



# Storage Solutions Guide

OCT 2012 | APAC



Seagate Technology LLC  
10200 South De Anza Boulevard  
Cupertino, California 95014  
408-658-1000

# Holidays happen.



# Back them up.

With a Backup Plus drive, they'll never miss the moment.

# Contents

**External Storage Solutions**

- AT-A-GLANCE PRODUCT COMPARISON ..... 2
- BACKUP PLUS PORTABLE ..... 5
- BACKUP PLUS PORTABLE FOR MAC ..... 6
- THUNDERBOLT™ BACKUP PLUS FOR MAC PORTABLE..6
- BACKUP PLUS DESKTOP FOR MAC ..... 7
- THUNDERBOLT™ BACKUP PLUS FOR MAC DESKTOP .. 7
- BACKUP PLUS DESKTOP..... 8
- SLIM PORTABLE FOR MAC..... 8
- SLIM PORTABLE..... 9
- EXPANSION™ DESKTOP..... 9
- EXPANSION™ PORTABLE..... 10
- GOFLEX SATELLITE™..... 10
- GOFLEX HOME..... 11
- BLACKARMOR® NAS 4400/400 ..... 12
- BLACKARMOR NAS 220..... 13

**Internal Storage Solutions**

- AT-A-GLANCE PRODUCT COMPARISON ..... 14
- DESKTOP STORAGE SOLUTIONS**
- DESKTOP PRODUCTS MATRIX ..... 17
- DESKTOP HDD ..... 18

**LAPTOP STORAGE SOLUTIONS**

- LAPTOP PRODUCTS MATRIX..... 21
- LAPTOP SSHD..... 22
- LAPTOP HDD..... 23
- LAPTOP THIN HDD ..... 24

**ENTERPRISE STORAGE SOLUTIONS**

- ENTERPRISE PRODUCTS MATRIX ..... 27
- ENTERPRISE PERFORMANCE 10K HDD..... 28
- ENTERPRISE PERFORMANCE 15K HDD..... 29
- CHEETAH® 15K..... 29
- CONSTELLATION ES.3..... 30
- ENTERPRISE CAPACITY 3.5 HDD.2..... 31
- ENTERPRISE CAPACITY 3.5 HDD..... 31
- ENTERPRISE VALUE..... 32
- ENTERPRISE CAPACITY 2.5 HDD..... 32
- ENTERPRISE SATA SSD..... 33

**SEAGATE SPECIALTY**















- VIDEO STORAGE PRODUCTS MATRIX..... 35
- VIDEO 3.5 HDD ..... 36
- SURVEILLANCE HDD ..... 36
- PARTNER RESOURCES AND BENEFITS ..... 37
- SERVICE AND SUPPORT..... 37

[www.seagate.com](http://www.seagate.com)

© 2012 Seagate Technology LLC. All rights reserved. Seagate, Seagate Technology and the Wave logo are registered trademarks of Seagate Technology LLC in the United States and/or other countries. AcuTrac, Barracuda, BlackArmor, Cheetah, Constellation, Constellation.2, DiscWizard, EVault, Expansion, GoFlex, GoFlex Satellite, G-Force Protection, Momentus, OptiCache, Pipeline, Pipeline HD, PowerChoice, PowerFirm, Pulsar, Savvio, SmartAlign and S235 Series are either trademarks or registered trademarks of Seagate Technology LLC or one of its affiliated companies in the United States and/or other countries. Thunderbolt and the Thunderbolt logo are trademarks or registered trademarks in the U.S. and/or other countries. All other trademarks or registered trademarks are the property of their respective owners. When referring to drive capacity, one gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes. Your computer's operating system may use a different standard of measurement for drive capacity than what is printed on the drive, which may result in a difference in available capacity, and this will not be available for data storage. Quantitative usage examples for various applications are for illustrative purposes. Actual quantities will vary based on various factors, including file size, file format, features and application software. The export or re-export of hardware or software containing encryption may be regulated by the U.S. Department of Commerce, Bureau of Industry and Security (for more information, visit [www.bis.doc.gov](http://www.bis.doc.gov)). The FPS logo is a certification mark of NIST, which does not imply product endorsement by NIST, the U.S., or Canadian governments. Seagate reserves the right to change, without notice, product offerings or specifications. No part of this publication may be reproduced in any form without written permission from Seagate Technology LLC. SG13511.11-1210US, October 2012

# External Storage

## At-a-Glance Product Comparison

	BACKUP PLUS				SLIM			EXPANSION™		
<b>Direct Attached/ Portable</b>										
<b>PERFECT FOR</b>	Protecting and sharing digital memories		Keeping your digital life safe	Keeping your digital life safe and sound	Keeping your digital life safe and sound	Keeping your digital life safe and sound	Thin storage that fits—and goes—anywhere	Protecting and sharing your digital life		
<b>DESCRIPTION</b>	Store and back up the content on your social networks with these flexible, portable drives. PC or Mac.		These desktop drives provide the simple, one-click way to protect and share files. PC or Mac.	These desktop drives provide the simple, one-click way to protect and share files. PC or Mac.	These desktop drives provide the simple, one-click way to protect and share files. PC or Mac.	These desktop drives provide the simple, one-click way to protect and share files. PC or Mac.	This ultra-thin metal design is the world's sleekest portable external hard drive. PC or Mac.	Expansion drives allow you to instantly add more storage space to your computer and take large files with you.		
<b>LEARN MORE</b>	Page 5	Page 6	Page 6	Page 8	Page 7	Page 7	Page 9	Page 10	Page 9	Page 9
<b>Wireless Mobile</b>	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>GOFLEX</b></p>  <p>GoFlex Satellite™</p> <p>Wireless storage for your tablet</p> <p><b>PERFECT FOR</b></p> <p>Take your media library on the go and stream it wirelessly to your iPad, Android tablet and smartphone. PC or Mac.</p> <p><b>LEARN MORE</b></p> <p>Page 10</p> </div> <div style="width: 45%;"> <p><b>GOFLEX</b></p>  <p>GoFlex Home</p> <p>Wireless centralized home storage</p> <p><b>PERFECT FOR</b></p> <p>This network storage system supports the external storage needs of every computer in your home. PC or Mac.</p> <p><b>DESCRIPTION</b></p> <p>A complete, small-business-specific network storage solution designed to provide optimum uptime and data integrity for up to 50 workstations.</p> <p><b>LEARN MORE</b></p> <p>Page 11</p> </div> </div>									
<b>Network Attached</b>	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>BLACKARMOR®</b></p>  <p>BlackArmor NAS 440</p> <p>Full-system backup, RAID 0, 1, 5, 10 or JBOD</p> <p><b>PERFECT FOR</b></p> <p>A network attached storage solution designed to provide centralized storage and data backup.</p> <p><b>LEARN MORE</b></p> <p>Page 12</p> </div> <div style="width: 45%;"> <p><b>BLACKARMOR®</b></p>  <p>BlackArmor NAS 220</p> <p>Full-system backup, RAID 0 or 1</p> <p><b>PERFECT FOR</b></p> <p>A network attached storage solution designed to provide centralized storage and data backup.</p> <p><b>LEARN MORE</b></p> <p>Page 13</p> </div> </div>									



# External Storage Solutions

Seagate external storage solutions are sleek, dependable and ultra-portable products that let your customers automatically and continuously store digital family photos, protect critical business data, back up multiple computers on a small network, or share and store videos and music.

## Backup Plus

The Backup Plus portable drive is the simple way to protect and share your entire digital life.

### Key Advantages

- Easy, flexible backups
- Automatically saves photos from social networks
- Photos and videos can be shared to social networks with a click.
- Thunderbolt technology or FireWire 800 upgrade allows higher transfer speeds

### Best-Fit Applications

- Store or back up photos, movies, music and documents.
- Download and save content that's posted on your social networks.
- Share your digital memories to your social networks with a click.

CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
1TB	STBU1000100	USB 3.0	● Black	PC, Mac
1TB	STBU1000101	USB 3.0	● Silver	PC, Mac
1TB	STBU1000102	USB 3.0	● Blue	PC, Mac
1TB	STBU1000103	USB 3.0	● Red	PC, Mac
750GB	STBU750100	USB 3.0	● Black	PC, Mac
500GB	STBU500100	USB 3.0	● Black	PC, Mac
500GB	STBU500101	USB 3.0	● Silver	PC, Mac
500GB	STBU500102	USB 3.0	● Blue	PC, Mac
500GB	STBU500103	USB 3.0	● Red	PC, Mac

PRODUCT DIMENSIONS  
4.86-in L x 3.19-in W x 0.57-in D  
(123.4mm x 81.1mm x 14.5mm)

PACKAGE DIMENSIONS  
5.2-in L x 1.81-in W x 6.54-in D  
(132mm x 46mm x 166mm)



## Backup Plus for Mac

The Backup Plus portable drive for Mac is the simple way to protect and share your entire digital life.

### Key Advantages

- Mac OS and Time-Machine ready out of the box
- Automatically saves photos from social networks
- Share photos and video to social networks with a click.
- Easily increase transfer speeds by upgrading to Thunderbolt technology.

### Best-Fit Applications

- Store or back up photos, movies, music and documents.
- Download and save content that's posted on your social networks.
- Share your digital memories to your social networks with a click.



CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
1TB	STBW1000301	USB 3.0	● Silver/ ○ White	Mac, PC
500GB	STBW500301	USB 3.0	● Silver/ ○ White	Mac, PC
<b>PRODUCT DIMENSIONS</b>	4.86-in L x 3.19-in W x 0.57-in D (123.4mm x 81.1mm x 14.5mm)			
<b>PACKAGE DIMENSIONS</b>	5.2-in L x 1.81-in W x 6.54-in D (132mm x 46mm x 166mm)			

## Thunderbolt™ Backup Plus for Mac Portable

The Thunderbolt Backup Plus for Mac portable drive is everything you need to transfer, store and back up files using Thunderbolt technology.

### Key Advantages

- Includes Thunderbolt cable, adapter and drive
- Compatible with Time Machine software
- Compatible with Thunderbolt devices
- No external power supply required

### Best-Fit Applications

- Combine high-speed data transfer and high-definition display in a single interface
- Unleash your creativity using high-bandwidth media-capturing devices while processing in real time
- Handle vast amounts of data more precisely than with any other connection
- Back up and restore data at 10Gbps



CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
1TB	STBW1000401	Thunderbolt	● Black	Mac, PC
<b>PRODUCT DIMENSIONS</b>	5.12-in L x 3.19-in W x 1.09-in D (130mm x 81mm x 27.8mm)			
<b>PACKAGE DIMENSIONS</b>	6.69-in L x 5.24-in W x 1.81-in D (170mm x 133mm x 46mm)			

## Backup Plus Desktop for Mac

The Backup Plus desktop drive for Mac is the simple, one-click way to protect and share your entire digital life.

### Key Advantages

- Mac OS and Time Machine ready right out of the box
- Automatically saves photos from social networks
- Share photos and video to social networks with a click.
- Up to 3TB capacity for a lifetime of memories

### Best-Fit Applications

- Back up all your important files.
- Download and save content that's posted on your social networks.
- Share your digital memories to your social networks with a click.



CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
3TB	STCB3000900	FireWire 800/ USB 3.0	● Black/ ● Silver	Mac, PC
2TB	STCB2000900	FireWire 800/ USB 3.0	● Black/ ● Silver	Mac, PC
<b>PRODUCT DIMENSIONS</b>	6.22-in L x 4.98-in W x 1.73-in D (158mm x 124mm x 44mm)			
<b>PACKAGE DIMENSIONS</b>	7.87-in L x 9.06-in W x 3.54-in D (200mm x 230mm x 90mm)			

## Thunderbolt Backup Plus for Mac Desktop

The Thunderbolt Backup Plus for Mac desktop drive is everything you need to transfer, store and back up files using Thunderbolt technology.

### Key Advantages

- Includes Thunderbolt cable, adapter and drive
- Dual ports enable daisy-chaining up to six devices
- Compatible with Thunderbolt displays and other devices
- Compatible with Time Machine software

### Best-Fit Applications

- Combine high-speed data transfer and high-definition display in a single interface
- Unleash your creativity using high-bandwidth media-capturing devices while processing in real time
- Handle vast amounts of data more precisely than with any other connection
- Back up and restore data at 10Gbps



CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
3TB	STCB3000400	Thunderbolt	● Black	Mac, PC
<b>PRODUCT DIMENSIONS</b>	6.61-in L x 4.76-in W x 2.42-in D (168mm x 120.9mm x 61.4mm)			
<b>PACKAGE DIMENSIONS</b>	8.64-in L x 9.13-in W x 3.5-in D (219.5mm x 232mm x 89mm)			

## Backup Plus Desktop

The Backup Plus desktop drive is the simple, one-click way to protect and share your entire digital life.

### Key Advantages

- Easy, flexible, built-in backup options
- Automatically saves photos from social networks
- Photos and videos can be shared to social networks with a click.
- Up to 4TB capacity for a lifetime of memories
- Increase transfer speeds by upgrading to Thunderbolt technology or FireWire 800.

### Best-Fit Applications

- Back up all your important files.
- Download and save content that's posted on your social networks.
- Share your digital memories to your social networks with a click.



CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
<b>4TB</b>	STCA4000100	USB 3.0	● Black	PC, Mac
<b>3TB</b>	STCA3000100	USB 3.0	● Black	PC, Mac
<b>2TB</b>	STCA2000100	USB 3.0	● Black	PC, Mac
<b>1TB</b>	STCA1000100	USB 3.0	● Black	PC, Mac

PRODUCT DIMENSIONS	PACKAGE DIMENSIONS
6.22-in L x 4.88-in W x 1.73-in D (158mm x 124mm x 44mm)	7.87-in L x 9.06-in W x 3.54-in D (200mm x 230mm x 90mm)

## Slim Portable for Mac

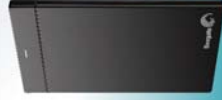
The Seagate Slim portable drive for Mac combines our thinnest, sleekest form factor in a Time Machine-ready drive.

### Key Advantages

- World's thinnest portable external hard drive
- Mac OS and Time Machine ready out of the box
- Automatically saves photos from social networks
- Photos and videos can be shared to social networks with a click.

### Best-Fit Applications

- Store or back up photos, movies, music and documents.
- Download and save content that's posted on your social networks.
- Share your digital memories to your social networks with a click.



CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
<b>500GB</b>	STCF500400	USB 3.0	● Black	Mac, PC
<b>PRODUCT DIMENSIONS</b>	4.91-in L x 3.07-in W x 0.35-in D (124.8mm x 78mm x 9mm)			
<b>PACKAGE DIMENSIONS</b>	5.2-in L x 1.81-in W x 6.52-in D (132mm x 46mm x 165.5mm)			

## Slim Portable

The Seagate Slim portable drive is our thinnest, sleekest way yet to back up the things that are important to you.

### Key Advantages

- World's thinnest portable external hard drive
- Protects your stuff with easy, flexible backups
- Automatically saves photos from social networks
- Photos and videos can be shared to social networks with a click.

### Best-Fit Applications

- Store or back up photos, movies, music and documents.
- Download and save content that's posted on your social networks.
- Share your digital memories to your social networks with a click.



CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
<b>500GB</b>	STCD500100	USB 3.0	● Black	PC, Mac
<b>PRODUCT DIMENSIONS</b>	4.91-in L x 3.07-in W x 0.35-in D (124.8mm x 78mm x 9mm)			
<b>PACKAGE DIMENSIONS</b>	5.2-in L x 1.81-in W x 6.52-in D (132mm x 46mm x 165.5mm)			

## Expansion™ Desktop

The Expansion desktop drive provides extra storage for your ever-growing collection of files.

### Key Advantages

- Simple and straightforward setup
- No software to install and nothing to configure
- Saving files is easy—simply drag and drop.
- USB 3.0 interface allows fast transfer speeds.

### Best-Fit Applications

- Instantly add more storage space to your computer.
- Improve performance on your computer's internal drive by freeing up space on your internal drive.



CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
<b>3TB</b>	STBV3000100	USB 3.0	● Black	PC
<b>2TB</b>	STBV2000100	USB 3.0	● Black	PC
<b>1TB</b>	STBV1000100	USB 3.0	● Black	PC
<b>PRODUCT DIMENSIONS</b>	7.07-in L x 4.65-in W x 1.48-in D (179.5mm x 118mm x 37.5mm)			
<b>PACKAGE DIMENSIONS</b>	9.09-in L x 7.97-in W x 2.83-in D (231mm x 202mm x 72mm)			

## Expansion™ Portable

The Expansion portable drive is compact and perfect for taking large files with you on-the-go.

### Key Advantages

- Simple and straightforward setup
- Powered from the USB cable
- Saving files is easy — simply drag and drop.
- USB 3.0 interface allows fast transfer speeds.

### Best-Fit Applications

- Instantly add more storage space to your computer.
- Take large files with you when you travel.



CAPACITY*	KIT NUMBER*	INTERFACE	COLOR	OS
1TB	STBX1000101	USB 3.0	● Black	PC
750GB	STBX750100	USB 3.0	● Black	PC
500GB	STBX500100	USB 3.0	● Black	PC
PRODUCT DIMENSIONS (1TB)	5.04-in L x 3.51-in W x 0.87-in D (128.1mm x 89.1mm x 22mm)			
PRODUCT DIMENSIONS (500GB)	4.81-in L x 3.19-in W x 0.61-in D (122.3mm x 81.1mm x 15.5mm)			
PACKAGE DIMENSIONS	5.28-in L x 6.69-in W x 1.89-in D (134mm x 170mm x 48mm)			

## GoFlex® Home

The GoFlex Home network storage system allows you to create secure in-home cloud storage for multiple computers in the home.

### Key Advantages

- Connects to your WiFi router
- Simple setup in just minutes
- Automatic and continuous backup
- Easily update storage capacity or plug in external drives — no tools required.

### Best-Fit Applications

- Back up multiple home PC and Mac computers.
- Store files in a central location.
- Access files from computers and mobile devices over the Internet.
- Stream media to game consoles and media players.
- Share a USB printer with all computers in the home.



CAPACITY*	KIT NUMBER*	INTERFACE	COLOR	OS
3TB	STAM3000100	SATA/GigE	■ Black	PC, Mac
2TB	STAM2000100	SATA/GigE	■ Black	PC, Mac
1TB	STAM1000100	SATA/GigE	■ Black	PC, Mac
PRODUCT DIMENSIONS	3.13-in L x 5.31-in W x 6.75-in D (80mm x 135mm x 171mm)			
PACKAGE DIMENSIONS	10.04-in L x 3.07-in W x 7.64-in D (255mm x 78mm x 194mm)			

## GoFlex Satellite™

With GoFlex Satellite mobile wireless storage, you can take your media library with you. Stream it to your iPad or Android tablet.

### Key Advantages

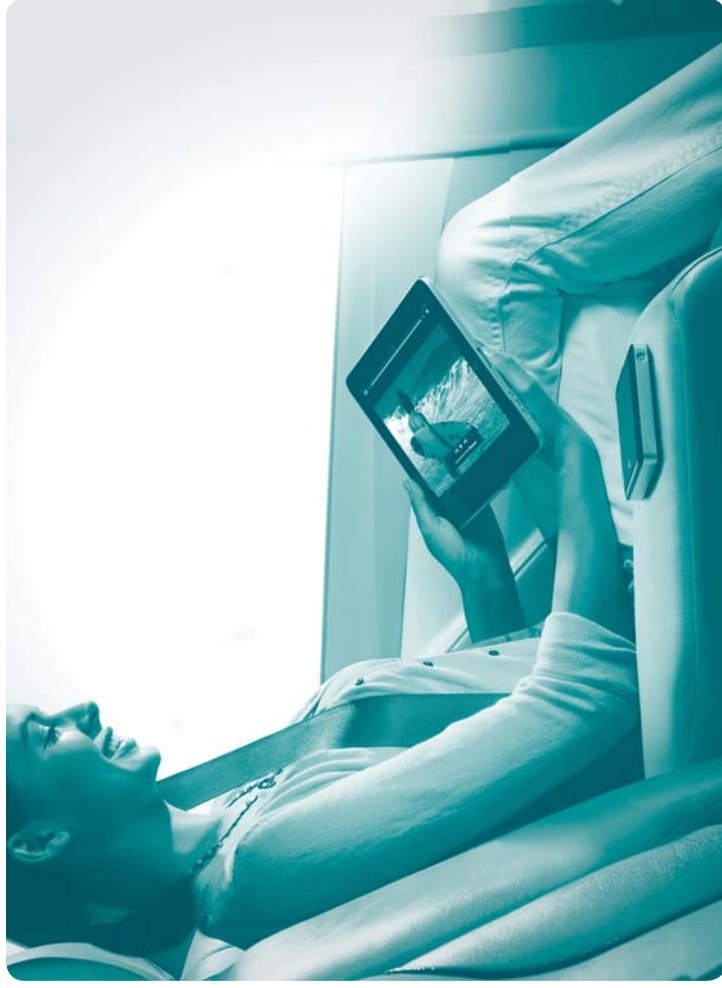
- Take your media library with you on the go
- Stream media with up to 3 Wi-Fi enabled devices at the same time
- Automatically sync media and documents from your PC or Mac computer
- Up to 5 hours battery life<sup>1</sup>

### Best-Fit Applications

- Store and carry movies and other media on the go.
- Share media with others.
- Works with iPad or Android tablet



CAPACITY*	KIT NUMBER*	INTERFACE	COLOR	OS
500GB	STBF500101	USB 3.0	● Black	PC, Mac
PRODUCT DIMENSIONS	4.72-in L x 3.54-in W x 0.87-in D (120mm x 90mm x 22mm)			
PACKAGE DIMENSIONS	6.30-in L x 6.69-in W x 2.13-in D (160mm x 170mm x 54mm)			





## BlackArmor® NAS 440/400

A complete, small-business-specific network storage solution designed to provide optimum uptime and data integrity for up to 50 workstations

### Key Advantages

- BlackArmor NAS 440 models include four drives to increase capacity and take advantage of RAID 5/10 options.
- BlackArmor NAS 400 model available without pre-installed drives for maximum flexibility.
- Designed for small business to provide optimum uptime and data integrity
- User-configurable RAID 0/1/5/10 and JBOD
- Continuous and automatic full-system backup for network connected workstations<sup>1</sup>
- Hot-swappable, user-serviceable drives — no tools required

### Best-Fit Applications

- Store and access files from a central, secure location.
- Access and manage files remotely.
- Back up 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.



CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
12TB	STAU12000100	Gigabit Ethernet	● Black	PC, Mac
8TB	ST380005SHA10G-RK	Gigabit Ethernet	● Black	PC, Mac
4TB	ST340005SHA10G-RK	Gigabit Ethernet	● Black	PC, Mac
—	STAR401	Gigabit Ethernet	Black	PC, Mac
<b>PRODUCT DIMENSIONS</b>		6.30-in W x 8.15-in H x 10.59-in D (160.00mm x 207.00mm x 269.00mm)		
<b>PACKAGE DIMENSIONS</b>		9.29-in W x 9.50-in H x 14.37-in D (236.00mm x 241.30mm x 365.00mm)		

## BlackArmor® NAS 220

A small-business-specific network attached storage solution designed for centralized storage and data backup for up to 20 PCs

### Key Advantages

- Automatic data mirroring with RAID 1
- Protect network-connected PCs with incremental and full-system, automatic backup.<sup>3</sup>
- Functions as FTP server for remote access
- Includes two reliable, user-replaceable drives
- Secure files with hardware-based encryption.

### Best-Fit Applications

- Central, secure file storage and access
- Access and manage files remotely.
- Share a printer with connected PCs and Macs.


















CAPACITY <sup>1</sup>	KIT NUMBER <sup>2</sup>	INTERFACE	COLOR	OS
6TB	STAW6000100	Gigabit Ethernet	● Black	PC, Mac
4TB	ST340005LSA10G-RK	Gigabit Ethernet	● Black	PC, Mac
2TB	ST320005LSA10G-RK	Gigabit Ethernet	● Black	PC, Mac
<b>PRODUCT DIMENSIONS</b>		4.09-in W x 7.79-in H x 7.40-in D (104.00mm x 197.80mm x 188.00mm)		
<b>PACKAGE DIMENSIONS</b>		10.90-in W x 6.13-in H x 11.00-in D (276.80mm x 153.70mm x 279.40mm)		



# Internal Storage

## At-a-Glance Product Comparison

	DESKTOP		ENTERPRISE				VIDEO STORAGE	
3.5-inch								
	Desktop HDD	Cheetah® 15K	Constellation® ES.3	Constellation ES.2	Enterprise Capacity 3.5 HDD	Enterprise Value	Surveillance HDD	Video 3.5 HDD
<b>BUSINESS NEED</b>	Mainstream	Performance	Mainstream	Mainstream	Mainstream	Low Power	Surveillance	DVR
<b>USE THIS DRIVE FOR</b>	Desktop compute where choice in capacity and cache options to provide design flexibility is important	High-capacity, compute-intensive requirements demanding high performance and availability	Bulk-data applications requiring reliable, highest-capacity storage, efficiency and enterprise-class reliability		Maximum-capacity enterprise servers and storage arrays requiring enterprise-class reliability	Cost-effective, low-power bulk storage solutions for unstructured data in clouds	Surveillance systems that require high performance, low-power, ruggedized and centralized storage for every surveillance application	DVR systems where reliable, low-power, purpose-built storage is required for video streaming applications
<b>ENCRYPTION MODELS AVAILABLE</b>		X	X	X	X			
<b>LEARN MORE</b>	Page 18	Page 29	Page 30	Page 31	Page 31	Page 32	Page 36	Page 36
2.5-inch								
	Laptop SSHD	Laptop HDD	Laptop Thin HDD	Enterprise Performance 15K HDD	Enterprise Performance 10K HDD	Enterprise Capacity 2.5 HDD	Enterprise SATA SSD	
<b>BUSINESS NEED</b>	Performance	Mainstream	Thin (7mm z-ht.)	Performance	Mainstream	Low Power	Mainstream	
<b>USE THIS DRIVE FOR</b>	The ultimate mobile computing experience, with SSD-like performance for all applications and OS environments	Laptop PCs where the lowest power consumption, silent acoustics and the highest quality is always expected	Slim computing devices such as thin laptops and notebooks, where z-height makes all the difference	Compute-intensive data requirements demanding the highest performance density and availability	Mainstream data requiring high capacity, performance density and reliability	Online reference data demands requiring cost-effective, low-power, enterprise-class drives	Enterprise environments requiring MLC-enabled, high-capacity SSD with data integrity and drive endurance	
<b>ENCRYPTION MODELS AVAILABLE</b>		X	X	X	X	X	X	
<b>LEARN MORE</b>	Page 22	Page 23	Page 24	Page 29	Page 28	Page 32	Page 33	

# Product Comparison



## Desktop Storage Solutions

Seagate has a distinguished history in consistently delivering innovative technologies, super-sized capacities, low power and blazing-fast performance. Seagate desktop drives offer excellent performance at all levels.

DESKTOP HDD	
Mainstream and Performance	
<b>Application</b>	Tuned performance for low-power, mainstream and high-performance desktop computing
<b>Description</b>	Mainstream
<b>Form Factor</b>	3.5 inch
<b>Performance</b>	7200 RPM
<b>Reliability (AFR)</b>	<1%
<b>Max. Ext. Transfer Rate</b>	600MB/s
<b>Capacity<sup>1</sup></b>	250GB to 3TB
<b>Interface</b>	SATA 6Gb/s
<b>Cache</b>	16MB to 64MB
<b>Power (Idle)</b>	4.60W 3.36W to 5.40W (idle2)

# Feature Comparison



MAINSTREAM AND PERFORMANCE	
Desktop HDD	
<b>Product</b>	Desktop HDD
<b>SATA Interface</b>	X
<b>Sustainable Technology</b>	X
<b>Best-in-Class Performance</b>	X
<b>Capacity Leadership</b>	X
<b>Quiet Acoustics</b>	
<b>DiscWizard™ Installation Software</b>	X
<b>Compatible with Windows 7<sup>2</sup></b>	X



<sup>1</sup> One gigabyte or GB, equals one billion bytes and one terabyte or TB, equals one trillion bytes when referring to drive capacity.  
<sup>2</sup> For a complete list of Seagate products that are compatible with Windows 7, visit: <http://www.microsoft.com/windows/compatibility/windows-7/en-us/Search.aspx?Type=Hardware&=Seagate>

## Desktop HDD

Seagate Desktop HDD drives give you the Power of One with 1TB-per-disk technology and one drive platform for every capacity and application.



### Key Advantages

- Up to 3TB capacity with 7200-RPM performance
- AcuTrac™ and OptiCache™ technologies deliver dependable overall performance.
- Seagate SmartAlign™ technology provides simple migration to Advanced Format 4K sectors.
- Free Seagate DiscWizard™ software

### Best-Fit Applications

- Desktop or all-in-one PCs and home servers
- PC-based gaming systems
- Desktop RAID
- Direct-attached external storage devices (DAS)
- Network-attached storage devices (NAS)

CAPACITY*	MODEL	INTERFACE	CACHE
3TB	ST3000DM001	SATA 6Gb/s NCQ	64MB
2TB	ST2000DM001	SATA 6Gb/s NCQ	64MB
1TB	ST1000DM003	SATA 6Gb/s NCQ	64MB
500GB	ST500DM002	SATA 6Gb/s NCQ	16MB
320GB	ST320DM000	SATA 6Gb/s NCQ	16MB
250GB	ST250DM000	SATA 6Gb/s NCQ	16MB



# The Power of ONE

Multiple Benefits. One Drive.

Superb Performance and Future-Ready Interface

Hassle-Free Advanced Format Integration

Solid Reliability and Data Integrity

=

# Barracuda®



The new generation drive gets a 46% performance boost to meet the rigorous demands of everyday computing needs, and more. Leading the way with breakthrough 1TB/disk technology, future-ready SATA 6G interface and massive capacities up to 3TB, Barracuda delivers easy migration to Advanced Format with Seagate SmartAlign™ and integrates seamlessly with your existing IT setup. Perfect for desktop, direct and network attached storage. Work smarter, play faster.

Seagate. Trust It.

[www.seagate.com](http://www.seagate.com)

\* One gigabyte of GB equals one billion bytes and one terabyte of TB equals one trillion bytes when referring to hard drive capacity. † U.S. model numbers shown.

## Product Comparison



Application	Extreme Performance	Mainstream	Slim Computing
<b>Description</b>	Solid state hybrid drives deliver SSD-like performance without sacrificing capacity	The best combination of capacity, mobility and durability in a laptop hard drive	The world's thinnest 2.5-inch drive for slim laptops and notebooks
<b>Form Factor</b>	2.5 inch	2.5 inch	7mm, 2.5 inch
<b>Performance</b>	7200 RPM	5400 RPM to 7200 RPM	5400 RPM to 7200 RPM
<b>Reliability (AFR)</b>	0.50%	0.48%	0.48%
<b>Max. Ext. Transfer Rate</b>	300MB/s to 600MB/s	300MB/s	300MB/s
<b>Capacity<sup>1</sup></b>	500GB to 750GB	250GB to 750GB	250GB and 300GB
<b>Interface</b>	SATA 3Gb/s, SATA 6Gb/s	SATA 3Gb/s	SATA 3Gb/s
<b>Cache</b>	32MB	8MB to 16MB	16MB
<b>Power (idle)</b>	0.8W to 1.1W	0.67W to 0.81W	0.45W to 0.66W

## Feature Comparison

Product	MAINSTREAM AND PERFORMANCE	EXTREME PERFORMANCE	MAINSTREAM	SLIM COMPUTING
Momentus 2.5-Inch Internal Kit				
<b>SATA Interface</b>	X	X	X	X
<b>Lowest Acoustics</b>			X	X
<b>Lowest Power</b>			X	X
<b>Self-Encrypting Drive</b>			X	X
<b>Drop Sensor Options</b>			X	
<b>Solid State Hybrid</b>	X	X		
<b>Compatible with Windows 7<sup>2</sup></b>	X	X	X	X

# Laptop Storage Solutions

Seagate laptop drives address every mobile market need, delivering superior performance, reliability and value. Feature-rich with innovative options, the Seagate laptop lineup also includes self-encryption and FIPS 140-2 validated models.





## Laptop SSHD

The Seagate Laptop SSHD solid state hybrid drive enables laptop PC users to enjoy solid state performance without sacrificing capacity.

### Key Advantages

- Boots and performs like an SSD<sup>1</sup>
- Up to 3x faster than a traditional HDD<sup>2</sup>
- SATA 6Gb/s with NCQ for interface speed
- All-in-one design for simplicity and ease of installation
- Works in any laptop or PC, any OS and any application
- Backed by a 3-year limited warranty

### Best-Fit Applications

- Laptops and mobile workstations
- Desktop and tower workstations
- High-performance laptop and desktop gaming systems
- Small form factor all-in-one PCs



CAPACITY <sup>1</sup>	MODEL	INTERFACE	CACHE
750GB	ST750LX003	SATA 6Gb/s	32MB
500GB	ST95005620AS	SATA 3Gb/s	32MB

## Laptop HDD

The Seagate Laptop HDD drive offers the world's most feature-rich 2.5-inch family of storage for laptops and external enclosures.

### Key Advantages

- Innovative options and features—the power to transform from ordinary to extraordinary
- 7200 RPM delivers a constant high-performance boost.
- 5400 RPM enables affordable, low-power and high-capacity drives for external enclosures.
- Self-Encrypting Drive options mitigate data breaches, comply with data protection regulations and preserve brand recognition.
- Self-Encrypting Drive options with FIPS 140-2 certification<sup>1</sup> are government-approved for the U.S. and Canadian governments.
- G-Force Protection™ technology can help keep your data recoverable after a fall, even if your laptop doesn't survive.
- Seagate Smartalign™ technology provides a transition to 4K sectors without the need for software utilities.

### Best-Fit Applications

- Mainstream and high-performance laptops
- External storage solutions, boxes
- Industrial applications requiring a small form factor



CAPACITY <sup>1</sup>	7200-RPM MODEL	INTERFACE	CACHE
750GB	ST9750420AS <sup>3</sup>	SATA 3Gb/s	16MB
500GB	ST9500423AS <sup>3</sup>	SATA 3Gb/s	16MB
500GB	ST9500420ASG <sup>3</sup>	SATA 3Gb/s	16MB
500GB	ST9500421AS <sup>3</sup>	SATA 3Gb/s	16MB
500GB	ST9500422AS <sup>3</sup>	SATA 3Gb/s	16MB
320GB	ST9320423AS	SATA 3Gb/s	16MB
320GB	ST320L1023 <sup>3,4</sup>	SATA 3Gb/s	16MB
250GB	ST9250410AS	SATA 3Gb/s	16MB
250GB	ST250L1021 <sup>3,4</sup>	SATA 3Gb/s	16MB
250GB	ST9250410ASG <sup>3</sup>	SATA 3Gb/s	16MB
250GB	ST9250411AS <sup>3</sup>	SATA 3Gb/s	16MB
250GB	ST9250412AS <sup>3,6</sup>	SATA 3Gb/s	16MB

CAPACITY <sup>1</sup>	5400-RPM MODEL	INTERFACE	CACHE
500GB	ST9500325AS	SATA 3Gb/s	8MB
500GB	ST9500325ASG <sup>3</sup>	SATA 3Gb/s	8MB
500GB	ST9500327AS <sup>3</sup>	SATA 3Gb/s	8MB
320GB	ST9320325AS	SATA 3Gb/s	8MB
320GB	ST320L1022 <sup>3,4</sup>	SATA 3Gb/s	16MB
250GB	ST9250315AS	SATA 3Gb/s	8MB
250GB	ST250L1020 <sup>3,4</sup>	SATA 3Gb/s	16MB
250GB	ST9250317AS <sup>3</sup>	SATA 3Gb/s	8MB

<sup>1</sup> One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.  
<sup>2</sup> Drive with G-Force Protection™ feature.  
<sup>3</sup> Advanced Format (4K) drive with SmartAlign™ technology resolves misalignment conditions.  
<sup>4</sup> Form factor height expanded to 3.0mm enables compatibility with standard laptop chassis.  
<sup>5</sup> See FIPS 140-2 Level 2 Certificate at <http://sec.nist.gov/groups/ST/comp/documents/140-17401vend.htm>.  
<sup>6</sup> Performance may vary depending on user's hardware configuration and operating system. Testing performed on a Momentus XT 750GB SSHD.

## Laptop Thin HDD

The 7mm, 2.5-inch drive enables slim computing for all types of mobile computing, from laptops to notebooks to smaller desktop PCs.

### Key Advantages

- 7mm z-height form factor enables thin chassis design for all segments of laptop computing.
- Seagate SmartAlign™ technology provides a transition to 4K sectors without the need for software utilities.
- Self-Encrypting Drive options mitigate data breaches, comply with data protection regulations and preserve brand recognition.
- Self-Encrypting Drive options with FIPS 140-2 certification<sup>3</sup> are government-approved for the U.S. and Canadian governments.

### Best-Fit Applications

- Thin entry-level laptop PCs
- Thin high-end notebooks
- Thin ultraportables
- Slim CE devices



CAPACITY <sup>1</sup>	7200-RPM MODEL	INTERFACE	CACHE
320GB	ST320LT007	SATA 3Gb/s	16MB
320GB	ST320LT014 <sup>2</sup>	SATA 3Gb/s	16MB
320GB	ST320LT009 <sup>2,3</sup>	SATA 3Gb/s	16MB
250GB	ST250LT007	SATA 3Gb/s	16MB
250GB	ST250LT014 <sup>2</sup>	SATA 3Gb/s	16MB
250GB	ST250LT009 <sup>2,3</sup>	SATA 3Gb/s	16MB

CAPACITY <sup>1</sup>	5400-RPM MODEL	INTERFACE	CACHE
500GB	ST500LT025 <sup>2,4</sup>	SATA 3Gb/s	16MB
500GB	ST500LT015 <sup>2,4</sup>	SATA 3Gb/s	16MB
500GB	ST500LT012	SATA 3Gb/s	16MB
320GB	ST320LT020	SATA 3Gb/s	16MB
320GB	ST320LT012 <sup>2</sup>	SATA 3Gb/s	16MB
250GB	ST250LT003	SATA 3Gb/s	16MB
250GB	ST250LT012 <sup>2</sup>	SATA 3Gb/s	16MB



# Hyper happens.

Break performance barriers with revolutionary hybrid disk technology. Solid-state performance meets massive disk-drive capacity.

## Laptop SSHD



### Solid State Hybrid Drive

- Available in 750GB<sup>1</sup> or 500GB<sup>1</sup>
- Powered by Seagate Adaptive Memory™ technology to boot up and perform like an SSD<sup>2</sup>
- Up to three times faster than a traditional HDD<sup>2</sup>
- Works with any standard laptop and major OS



Storage for Life



<sup>1</sup> One gigabyte or GB equals one billion bytes and one terabyte or TB equals one trillion bytes, when referring to hard drive capacity.  
<sup>2</sup> U.S. model numbers shown.

# Product Comparison



	SAWIIO®	CHEETAH®	ENTERPRISE CAPACITY 2.5 HDD	ENTERPRISE SSD
<b>Application</b>	SFF Performance and Mainstream	LFF Performance	High Capacity and Low Power	Mainstream SSD
<b>Description</b>	Highest-performing, highly reliable 15K- and 10K-RPM enterprise hard drives in a 2.5-inch form factor	Highest-performing, highly reliable 15K-RPM enterprise hard drives in a 3.5-inch form factor	High-capacity, lowest-power, reliable 7200-RPM enterprise hard drive in both 2.5- and 3.5-inch form factors	Performance, data integrity and drive endurance in an enterprise solid state drive
<b>Form Factor</b>	2.5-inch	3.5-inch	2.5-inch and 3.5-inch	2.5-inch
<b>Performance</b>	15K RPM and 10K RPM	15K RPM	7200 RPM	MLC and SLC
<b>Reliability (AFR)</b>	0.44%	0.55%	0.62% and 1.1%	0.44%
<b>Capacity¹</b>	300GB to 900GB	300GB to 600GB	250GB to 3TB	100GB to 800GB
<b>Power (Idle)</b>	3.0W to 4.4W	8.74W to 11.68W	2.52W to 7.7W	3.47W to 5.92W
<b>Interface</b>	6Gb/s SAS, 4Gb/s FC	6Gb/s SAS, 4Gb/s FC	6Gb/s SAS, SATA 6Gb/s	6Gb/s SAS, SATA 6Gb/s
<b>Limited Warranty²</b>	5 years	5 years	3 years and 5 years	5 years

# Feature Comparison



Product	2.5-Inch Mission Critical	Enterprise Performance 15K HDD	3.5-Inch Mission Critical	Enterprise Capacity 2.5 HDD	3.5-Inch Nearline	Enterprise Capacity 3.5 HDD	Enterprise Value	Mainstream SSD
<b>Best-in-Class Performance</b>	X	X	X	X	X	X	X	X
<b>Capacity Leadership</b>	X	X	X	X	X	X	X	X
<b>Vibration Tolerance for Multi-Drive Stabilization</b>	X	X	X	X	X	X	X	X
<b>6Gb/s SAS Interface</b>	X	X	X	X	X	X	X	X
<b>4Gb/s FC Interface</b>	X	X	X	X	X	X	X	X
<b>6Gb/s SATA Interface</b>	X	X	X	X	X	X	X	X
<b>Best-in-Class Power Usage</b>	X	X	X	X	X	X	X	X
<b>PowerChoice™ Optimized Idle Power Settings</b>	X	X	X	X	X	X	X	X
<b>Self-Encrypting Drive (SED)²</b>	X	X	X	X	X	X	X	X
<b>FIPS 140-2 SED²,³</b>	X	X	X	X	X	X	X	X

¹ One gigabyte or GB, equals one billion bytes and one terabyte or TB, equals one trillion bytes when referring to drive capacity.  
 ² Self-Encrypting Drive models may require BIOS-compliant host or controller support.  
 ³ See FIPS 140-2, Level 2, Core Effects at <http://csrc.nist.gov/groups/ST/Workshop/documents/F140-1740/reqd.htm>.  
 ⁴ Warranty terms may vary based on usage. Consult your Seagate sales representative for warranty terms and conditions.

# Enterprise Storage Solutions

Seagate has the enterprise storage expertise as well as the global presence, processes and resources to consistently support small or medium businesses and run a large data center with the industry's highest-quality enterprise storage products, including FIPS 140-2 validated models.



# Enterprise Performance 10K HDD

Seagate Enterprise Performance 10K HDD drives deliver the optimal balance of capacity, performance and power in a 10K-RPM, 2.5-inch enterprise drive.

### Key Advantages

- Highest-capacity enterprise SFF hard drive (up to 900GB)
- PowerChoice™ technology reduces power consumption.
- First SFF 10K-RPM drive to support 4Gb/s FC
- Protection Information (PI) option detects corruption of data in flight between the host system and the drive<sup>6</sup>
- Self-Encrypting Drive (SED)<sup>2</sup> and FIPS 140-2 certified SED<sup>3</sup> cut IT drive retirement costs and protect data. FIPS options meet government encryption compliance standards.

### Best-Fit Applications

- Mission-critical servers and external storage arrays
- Power- and space-constrained data centers
- Compliance or data security initiatives



CAPACITY <sup>1</sup>	MODEL	INTERFACE	CACHE
900GB	ST900MM026 <sup>2</sup>	6Gb/s SAS	64MB
900GB	ST900MM038 <sup>2,4</sup>	6Gb/s SAS	64MB
900GB	ST9900055S	6Gb/s SAS	64MB
900GB	ST9900705SS <sup>2</sup>	6Gb/s SAS	64MB
900GB	ST9900605SS <sup>2,3</sup>	6Gb/s SAS	64MB
900GB	ST9900805FC	4Gb/s FC	64MB
600GB	ST600MM026 <sup>2</sup>	6Gb/s SAS	64MB
600GB	ST9600205SS	6Gb/s SAS	64MB
600GB	ST9600105SS <sup>2</sup>	6Gb/s SAS	64MB
600GB	ST9600055SS <sup>2,3</sup>	6Gb/s SAS	64MB
600GB	ST9600205FC	4Gb/s FC	64MB
450GB	ST450MM026 <sup>2</sup>	6Gb/s SAS	64MB
450GB	ST9450405SS	6Gb/s SAS	64MB
450GB	ST9450305SS <sup>2</sup>	6Gb/s SAS	64MB
450GB	ST9450205SS <sup>2,3</sup>	6Gb/s SAS	64MB
450GB	ST9450405FC	4Gb/s FC	64MB
300GB	ST300MM026 <sup>2</sup>	6Gb/s SAS	64MB
300GB	ST9300605SS	6Gb/s SAS	64MB
300GB	ST9300505SS <sup>2</sup>	6Gb/s SAS	64MB
300GB	ST9300405SS <sup>2,3</sup>	6Gb/s SAS	64MB
300GB	ST9300605FC	4Gb/s FC	64MB

# Enterprise Performance 15K HDD

The 2.5-inch Seagate Enterprise Performance 15K HDD hard drive provides the world's highest performance and reliability while delivering ultra-low power consumption.

### Key Advantages

- Stores twice the amount of Tier 1 data without increasing drive count
- Enables Tier 1 applications to process transactions more quickly
- Reduces system complexity and operating costs
- Self-Encrypting Drive (SED)<sup>2</sup> and FIPS 140-2 certified SED<sup>3</sup> cut IT drive retirement costs and protect data. FIPS options meet government encryption compliance standards.

### Best-Fit Applications

- High-performance enterprise servers and storage arrays
- Transaction-intensive database applications
- Blade, rack and tower servers
- Security compliance-driven IT organizations



CAPACITY <sup>1</sup>	MODEL	INTERFACE	CACHE
300GB	ST9300653SS	6Gb/s SAS	64MB
300GB	ST9300653SS <sup>2</sup>	6Gb/s SAS	64MB
300GB	ST9300463SS <sup>2,3</sup>	6Gb/s SAS	64MB
146GB	ST9146653SS	6Gb/s SAS	64MB
146GB	ST9146753SS <sup>2</sup>	6Gb/s SAS	64MB
146GB	ST9146653SS <sup>2,3</sup>	6Gb/s SAS	64MB
146GB	ST9146852SS	6Gb/s SAS	16MB
146GB	ST9146752SS <sup>2</sup>	6Gb/s SAS	16MB
146GB	ST9146652SS <sup>2,3</sup>	6Gb/s SAS	16MB
73GB	ST973452SS	6Gb/s SAS	16MB
73GB	ST973352SS <sup>2</sup>	6Gb/s SAS	16MB
73GB	ST973252SS <sup>2,3</sup>	6Gb/s SAS	16MB

# Cheetah® 15K

The Seagate Cheetah 15K drive provides the highest capacity, performance and reliability in 3.5-inch mission-critical storage.

### Key Advantages

- Third-generation perpendicular recording
- Sustained data rate of up to 204MB/s
- Industry's highest 3.5-inch drive reliability
- Powertrim™ technology optimizes power consumption
- Self-Encrypting Drive (SED)<sup>2</sup> and FIPS 140-2 certified SED<sup>3</sup> cut IT drive retirement costs and protect data. FIPS options meet government encryption compliance standards.

### Best-Fit Applications

- Business and transaction processing
- Email and decision support
- Storage Area Networks (SAN)
- Network Attached Storage (NAS)
- Internet and e-commerce



CAPACITY <sup>1</sup>	MODEL	INTERFACE	CACHE
600GB	ST3600057SS	6Gb/s SAS	16MB
600GB	ST3600057SS <sup>2</sup>	6Gb/s SAS	16MB
600GB	ST36000857SS <sup>2,3</sup>	6Gb/s SAS	16MB
600GB	ST36000057FC	4Gb/s FC	16MB
450GB	ST34500857SS	6Gb/s SAS	16MB
450GB	ST3450757SS <sup>2</sup>	6Gb/s SAS	16MB
450GB	ST3450657SS <sup>2,3</sup>	6Gb/s SAS	16MB
450GB	ST34508057FC	4Gb/s FC	16MB
300GB	ST3300657SS	6Gb/s SAS	16MB
300GB	ST3300657SS <sup>2</sup>	6Gb/s SAS	16MB
300GB	ST3300457SS <sup>2,3</sup>	6Gb/s SAS	16MB
300GB	ST3300657FC	4Gb/s FC	16MB

<sup>1</sup> One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.  
<sup>2</sup> Self-Encrypting Drive (SED) is a feature of certain hard drives that encrypts data at the drive level.  
<sup>3</sup> See FIPS 140-2, Certificate at <http://csrc.nist.gov/groups/ST/workshop/documents/140-111401vend.htm>.  
<sup>4</sup> See FIPS 140-2, Certificate at <http://csrc.nist.gov/groups/ST/workshop/documents/140-111401vend.htm>.  
<sup>5</sup> FIPS 140-2, in review. See FIPS 140-2, Level 2 Certificate at <http://csrc.nist.gov/groups/ST/workshop/documents/140-111401vend.htm>.  
<sup>6</sup> Protection Information (PI) feature requires PI-compliant host or controller support.



# Enterprise Capacity 3.5 HDD .2

The Seagate Enterprise Capacity 3.5 HDD drive offers the highest capacities with nearline performance, enterprise-class reliability, high data integrity and data security.

### Key Advantages

- Highest-capacity enterprise drive for demanding data growth
- SAS and SATA drives designed for 24x7 reliability
- Best-in-class enhanced rotational vibration tolerance
- Self-Encrypting Drive (SED)<sup>2</sup> and FIPS 140-2 certified SED<sup>3</sup> cut IT drive retirement costs and protect data. FIPS options meet government encryption compliance standards.

### Best-Fit Applications

- High-capacity bulk-data storage
- Mainstream enterprise external storage arrays
- Enterprise backup and restore—D2D, virtual tape
- Centralized surveillance
- Cloud storage



CAPACITY <sup>1</sup>	MODEL	INTERFACE	CACHE
3TB	ST33000650NS	SATA 6Gb/s	64MB
3TB	ST33000651NS <sup>2</sup>	SATA 6Gb/s	64MB
3TB	ST33000652NS <sup>2,3</sup>	SATA 6Gb/s	64MB
3TB	ST33000650SS	6Gb/s SAS	64MB
3TB	ST33000651SS <sup>2</sup>	6Gb/s SAS	64MB
3TB	ST33000652SS <sup>2,3</sup>	6Gb/s SAS	64MB
2TB	ST32000645NS	SATA 6Gb/s	64MB
2TB	ST32000646NS <sup>2</sup>	SATA 6Gb/s	64MB
2TB	ST32000647NS <sup>2,3</sup>	SATA 6Gb/s	64MB
2TB	ST32000645SS	6Gb/s SAS	64MB
2TB	ST32000646SS <sup>2</sup>	6Gb/s SAS	64MB
2TB	ST32000647SS <sup>2,3</sup>	6Gb/s SAS	64MB

# Enterprise Capacity 3.5 HDD

Seagate Enterprise Capacity 3.5 HDD 3.5-inch hard drives offer the highest capacity at 2TB while providing enterprise robustness for seamless enterprise integration.

### Key Advantages

- Enterprise nearline drive designed for 24x7 operation
- Best-in-class rotational vibration tolerance
- Multi-drive firmware maximizes system availability.
- Optimal power savings with PowerChoice™ technology
- Self-Encrypting Drive (SED)<sup>2</sup> and FIPS 140-2 certified SED<sup>3</sup> cut IT drive retirement costs and protect data.
- FIPS options meet government encryption compliance standards.

### Best-Fit Applications

- High-capacity data center storage
- Mainstream enterprise external storage arrays
- Enterprise backup and restore
- Cloud storage



CAPACITY <sup>1</sup>	MODEL	INTERFACE	CACHE
2TB	ST2000MM0011	SATA 6Gb/s	64MB
2TB	ST2000MM0031 <sup>2</sup>	SATA 6Gb/s	64MB
2TB	ST2000MM0051 <sup>2,3</sup>	SATA 6Gb/s	64MB
2TB	ST2000MM0001	6Gb/s SAS	64MB
2TB	ST2000MM0021 <sup>2</sup>	6Gb/s SAS	64MB
2TB	ST2000MM0041 <sup>2,3</sup>	6Gb/s SAS	64MB
1TB	ST1000MM0011	SATA 6Gb/s	64MB
1TB	ST1000MM0031 <sup>2</sup>	SATA 6Gb/s	64MB
1TB	ST1000MM0051 <sup>2,3</sup>	SATA 6Gb/s	64MB
1TB	ST1000MM0001	6Gb/s SAS	64MB
1TB	ST1000MM0021 <sup>2</sup>	6Gb/s SAS	64MB
1TB	ST1000MM0041 <sup>2,3</sup>	6Gb/s SAS	64MB
500GB	ST500MM0011	SATA 6Gb/s	64MB
500GB	ST500MM0031 <sup>2</sup>	SATA 6Gb/s	64MB
500GB	ST500MM0051 <sup>2,3</sup>	SATA 6Gb/s	64MB
500GB	ST500MM0001	6Gb/s SAS	64MB
500GB	ST500MM0021 <sup>2</sup>	6Gb/s SAS	64MB
500GB	ST500MM0041 <sup>2,3</sup>	6Gb/s SAS	64MB

# Enterprise Capacity 3.5 HDD .3

The Seagate Enterprise Capacity 3.5 HDD helps data centers meet the demanding growth of unstructured data.

### Key Advantages

- Highest-capacity enterprise drive for maximum density server and storage solutions
- SAS and SATA interfaces with 24x7 reliability
- Predictable 7200-RPM performance even in the most rugged multi-drive environments
- Improved power and cooling efficiencies with low power consumption and on-demand PowerChoice™ technology
- Protect your data and ease data disposal costs and management with the SED FIPS 140-2 option.<sup>4,5</sup>

### Best-Fit Applications

- High-capacity RAID storage
- Mainstream enterprise external storage (SAN, NAS, DAS)
- Cloud bulk data storage
- Enterprise backup and restore—D2D, virtual tape
- Centralized surveillance



CAPACITY <sup>1</sup>	MODEL	INTERFACE	CACHE
4TB	ST4000MM0033	SATA 6Gb/s	128MB
4TB	ST4000MM0053 <sup>4</sup>	SATA 6Gb/s	128MB
4TB	ST4000MM0023	6Gb/s SAS	128MB
4TB	ST4000MM0043 <sup>4</sup>	6Gb/s SAS	128MB
4TB	ST4000MM0063 <sup>4,5</sup>	6Gb/s SAS	128MB
3TB	ST3000MM0033	SATA 6Gb/s	128MB
3TB	ST3000MM0053 <sup>4</sup>	SATA 6Gb/s	128MB
3TB	ST3000MM0023	6Gb/s SAS	128MB
3TB	ST3000MM0043 <sup>4</sup>	6Gb/s SAS	128MB
3TB	ST3000MM0063 <sup>4,5</sup>	6Gb/s SAS	128MB
2TB	ST2000MM0033	SATA 6Gb/s	128MB
2TB	ST2000MM0053 <sup>4</sup>	SATA 6Gb/s	128MB
2TB	ST2000MM0023	6Gb/s SAS	128MB
2TB	ST2000MM0043 <sup>4</sup>	6Gb/s SAS	128MB
2TB	ST2000MM0063 <sup>4,5</sup>	6Gb/s SAS	128MB
1TB	ST1000MM0033	SATA 6Gb/s	128MB
1TB	ST1000MM0053 <sup>4</sup>	SATA 6Gb/s	128MB
1TB	ST1000MM0023	6Gb/s SAS	128MB
1TB	ST1000MM0043 <sup>4</sup>	6Gb/s SAS	128MB
1TB	ST1000MM0063 <sup>4,5</sup>	6Gb/s SAS	128MB

<sup>1</sup> One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.  
<sup>2</sup> Seagate Instant Secure Erase Models  
<sup>3</sup> DMR Cache  
<sup>4</sup> Self-Encrypting Drive (SED) and FIPS 140-2 validated drives are not available in all models or countries. May require TDC-compliant host or controller support.  
<sup>5</sup> FIPS 140-2 in review. See FIPS 140-2 Certificate at <http://seagate.com/secure3TB/documents/140-1740-04/0311.html> ES5  
<sup>6</sup> Based on maximum use of multiple 3.5-inch HDDs in standard 40U 19-inch rack.

## Enterprise Value

The Seagate Enterprise Value hard drive is designed for vast amounts of unstructured data in the cloud..

### Key Advantages

- Affordable storage for 24x7 cloud data center replicated environments
- High vibration tolerance for reliable performance
- Save on power and cooling costs with the lowest 3.5-inch enterprise drive operating power.
- Advanced format: logical block management
- Lower TCO with Seagate Instant Secure Erase
- Maximize your cloud storage with up to 114TB per square foot.<sup>6</sup>

### Best-Fit Applications

- Cloud storage servers and arrays
- Cloud backup storage
- Direct-attached external storage devices (DAS)
- Network-attached storage devices (NAS)



CAPACITY*	MODEL	INTERFACE	CACHE
3TB	ST3000NC002	SATA 6Gb/s	64MB <sup>1</sup>
3TB	ST3000NC002 <sup>2</sup>	SATA 6Gb/s	64MB <sup>1</sup>
2TB	ST2000NC001	SATA 6Gb/s	64MB <sup>1</sup>
2TB	ST2000NC002 <sup>2</sup>	SATA 6Gb/s	64MB <sup>1</sup>
1TB	ST1000NC001	SATA 6Gb/s	64MB <sup>1</sup>
1TB	ST1000NC002 <sup>2</sup>	SATA 6Gb/s	64MB <sup>1</sup>

## Enterprise Capacity 2.5 HDD .2

The Seagate Enterprise Capacity 2.5 HDD drive is the only 2.5-inch enterprise-class hard drive delivering both 1TB capacities and enterprise reliability.

### Key Advantages

- Maximizes data center footprint with up to 76TB/sq.ft.
- Energy-efficient storage at under 3.9W (idle)
- Highest nearline reliability with an MTBF of 1.4M hours
- Self-Encrypting Drive (SED)<sup>2</sup> and FIPS 140-2 certified SED<sup>3</sup> cut IT drive retirement costs and protect data.
- FIPS options meet government encryption compliance standards.

### Best-Fit Applications

- Storage-hungry business applications
- Storage area networks and network attached storage
- Maximum-capacity servers and blade servers
- Rich media content storage
- Enterprise backup and restore—D2D, virtual tape
- Cloud computing



CAPACITY*	MODEL	INTERFACE	CACHE
1TB	ST9100640NS	SATA 6Gb/s	64MB
1TB	ST9100641NS <sup>2</sup>	SATA 6Gb/s	64MB
1TB	ST9100642NS <sup>2,3</sup>	SATA 6Gb/s	64MB
1TB	ST9100640SS	6Gb/s SAS	64MB
1TB	ST9100641SS <sup>2</sup>	6Gb/s SAS	64MB
1TB	ST9100642SS <sup>2,3</sup>	6Gb/s SAS	64MB
500GB	ST9500620NS	SATA 6Gb/s	64MB
500GB	ST9500621NS <sup>2</sup>	SATA 6Gb/s	64MB
500GB	ST9500622NS <sup>2,3</sup>	SATA 6Gb/s	64MB
500GB	ST9500620SS	6Gb/s SAS	64MB
500GB	ST9500621SS <sup>2</sup>	6Gb/s SAS	64MB
500GB	ST9500622SS <sup>2,3</sup>	6Gb/s SAS	64MB
250GB	ST9250610NS	SATA 6Gb/s	64MB
250GB	ST9250611NS <sup>2</sup>	SATA 6Gb/s	64MB
250GB	ST9250612NS <sup>2,3</sup>	SATA 6Gb/s	64MB



## Enterprise SATA SSD

The Seagate Enterprise SATA SSD drive delivers the price-performance, data integrity and endurance benefits for performance-hungry enterprise applications.

### Key Advantages

- Best-in-class MLC endurance (up to 10 full drive writes/day)
- Price-performance and reliability benefits
- Protects against unintended data change or loss—ensuring data integrity
- Provides the same feature set to look, feel and act like an enterprise hard drive—reducing system complexity and operating costs

### Best-Fit Applications

- Tier 0, performance-hungry enterprise applications—virtualization, OLTP, data warehousing and cloud computing
- Blade servers, general servers and direct-attached storage
- Enterprise architectures using auto-tiering



CAPACITY*	MODEL	INTERFACE	FULL DRIVE WRITES/DAY <sup>4</sup>
800GB	ST800FM002	6Gb/s SAS	10
800GB	ST800FM002 <sup>2</sup>	6Gb/s SAS	10
400GB	ST400FM002	6Gb/s SAS	10
400GB	ST400FM002	SATA 6Gb/s	10
200GB	ST200FM002	6Gb/s SAS	10
200GB	ST200FM002	SATA 6Gb/s	10
100GB	ST100FM002	6Gb/s SAS	10
100GB	ST100FM002	SATA 6Gb/s	10

<sup>1</sup> One gigabyte or GB, equals one billion bytes, and one terabyte or TB, equals one trillion bytes when referring to drive capacity.  
<sup>2</sup> Self-Encrypting drive models may require a TOS-compliant host or controller support.  
<sup>3</sup> See FIPS 140-2 Level 2 Core Flavors at <http://csrc.nist.gov/groups/STTK/documents/f140-111801vend.htm>.  
<sup>4</sup> Data provided is based on format at 512 bytes.

# Seagate Specialty

Storage solutions for DVRs and surveillance systems

Seagate has the global presence to provide the supply and support for CE integrators as well as a complete business and technology partnership for the video storage market.

## Product Comparison



	Video 3.5 HDD	Surveillance HDD
<b>Application</b>	Mainstream CE-DVR	Video Surveillance
<b>Description</b>	Cool, quiet, low-power performance—perfect for high-definition consumer DVR applications	Optimized performance, power savings and improved reliability for video surveillance applications
<b>Form Factor</b>	3.5-inch	3.5-inch
<b>Performance</b>	Multi-room video delivery of at least ten simultaneous HD streams	7200 RPM
<b>Reliability (AFR)</b>	0.55%	<1%
<b>Max. Ext. Transfer Rate</b>	300MB/s to 600MB/s	600MB/s
<b>Capacity<sup>1</sup></b>	250GB to 2TB	1TB to 3TB
<b>Interface</b>	SATA 3Gb/s, SATA 6Gb/s	SATA 6Gb/s
<b>Cache</b>	8MB to 64MB	64MB
<b>Power (Idle)</b>	2.5W to 4.5W	3.36W to 5.4W (idle2)

## Feature Comparison



	3.5-Inch CE-DVR	Video Surveillance
<b>Application</b>	Video 3.5 HDD	Surveillance HDD
<b>SATA Interface</b>	X	X
<b>Low Power</b>	X	
<b>Quiet Acoustics</b>	X	
<b>Cool Operation</b>	X	X
<b>Sustainable Technology</b>	X	
<b>Best-in-Class Performance</b>	X	X
<b>Capacity Leadership</b>	X	
<b>24x7 Operation Capable</b>	X	X
<b>Extremely Low Vibration</b>		X



## Video 3.5 HDD

Seagate Video 3.5 HD drives deliver unprecedented levels of acoustic, power and vibration performance with room for hundreds of your favorite movies.

### Key Advantages

- Virtually silent streaming performance as low as 19dB
- 75°C, 24-hour operation capable
- Operational power consumption as low as 3.4W
- 2.0A spin-up current limited

### Best-Fit Applications

- Consumer digital video recorders
- Media servers and centers
- Home theater PCs and servers
- Cable, satellite and IPTV set-top boxes



CAPACITY*	MODEL	INTERFACE	CACHE
3TB	ST2000VM003	SATA 3Gb/s	64MB
1TB	ST1000VM002	SATA 3Gb/s	64MB
500GB	ST3500312CS	SATA 3Gb/s	8MB
320GB	ST3320311CS	SATA 3Gb/s	8MB
250GB	ST3250312CS	SATA 3Gb/s	8MB

## Surveillance HDD

The Seagate Surveillance HDD series drives optimize performance, save power and improve reliability for video surveillance applications.

### Key Advantages

- Higher areal density for cost-effective DVR applications
- Performance-tuned for seamless video applications
- Enterprise-class reliability for 24x7 video surveillance applications
- Built-in error recovery for non-stop streaming

### Best-Fit Applications

- Video surveillance digital video recorder
- Video surveillance network digital video recorder
- Direct-attached JBOD video surveillance storage
- Network-attached JBOD video storage



CAPACITY*	MODEL	INTERFACE	CACHE
3TB	ST3000VX000	SATA 6Gb/s	64MB
2TB	ST2000VX000	SATA 6Gb/s	64MB
1TB	ST1000VX000	SATA 6Gb/s	64MB

## Partner Resources and Benefits

The Seagate Partner Program (SPP) provides access to unique resources and benefits to help channel partners secure new opportunities and grow revenue and profitability.

As a registered SPP member, you enjoy the following exclusive features:

- Password-protected portal
- E-newsletter and regular news updates
- New product evaluation unit program
- Training and sales tools
- Priority support

Start reaping the rewards of SPP membership—register today at [www.seagate.com/partners](http://www.seagate.com/partners)

- Complete the online form.
- Click through and accept our standard agreement.

## Service and Support

For information regarding products and services, visit [www.seagate.com/about/contact-us/technical-support](http://www.seagate.com/about/contact-us/technical-support)

Available services include:

- Presales and Technical Support
- Global Support Services telephone numbers and business hours
- Authorized Seagate Service Centers

For information regarding Warranty Support, visit [www.seagate.com/support/warranty-and-returns](http://www.seagate.com/support/warranty-and-returns)

For information regarding Data Recovery Services, visit [services.seagate.com](http://services.seagate.com)

For Seagate OEM and Distribution partner portal, visit [www.seagate.com/partners](http://www.seagate.com/partners)

For Seagate reseller portal, visit [www.seagate.com/partners](http://www.seagate.com/partners)