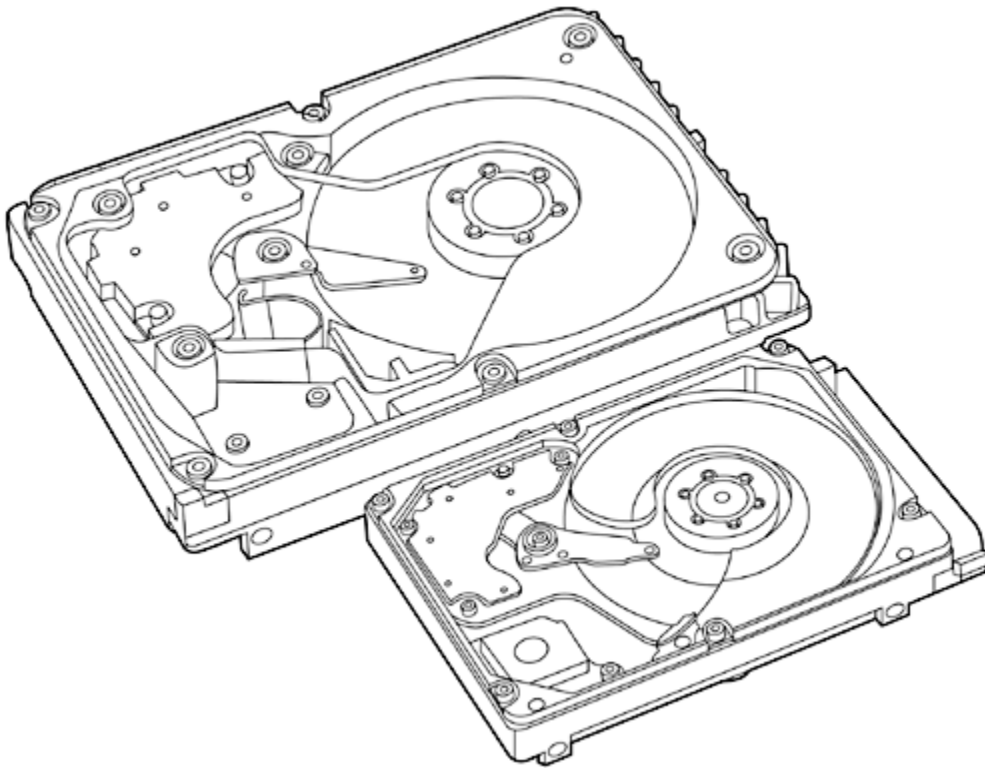


Overview

HP offers a variety of tested, HP-qualified, SMART* capable, SATA Hard Drives offering data integrity and availability in hot-pluggable models. HP 3.5" and Small Form Factor (2.5") SATA drives provide the lowest cost per GB targeted for non-mission critical applications with low workloads of 50% or less. All SATA drives offer a one-year limited warranty.

All HP hard drives pass a rigorous qualification process, which ensures that every HP drive is proven to perform in your HP ProLiant server. Before final certification, all HP SATA hard drives are optimized for compatibility and functionality, including support of SMART and HP Systems Insight Manager.

*S.M.A.R.T.: Self Monitoring Analysis and Reporting Technology, first developed at HP, detects possible hard disk failure before it occurs, allowing replacement of the component before failure occurs.



What's New

- New 160GB 1.5G SATA 7.2K Non-Hot Plug 3.5" Hard Disk Drive
 - New 250GB 1.5G SATA 7.2K Non-Hot Plug 3.5" Hard Disk Drive
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Overview

Models

Small Form Factor (SFF) SATA Hot Plug Drives

HP 60GB 1.5G SATA 5.4K SFF HDD 379306-B21

3.5" SATA hot plug Drives

HP 500GB 1.5G SATA 7.2K 3.5" HDD 395473-B21

HP 250GB 1.5G SATA 7.2K 3.5" HDD 349239-B21

HP 160GB 1.5G SATA 7.2K 3.5" HDD 349238-B21

HP 80GB 1.5G SATA 7.2K 3.5" HDD 349237-B21

3.5" SATA non-hot plug Drives

500GB 1.5G SATA 7.2K NHP 3.5" HDD, FIO 404469-B21

NOTE: [Factory Integrated Only.](#)

HP 250GB 1.5G SATA 7.2K NHP 3.5" HDD 411276-B21

HP 160GB 1.5G SATA 7.2K NHP 3.5" HDD 411275-B21

HP 80GB 1.5G SATA 7.2K NHP 3.5" HDD 383410-B21

Standard Features

Drive Quality

Today's entry-level servers are seeing an increase in maximum storage capacity, per hard disk drive, requiring higher levels of data integrity. In the often-changing entry-level server environment, storage has become a critical component of the information system, significantly defining both the systems reliability. This is why HP drives undergo an intense qualification process that eliminates data integrity problems, firmware and O/S incompatibilities and other causes of data corruption. All drives are proven to perform in the HP ProLiant systems for which they were designed.

Performance

Only those drives whose quality is suitable for an entry-level external storage enclosures and server environments are selected through the HP qualification process. All our drives are proven to be reliable in the ProLiant entry-level server environment.

Integration

Many issues customers have with third party Serial-ATA drives are integration related issues. When buying from another supplier, there is no guarantee that a drive has been correctly set for proper operation with ProLiant entry-level servers. These incompatibilities can create problems in configuration, can rob your system of performance, or at their worst, can result in data corruption. HP hard drives are specifically designed and tested for flawless operation in your HP equipment. The integration of hard drives in HP systems means that cables, controllers, and firmware are right for your ProLiant entry level server.

Server and Storage Support

Please see the following URL for the latest list of supported servers and enclosures:
<http://h18004.www1.hp.com/products/servers/proliantstorage/drives-enclosures/docs/index.html>

Service and Support, HP Care Pack, and Warranty Information

HP Care Pack Information

Keeping industry standard systems truly available requires high-quality service with a single point of contact. The HP Care Pack program is tailored specifically to protect your HP ProLiant system and options. These convenient packages allow you to maximize server utilization and performance with fewer resources. Care Pack services provide a range of life cycle support options that let you choose the service levels that meet your business requirements, from basic to mission-critical.

A full range of HP Care Pack hardware and software services are available including:

- Installation and start up
- Education courses
- Extended onsite hardware coverage hours from Next Business Day to 24 hours a day, 7 days a week with options including 4-hour response or 6-hour Call To Repair
- Comprehensive range of software technical support for Microsoft and Linux-based IT solutions helping to deliver high level of application availability.
- Response times range from 30 minutes for critical problems to 2 hours.
- System management, performance services and Mission Critical Support Solution

HP Premium integrated hardware and software support and Mission Critical offers are available either as Care Pack offers or as tailored solutions to meet your business needs. These solutions deliver high levels of application availability. Delivered by experienced, certified engineers, these packages help you maximize server utilization and performance with fewer resources. Available as Support Plus, Support Plus 24, Proactive 24, Critical Services and Mission Critical Partnership.

NOTE: For more information on HP Care Pack services, contact any of our worldwide sales offices or resellers or visit our worldwide Web site on the internet at:

<http://www.hp.com/hps/carepack>

NOTE: For more complete information on HP Services offerings, customers and resellers, please visit us at: <http://www.hp.com/hps>

NOTE: Additional information regarding worldwide limited warranty and technical support is available at: <http://h18004.www1.hp.com/products/servers/platforms/warranty/index.html>

Components

The following brick level options/components do not have individual HP Care Pack services. These items will be included in product HP Care Pack services into which they are installed.

Disk Drives	Tape Drives	CD/DVD ROM	SCSI Hubs in SBBs	Adapters
Bus Converters	Backplane RAID Controllers	Power Supplies	Cabling	Fans

Technical Specifications

SFF SATA Hot Plug Drives

HP 60GB 1.5G SATA 60GB 5,400 rpm
5.4K SFF HDD
379306-B21

Capacity	60,011 MB	
Height	0.63 in (16.0 mm)	
Width	3.00 in (76.2 mm)	
Depth	5.38 in (136.6 mm)	
Interface	Serial ATA	
Transfer Rate (Maximum)	1.5 Gb/s	
Seek Time (typical reads, including settling)	Single Track	1.5 ms
	Average	12 ms
	Full-Stroke	22ms
Physical Configuration	Rotational Speed	5400 rpm
	Bytes/Sector	512
	Logical Blocks	117,210,240
Operating Temperature	41° to 122° F (5° to 50° C)	

3.5" SATA Hot Plug Drives

HP 80GB 1.5G SATA 80GB 7,200 rpm
7.2K 3.5" HDD
349237-B21

Capacity	80,026 MB	
Height	1.04 in (26.4 mm)	
Width	4.36 in (110.7 mm)	
Depth	7.25 in (184.2 mm)	
Interface	Serial ATA	
Transfer Rate (Maximum)	1.5 Gb/s	
Seek Time (typical reads, including settling)	Single Track	0.9 ms
	Average	9.0 ms
	Full-Stroke	17.0 ms
Physical Configuration	Rotational Speed	7,200 rpm
	Bytes/Sector	512
	Logical Blocks	156,301,488
Operating Temperature	41° to 131° F (5° to 55° C)	

Technical Specifications

**HP 160GB 1.5G SATA 160GB 7,200 rpm
7.2K 3.5" HDD
349238-B21**

Capacity	160,041 MB	
Height	1.04 in (26.4 mm)	
Width	4.36 in (110.7 mm)	
Depth	7.25 in (184.2 mm)	
Interface	Serial ATA	
Transfer Rate (Maximum)	1.5 Gb/s	
Seek Time (typical reads, including settling)	Single Track	0.9 ms
	Average	9.0 ms
	Full-Stroke	17.8 ms
	Rotational Speed	7,200 rpm
Physical Configuration	Bytes/Sector	512
	Logical Blocks	312,581,808
Operating Temperature	41° to 131° F (5° to 55° C)	

**HP 250GB 1.5G SATA 250GB 7,200 rpm
7.2K 3.5" HDD
349239-B21**

Capacity	250,059 MB	
Height	1.04 in (26.4 mm)	
Width	4.36 in (110.7 mm)	
Depth	7.25 in (184.2 mm)	
Interface	Serial ATA	
Transfer Rate (Maximum)	1.5 Gb/s	
Seek Time (typical reads, including settling)	Single Track	1.0 ms
	Average	10 ms
	Full-Stroke	18.0 ms
	Rotational Speed	7,200 rpm
Physical Configuration	Bytes/Sector	512
	Logical Blocks	488,397,168
Operating Temperature	41° to 131° F (5° to 55° C)	

**HP 500GB 1.5G SATA 500GB 7,200 rpm
7.2K 3.5" HDD
395473-B21**

Capacity	500,107 MB	
Height	1.04 in (26.4 mm)	
Width	4.36 in (110.7 mm)	
Depth	7.25 in (184.2 mm)	
Interface	Serial ATA	
Transfer Rate (Maximum)	1.5 Gb/s	
Seek Time (typical reads, including settling)	Single Track	0.9 ms
	Average	9.0 ms
	Full-Stroke	17.8 ms
	Rotational Speed	7,200 rpm
Physical Configuration	Bytes/Sector	512
	Logical Blocks	976,773,168
Operating Temperature	41° to 131° F (5° to 55° C)	

3.5" SATA Non-Hot Plug Drives

**HP 80GB 1.5G SATA 80GB 7,200 rpm
7.2K NHP 3.5" HDD
383410-B21**

Capacity	80,026 MB	
Height*	1.028 in (26.1 mm)	
Width	4.00 in (101.6 mm)	



Technical Specifications

**HP 160GB 1.5G SATA 160GB 7,200 rpm
7.2K NHP 3.5" HDD
411275-B21**

Depth*	5.787 in (147.0 mm)	
Interface	Serial ATA	
Transfer Rate (Maximum)	1.5 Gb/s	
Seek Time (typical reads, including settling)	Single Track	0.9 ms
	Average	9.0 ms
	Full-Stroke	17.0 ms
Physical Configuration	Rotational Speed	7,200 rpm
	Bytes/Sector	512
	Logical Blocks	156,301,488
Operating Temperature	41° to 131° F (5° to 55° C)	

Capacity	160,041 MB	
Height*	1.028 in (26.1 mm)	
Width	4.00 in (101.6 mm)	
Depth*	5.787 in (147.0 mm)	
Interface	Serial ATA	
Transfer Rate (Maximum)	1.5 Gb/s	
Seek Time (typical reads, including settling)	Single Track	0.9 ms
	Average	9.0 ms
	Full-Stroke	17.8 ms
Physical Configuration	Rotational Speed	7,200 rpm
	Bytes/Sector	512
	Logical Blocks	312,581,808
Operating Temperature	41° to 131° F (5° to 55° C)	

**HP 250GB 1.5G SATA 250GB 7,200 rpm
7.2K NHP 3.5" HDD
411276-B21**

Capacity	250,059 MB	
Height*	1.028 in (26.1 mm)	
Width	4.00 in (101.6 mm)	
Depth*	5.787 in (147.0 mm)	
Interface	Serial ATA	
Transfer Rate (Maximum)	1.5 Gb/s	
Seek Time (typical reads, including settling)	Single Track	1.0 ms
	Average	10 ms
	Full-Stroke	18.0 ms
Physical Configuration	Rotational Speed	7,200 rpm
	Bytes/Sector	512
	Logical Blocks	488,397,168
Operating Temperature	41° to 131° F (5° to 55° C)	

***NOTE:** Maximum drive dimension

Technical Specifications

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For hard drives, 1 GB = 1 billion bytes. Actual formatted capacity is less.