature to recover your entire system, including the operating system, programs and settings. The included software also allows you to choose the level of security that is right for your business, from individual file to entire volume encryption. Furthermore, the four drives can be configured to provide your business with the optimal mix of performance, redundancy and storage capacity. Choose from RAID 0/1/5/10 & JBOD configuration options.

You're in Control

In addition to the included software, the web-based management interface and BlackArmor® Discovery tool are also straightforward to use. The BlackArmor Discovery tool allows you to get up and running quickly by displaying all of the BlackArmor NAS products connected to your network. From the discovery tool, with a single click, you can view or map the shared volume to your computer, access the web-based user interface or back up the PC you are working from. The BlackArmor NAS 440 storage server can also be managed remotely with DDNS, which can be configured with the web-based management interface.

With the Seagate Global Access™ service, you can securely access files remotely from any popular web browser — no special software required.

Experience the Whole Family

Purchasing products from the BlackArmor family will simplify installation and maintenance when your business needs a combination of network-attached, workstation-attached and portable storage to meet your business needs. The BlackArmor family of products share the same business-grade software, which will reduce the amount of time spent on deployment and maintenance.

We're Here for You

In addition to the BlackArmor family's business-grade software and robust hardware, Seagate offers services such as: priority tech support, data recovery and extended warranties.
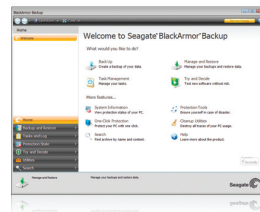
For more information about services, their respective pricing, or to view the full portfolio of BlackArmor storage solutions, visit www.seagate.com.

Accessories

To ensure optimum data availability and growth potential for your business, we offer a line of accessories designed to integrate and upgrade the BlackArmor NAS 400 series. The entire line of accessories is designed to be user-serviceable for easy replacement and upgrades.

BlackArmor Backup Software
Additional BlackArmor Backup software licenses are available in quantities of 2 and 5. Purchase a license for all of your PCs to ensure data protection and simplify your workstation backup strategy.

Drive Cradle
Additional drive cradles are available for replacement or easy swap for archiving drives.

Seagate® Barracuda® Internal Drive
If you decide to upgrade to a larger capacity or install additional drives (NAS 420), you can purchase the same efficient, reliable Barracuda drives that come preinstalled in the BlackArmor NAS 400 series.

Power Supply

Fan

Visit www.seagate.com to learn more or purchase accessories.

Product Dimensions	Horiz x Vert x Depth - 6.30"x 8.15" x 10.59" (160.00mm x 207.00mm x 269.00mm)
	Weight: **NAS440- 13.60lbs (6.16kg)**, NAS420- 10.55lbs (4.8kg)

Retail Packaging Specs	Box dimensions: Horiz x Vert x Depth - 9.29" x 9.50mm" x 14.37" (236.00mm x 241.30.00mm x 365.00mm)
	Box weight: **NAS440- 16.60lbs (7.54kg)**, NAS420- 13.41lbs (6.08kg)
	Master carton dimensions: Horiz x Vert x Depth - 15.00" x 10.20" x 19.33" (381.00mm x 259.00mm x 491.00mm)
	Master carton weight: **NAS440- 36.05lbs (15.42kg)**, NAS420- 29.67lbs (13.46kg)
	Master carton quantity: 2
	Master cartons per pallet: 24
	Pallet dimensions: Horiz x Vert x Depth - 39.37" x 47.10" x 47.25" (1000.00mm x 1196.00mm x 1200.00mm)
	Pallet weight: **NAS440- 918.20lbs (417.12kg)**, NAS420- 765.09lbs (347.04kg)
	Pallet layers: 4

Technical Specifications

*The BlackArmor NAS 420 storage server contains four drive bays, two drives are included. Three drives are need for RAID 5 and four drives are need for RAID 10.

Drive Performance	SATA II	
Connectivity	• 4 Internal SATA II ports	• 4 USB 2.0 host ports (3-Rear, 1-Front)
	• 2 RJ45 Ethernet (Gigabit)	
Network Protocols	CIFS, NFS, HTTP, HTTPS, FTP, Bonjour, Microsoft RALLY®	
Network Authentication	Microsoft Windows® Server Active Directory	
File Sharing Protocols	CIFS, NFS, HTTPS, FTP	
File System Management	RAID 0, 1, 10, 5, JBOD*	
Volume Management	• Share management	• Share folder level Access Control List (ACL) support
	• Volume level encryption	• Quotas setting
Disk Management	• Multi-volume management	
	• SMART status monitor	
Backup Management	• Local backup (USB device to NAS, NAS to USB device)	• Client system backup, Bare Metal Restore over network
	• Network NAS to NAS replication	
Event Management	Event email notification	
Media Streaming	• iTunes® server	
	• DLNA compliant digital media server	
Download Server	Downloader (HTTP and FTP)	
Remote Access	Seagate Global Access™ service	

Software Requirements	**PC On Network**	**Mac On Network**
	• Pentium III, 500MHz equivalent processor or higher	• Mac OS X 10.4.11 or later
	• Microsoft® Windows® XP or Windows Vista® operating system	• Apple Safari 3.1 or later
	• Linux Kernel 2.6.7 or later	
	• Internet Explorer 6.0 or later, or Firefox 2.X or later (for management interface and web access)	
	• 256MB RAM	

System Requirements	• Local area network (LAN)	• Wired or wireless router with an available 10/100/1000 Ethernet Port
	• Internet connection (for system updates and web access)	

Inside the Box	• BlackArmor NAS 400 series storage server	• CD-ROM with
	• Four Seagate drives (NAS 440), two Seagate drives (NAS 420)	- BlackArmor Discovery Software for Windows
	• 2M – RJ45 Cable	- BlackArmor Discovery Software for Macintosh
	• AC Power Cord	- BlackArmor Backup Software for Windows (10 licenses*)
	• Quick Start Guide	- System Recovery Boot for Windows (Required in the event of hard drive failure)
		*Additional licenses available

Region	Product	Capacity	Model Number	UPC Code	EAN Code	Multi-pack UPC
US	BlackArmor 420	2TB	ST320005SHA10G-RK	763649015193		10763649015190
US	BlackArmor 440	4TB	ST340005SHA10G-RK	763649015902		10763649015909
US	BlackArmor 440	6TB	ST360005SHA10G-RK	763649015919		10763649015916
US	BlackArmor 440	8TB	ST380005SHA10G-RK	763649015926		10763649015923
EMEA	BlackArmor 420	2TB	ST320005SHD10G-RK		7636490014482	10763649015930
EMEA	BlackArmor 440	4TB	ST340005SHD10G-RK		7636490014512	10763649015961
EMEA	BlackArmor 440	6TB	ST360005SHD10G-RK		7636490014529	10763649015978
EMEA	BlackArmor 440	8TB	ST380005SHD10G-RK		7636490014536	10763649015985

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