

### Overview

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## Models

HP 500GB SATA 6G 2.5 (8GB Cache) SSHD Drive

E1C62AA

## Introduction

Get the responsiveness of solid state memory and the capacity of a hard drive in a highly affordable package with the HP SATA solid state hybrid drive (SSHD), which delivers fast boot-up, shut down, and application loading.

## Benefits

- Enjoy 8 GB of solid state memory and 500 GB of hard drive capacity in a compact, hybrid drive design that delivers a faster boot-up and enhanced application performance compared to a conventional hard disk drive.
- Enjoy super-fast access to the files you use most with Adaptive Memory™ technology, which copies frequently-used data stored on the hard drive to solid state memory for faster loading.

### HP Drive Lock

Solid State Hybrid Drives (SSHD) offer enhanced security via a new Drive Lock. When enabled, this ATA security feature set prevents software access to user data on the drive until one or two user-defined passwords are provided.

### SMART IV technology

Self-Monitoring Analysis and Reporting Technology (SMART) hard drive technology allows hard drives to monitor their own health and to raise flags if imminent failures are predicted. If the drive determines that a failure is imminent, the SMART hard drive technology enables the intelligent manageability or management software to generate a fault alert. While the current versions of SMART hard drives do a good job monitoring the data on the hard drive media, the ever increasing emphasis on reliability and quality has promoted HP to implement SMART IV technology which constantly checks that the data flow from host interface to media and media to host interface is not compromised. This is accomplished by inserting a 2 byte parity code into every 512 byte block in the data path of the hard drive's Cache RAM. This unique parity checking performed by HP's SMART IV technology hard drives, allows for more complete error detection coverage encompassing the entire data path between the host and the hard drive.

Smart IV is also known as IOEDC: I/O Error Detection Code.

### Native Command Queuing

NCQ or Native Command Queuing, is a SATA protocol extension that allows the hard drive to have several write or read commands outstanding at the same time. In contrast, normal non-queued operation requires each command to be completed before the next command is issued by the host system. Queuing allows the drive to complete the commands in the order that allows for best overall throughput. It also involves an advanced method of transferring data to or from the host, called First Party Direct Memory Access (FPDMA) that allows the hard drive and the host controller to manage the data transfers for multiple outstanding commands, without involving the host processor. NCQ can contribute to better performance but the results are dependent on many factors, including the access patterns of the various applications and operating system functions that are initiating drive accesses. Enabling NCQ features in the hard drive requires AHCI support from the host system BIOS, controller, and driver. AHCI support is typically implemented in RAID configurations.

**NOTE:** GB = 1 billion bytes. Actual available capacity is less.

## Performance

HP Solid State Hybrid Drives offer high instantaneous (burst) data-transfer rates (up to 6Gb/s) on platforms with 6Gb/s capable host chipsets.

### Overview

#### Compatibility

HP 500GB SATA 6G 2.5 (8GB Cache) SSHD Drive are compatible with HP ProDesk 600 G1 Tower, HP ProDesk 600 G1 SFF, HP ProOne 600 G1 AiO, HP EliteDesk 800 G1 Tower, HP EliteDesk 800 G1 SFF, HP EliteDesk 800 G1 USDT, HP EliteOne 800 G1 AiO, HP Compaq 6305 Pro MT, HP Compaq 6305 Pro SFF.

**NOTE:** Please check this product's web page on [HP.com](#) for current compatibility information.

**NOTE:** Not all hard drive models are available in all regions.

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Operating Systems supported: Windows 8 Pro, Windows 8, Windows 7 Home Basic\*, Windows 7 Home Premium\*, Windows 7 Professional Edition 32\*, Windows 7 Professional Edition 64\*, Windows 7 Ultimate Edition 32\*, Windows 7 Ultimate Edition 64\*, Windows Vista Business 64†, Windows Vista Business 32†, Windows Vista Home Basic 32†, Windows 2000, Windows XP Professional or Windows XP Home 32. No driver is required for this device. Native support is provided by the operating system.

\*This system may require upgraded and/or separately purchased hardware and/or a DVD drive to install the Windows 7 software and take full advantage of Windows 7 functionality. See <http://www.microsoft.com/windows/windows-7/> for details.

† Certain Windows Vista product features require advanced or additional hardware. Windows Vista Upgrade Advisor can help you determine which features of Windows Vista will run on your computer. To download the tool, visit: <http://www.windowsvista.com/upgradeadvisor>. For Windows Vista system requirements, visit: <http://www.windowsvista.com/systemrequirements>.

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#### Service and Support

Your Option Limited Warranty is a one (1) year (HP Option Limited Warranty Period) parts replacement warranty on any HP-branded or Compaq-branded options (HP Options). If your HP Option is installed in an HP Hardware Product, HP may provide warranty service either for the HP Option Limited Warranty Period or the remaining Limited Warranty Period of the HP Hardware Product in which the HP Option is being installed, whichever period is the longer but not to exceed three (3) years from the date you purchased the HP Option.

### Technical Specifications

<b>500 GB</b> (QK554AA)	<b>Formatted Capacity</b>	500 GB <sup>1</sup>	
	<b>Height</b>	6.8 +/- 0.2 mm (0.370 +/- .008 in)	
	<b>Width</b>	69.85 +/- 0.25 mm (2.750 +/- 0.010 in)	
	<b>Length</b>	100.35 +0.20 / -0.25 mm (3.951 +0.008 / -0.010 in)	
	<b>Weight</b>	95 g (0.209 lb)	
	<b>Interface</b>	Serial ATA	
	<b>Synchronous Transfer Rate (Maximum)</b>	Up to 6 Gb/s	
	<b>Cache Buffer</b>	64 MB (64,768 KB)	
	<b>Seek Time<sup>2</sup></b>	The specifications in the table below are defined as follows: Track-to-track seek time is an average of all possible single-track seeks in both directions. Average seek time is a true statistical random average of at least 5000 measurements of seeks between random tracks, less overhead.	
	Seek measurements are taken with nominal power at 25°C ambient temperature. All times are measured using drive diagnostics.	<b>Single Track</b>	2 ms
		<b>Average</b>	12 ms
		<b>Average Latency</b>	5.6 ms
	<b>Spindle Speed</b>	5400 rpm	
	<b>Sectors</b>	976,773,168	
<b>Operating Temperature</b>	41° to 131° F (5° to 55° C)		
<b>Option Kit Contents</b>	HP Solid State Hybrid Drive, the appropriate cable for the drive, installation guide		

1. GB = 1 billion bytes. Actual available capacity is less.

2. These drives are designed to consistently meet the seek times represented. Physical seeks, regardless of mode (such as track-to-track and average), are expected to meet the noted values. However, due to the manner in which these drives are formatted, benchmark tests that include command overhead or measure logical seeks may produce results that vary from these specifications.

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