



# BLACKARMOR® | NAS 440 / 420

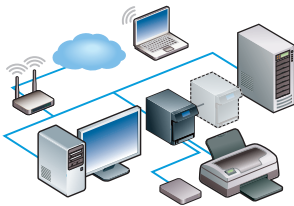
Network Attached Storage Server

**Interface** 10/100/1000 Ethernet, USB 2.0

**Capacities** 2TB, 4TB, 6TB, 8TB

## Perfect for when you need to:

- Store and access files from a central, secure location
- Access and manage files remotely
- Back up or move files to a secondary storage device
- Perform full-system backups automatically on network-connected 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

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. Protects business-critical data continuously and automatically with incremental and full-system backups, bare-metal restore (full-system restore) and individual file to entire volume encryption. Enhances data integrity and/or performance with RAID 0/1/5/10 and JBOD configuration options. Accesses 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 optimise 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 businesses 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



World Leader in Storage Solutions

# Designed to provide optimum uptime and data integrity



## Centralised Network Storage Server for Small Businesses

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

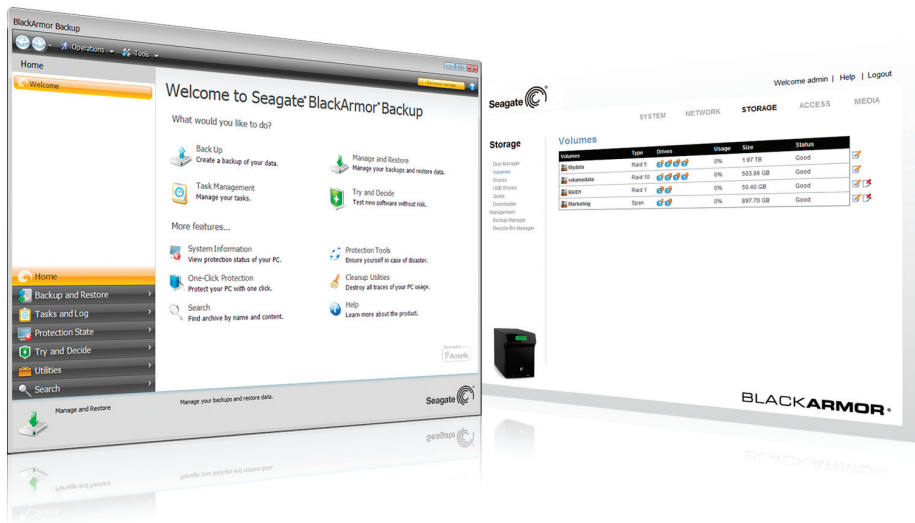
The BlackArmor NAS 440 storage server makes no compromises when it comes to hardware, with Seagate drives, 1.2-GHZ processor, 256-MB RAM and dual Gigabit Ethernet ports, you will experience incredible performance – including read speeds of up to 50 MB/s in a RAID 5 configuration. The dual Gigabit Ethernet ports can also be connected to your network in tandem for port failover protection or you can 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 removable 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 offsite data rotation, share a USB printer easily 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 backups. In the event of PC hardware failure, you can use 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 and JBOD configuration options.

### You are 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 be 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 are 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](http://www.seagate.com).

**Product Dimensions**

Horiz x Vert x Depth - 6.30" x 8.15" x 10.59" (160.00mm x 207.00mm x 269.0 mm)  
 Weight: **NAS440- 13.60lbs (6.16kg)**, NAS420- 10.55lbs (4.8kg)

**Retail Packaging Specs**

Box dimensions: Horiz x Vert x Depth - 9.29" x 9.50" x 14.37" (236.00mm x 241.30mm 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**

<b>Drive Performance</b>	SATA II
<b>Connectivity</b>	<ul style="list-style-type: none"> <li>• 4 Internal SATA II ports</li> <li>• 2 RJ45 Ethernet (Gigabit)</li> <li>• 4 USB 2.0 host ports (3-Rear, 1-Front)</li> </ul>
<b>Network Protocols</b>	CIFS, NFS, HTTP, HTTPS, FTP, Bonjour, Microsoft RALLY®
<b>Network Authentication</b>	Microsoft Windows Server Active Directory
<b>File Sharing Protocols</b>	CIFS, NFS, HTTPS, FTP
<b>File System Management</b>	RAID 0, 1, 10, 5, JBOD*
<b>Volume Management</b>	<ul style="list-style-type: none"> <li>• Share management</li> <li>• Volume level encryption</li> <li>• Share folder level Access Control List (ACL) support</li> <li>• Quotas setting</li> </ul>
<b>Disc Management</b>	<ul style="list-style-type: none"> <li>• Multi-volume management</li> <li>• SMART status monitor</li> </ul>
<b>Backup Management</b>	<ul style="list-style-type: none"> <li>• Local backup (USB device to NAS, NAS to USB device)</li> <li>• Network NAS to NAS replication</li> <li>• Client system backup, bare-metal restore over network</li> </ul>
<b>Event Management</b>	Event email notification
<b>Media Streaming</b>	<ul style="list-style-type: none"> <li>• iTunes server</li> <li>• DLNA compliant digital media server</li> </ul>
<b>Download Server</b>	Downloader (HTTP and FTP)
<b>Remote Access</b>	Seagate Global Access service

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

**Software Requirements**

<b>PC on Network</b>	<b>Mac on Network</b>
<ul style="list-style-type: none"> <li>• Pentium III, 500-MHz equivalent processor or higher</li> <li>• Microsoft Windows XP or Windows Vista operating system</li> <li>• Linux Kernel 2.6.7 or later</li> <li>• Internet Explorer 6.0 or later, or Firefox 2.X or later (for management interface and web access)</li> <li>• 256-MB RAM</li> </ul>	<ul style="list-style-type: none"> <li>• Mac OS X 10.4.11 or later</li> <li>• Apple Safari 3.1 or later</li> </ul>

**System Requirements**

<ul style="list-style-type: none"> <li>• Local area network (LAN)</li> <li>• Internet connection (for system updates and web access)</li> </ul>	<ul style="list-style-type: none"> <li>• Wired or wireless router with an available 10/100/1000 Ethernet port</li> </ul>
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**Inside the Box**

<ul style="list-style-type: none"> <li>• BlackArmor NAS 400 series storage server</li> <li>• Four Seagate drives (NAS 440), two Seagate drives (NAS 420)</li> <li>• 2-M – RJ45 Cable</li> <li>• AC Power Cord</li> <li>• Quick Start Guide</li> </ul>	<ul style="list-style-type: none"> <li>• CD-ROM with           <ul style="list-style-type: none"> <li>- BlackArmor Discovery Software for Windows</li> <li>- BlackArmor Discovery Software for Macintosh</li> <li>- BlackArmor Backup Software for Windows (10 licences*)</li> <li>- System Recovery Boot for Windows (required in the event of hard drive failure)</li> </ul> </li> </ul>
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\*Additional licences available

Product	Capacity	Model Number	EAN Code	Multi-pack UPC
BlackArmor NAS420	2 TB	ST320005SHD10G-RK	7636490014482	10763649015930
BlackArmor NAS440	4 TB	ST340005SHD10G-RK	7636490014512	10763649015961
BlackArmor NAS440	6 TB	ST360005SHD10G-RK	7636490014529	10763649015978
BlackArmor NAS440	8 TB	ST380005SHD10G-RK	7636490014536	10763649015985



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