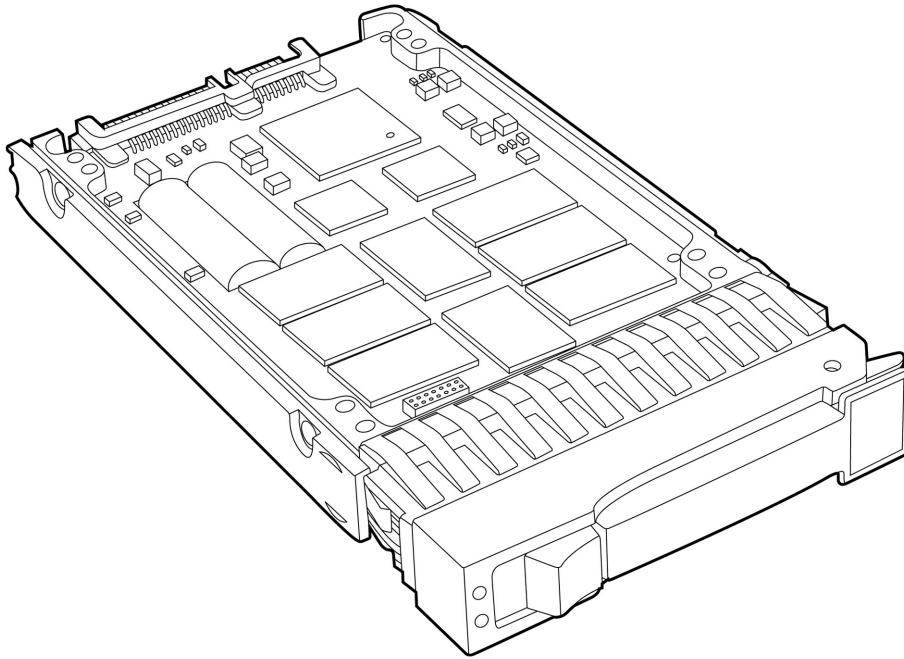


Overview

HP is introducing the next generation of solid state drives for ProLiant servers. These solid state drives are 3Gb/second SATA interface in both 60GB and 120GB capacities. The products, based on NAND Single Level Cell (SLC) flash technology are available as SFF and LFF hot plug devices on the HP universal drive carrier for general use across the ProLiant portfolio. They are also offered as a Non-hot plug devices for select non-hot plug environments. These drives deliver higher performance, lower latency and low power solutions when compared with traditional rotating media and fit seamlessly into the existing HP server infrastructure.



What's New

- Adding non-hot plug SKU's for support on HP ProLiant BL490c G7, HP ProLiant BL280c G6 and the internal non-hot plug bay on the HP ProLiant DL580 G7.

Models

SATA Hot Plug Midline (MDL) Solid State Drives

HP 60GB 3G SATA SFF (2.5-inch) Midline 1yr Warranty Solid State Drive 572071-B21

HP 120GB 3G SATA SFF (2.5-inch) Midline 1yr Warranty Solid State Drive 572073-B21

SATA Hot Plug 3.5" Midline (MDL) Solid State Drives

HP 60GB 3G SATA LFF (3.5-inch) Midline 1yr Warranty Solid State Drive 570761-B21

HP 120GB 3G SATA LFF (3.5-inch) Midline 1yr Warranty Solid State Drive 570763-B21

SATA Non-hot Plug Midline (MDL) Solid State Drives

HP 120GB 3G NHP 2.5 SATA MDL SSD 572077-B21

HP 60GB 3G NHP 2.5 SATA MDL SSD 572075-B21



Standard Features

What is SSD?	An enduring data storage device using semiconductor technology to store and access data which is non-volatile without the aid of an auxiliary power source.
Drive Quality	Today's distributed enterprise is seeing larger, more complex applications, an increase of mission-critical data moving to the server, increasing demand for transaction processing and critical server consolidation. In this environment, storage has become a critical component of the information system, significantly defining both the systems reliability and performance. This is why HP drives undergo an intense qualification process that eliminates firmware and O/S incompatibilities. All drive firmware is specific to our drives and is designed to maximize both functionality and compatibility. All our drives are proven to be reliable and tuned for optimum performance in the HP equipment for which they were designed.
Integration	Many issues customers have with third party drives are "simple" integration issues. When buying from another supplier, there is no guarantee that a drive has been correctly set for proper operation with ProLiant servers and storage systems. These incompatibilities can create problems in configuration, can rob your system of performance, or at their worst, can cause you to lose data. HP drives are specifically designed and tested for flawless operation in your HP equipment. The integration of hard drives in HP systems means that associated components are right for your ProLiant server.
Support Matrix	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 NOTE: Non-hot plug devices are 15mm Z-height which restricts them those servers that can accept a 15mm device
Warranty	SSD Midline drives have a 1 year limited warranty regardless of the warranty period for the system in which they are installed.



Service and Support

Service and Support

HP Care Pack Services: Packaged server and storage services for increased uptime, productivity and ROI

When you buy HP server and storage products and solutions, it's also a good time to think about what levels of support you may need. Our portfolio of service options reduce deployment and management worries while helping you get the most out of your server and storage investments. We take a holistic approach to your environment, bridging servers, blades, storage, software and network infrastructures with our packaged HP Care Pack Services for servers and storage.

Protect your business beyond warranty

When it comes to robustness and reliability, standard computing equipment warranties have matured along with technology. Good news that can also create problems stemming from depending on standard warranties designed to only protect against product defects and some downtime causes. Using a standard approach to warranty uplifts, such as HP Care Pack Services, helps reduce downtime risks and provides operational consistency for mission-critical and standard business computing.

HP Care Pack Services: Upgrading or extending standard server and storage warranties cost effectively

HP Care Pack Services offer a standard reactive hardware and software support services suite sold separately, or combined with our Support Plus and Support Plus 24 services. The portfolio also provides a combination of integrated proactive and reactive services, such as Proactive 24 Service and Critical Service. In addition with HP Proactive Select, you can acquire the specific proactive constancy and technical services. HP Proactive Select menu offers a broad set of service options that you can mix and match depending on your specific requirements. Proactive service options include offers for server, storage, network, SAN device, software, environment and education services.

HP server and storage lifecycle support services offers a full spectrum of customer care-from technology support to complex migrations to complete managed services. HP Factory Express provides customization, integration and deployment services for turnkey solutions. HP Education Services offer flexible, comprehensive training on to help your IT staff get the most out of your server and storage investments. HP Financial solutions extend innovative financing and cost-effective asset management programs-from purchase to equipment retirement.

Learn more: www.hp.com/services/servers and www.hp.com/services/storage

NOTE: Care Pack Services availability may vary by product and country.

HP Care Pack Services are sold by HP and HP Authorized Service Partners:

- Services for customers purchasing from HP or an enterprise reseller are quoted using HP order configuration tools.
- Customers purchasing from a commercial reseller can find HP Care Pack Services at <http://www.hp.com/go/lookuptool>

Recommended HP Care Pack Services for optimal satisfaction with your HP product

Recommended Services

Hardware Options Support

HP Care Packs provide support for all HP-branded hardware options qualified for inclusion in your server or storage solution. Any additional HP-qualified options installed within the server are covered at the same service level and for the same period as the server and no additional cost.



Service and Support

- Help improve or maintain system uptime
- Convenient onsite support
- Committed response time

<http://h20195.www2.hp.com/V2/GetPDF.aspx/5982-6547EEE>

3-Year HP Hardware Support Onsite Service, 4-hour response, 24x7

Provides you with rapid remote support and if required an HP authorized representative who will arrive on site any time and day of the year to begin hardware maintenance service within 4 hours of the service request being logged.

- This service provides a trained HP service specialist to perform an installation that meets HP quality standards, for:
- Help improve or maintain system uptime
- Convenient onsite support
- Committed response time

<http://h20195.www2.hp.com/V2/GetPDF.aspx/5982-6547EEE>

HP Installation and Startup of HP ProLiant Servers

Provides for the installation of your new HP ProLiant server and operating system to assist you in bringing your new HP ProLiant server and operating system into operation in a timely and professional manner.

- This service provides a trained HP service specialist to perform an installation that meets HP quality standards, for:
- Delivery of the service at a mutually scheduled time convenient to your organization
- Availability of an HP service specialist to answer basic questions during the onsite delivery of this service
- Custom installation as detailed in "Delivery specifications" or in a Statement of Work (SOW)
- Verification prior to installation that all service prerequisites are met

<http://h20195.www2.hp.com/V2/GetPDF.aspx/5982?7572ENN>

Optional HP Care Pack Services that will enhance your HP product experience

Optional Services

3-Year HP Hardware Support Onsite Call-to-Repair (CTR) Service, 6- or 24-hour

As an alternative to our recommended support level, for customers who need committed call-to-repair for server hardware.

Provides your IT manager with a team of support specialists who will quickly begin troubleshooting the system to help return the hardware to operating condition within 6 or 24 hours of the initial service request to the HP Global Solution Center.

<http://h20195.www2.hp.com/V2/GetPDF.aspx/5982-6547EN.pdf>

3-Year HP Support Plus 24

As an alternative to our recommended support level, for customers who need access to responsive 24x7 hardware and software support plus software updates on HP and selected third party products:

For a higher return on your server and storage technology, our 3-year combined reactive support service



Service and Support

delivers integrated onsite hardware/software support services available 24x7x365, including access to HP technical resources, 4-hour response onsite hardware support and software updates.

<http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-6638EEE>

HP Proactive Select Service

Customer needs on demand access to consulting, technical proactive services and education courses

Provides a flexible way to purchase HP best-in-class consultancy and technical services. You can buy Proactive Select Service Credits when you purchase your hardware and then use the credits over the next 12 months.

<http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA2-3842ENN>

eSupport

HP eSupport is a portfolio of technology-based services that assist you with managing your business environment - from the desktop to the data center.

Support Portal

The HP support portal provides one-stop access to the information, tools and services you need to manage the daily operations of your IT environment.

Features include:

- Access to self-solve tools (including search technical knowledge base)
- Efficient logging and tracking of support cases
- Collaboration with other business and IT professionals
- Download of patches and drivers
- Access to diagnostic tools
- Proactive notification of relevant information

Access to certain features of the support portal requires an HP service agreement. To access the support portal, visit: <http://www.hp.com/support>

HP Insight Remote Support software delivers secure remote support for your HP Servers and Storage, 24 X 7, so you can spend less time solving problems and more time focused on your business. You can have your systems remotely monitored for hardware failure using secure technology that's been proven at thousands of companies around the world. In many cases, you can avoid problems before they occur.

Customer Technical Training

In today's cost-conscious business environment, IT professionals, developers, consultants and users face an interesting challenge: how to keep up with the latest technologies and expand important skills while delivering profitable results on current projects. To help address this challenge, HP offers innovative training solutions that help keep you up-to-date on virtualization, server, storage, Insight Control, Citrix, Microsoft® and open source/Linux-related topics-while spending less time away from business-critical activities.

HP Services Awards

HP Technology Services continues to be recognized for service and support excellence by customers, partners, industry organizations and publications around the world. Recent honors and award reflect our services team's dedications, technical expertise, professionalism and uncompromising commitment to customer satisfaction.



Service and Support

Additional Services Information

To learn more on HP ProLiant servers, HP BladeSystem servers and HP storage products, please contact your HP sales representative or HP Authorized Channel Partner. Or visit www.hp.com/services/proliant or www.hp.com/services/bladestystem or <http://www.hp.com/hps/storage>



Technical Specifications

SATA Hot Plug Midline (MDL) Solid State Drives

Application Information Solid State Drives offer high performance, low latency, low power solutions that fit seamlessly into the HP server infrastructure using HP's universal hot plug drive carrier

HP 60GB 3G SATA SFF (2.5-inch) Midline 1yr Warranty Solid State Drive	572071-B21	Capacity	60GB	
		Height	15mm	
		Length x Width	Standard SFF	
		Interface	SATA	
		Transfer Rate Synchronous (Maximum)	3Gbs	
		Performance	Rotational Speed	N/A
			Random Reads	>20,000 IOP/s
			Random Writes	>5,000 IOP/s
			Sequential Reads	230MB/s
			Sequential Writes	180MB/s
		Physical Configuration	Logical Blocks	512 bytes
		Power	2W	
		Operating Temperature	0-60°C	

HP 120GB 3G SATA SFF (2.5-inch) Midline 1yr Warranty Solid State Drive	572073-B21	Capacity	120GB	
		Height	15mm	
		Length x Width	Standard SFF	
		Interface	SATA	
		Transfer Rate Synchronous (Maximum)	3Gbs	
		Performance	Rotational Speed	N/A
			Random Reads	>20,000 IOP/s
			Random Writes	>5,000 IOP/s
			Sequential Reads	230MB/s
			Sequential Writes	180MB/s
		Physical Configuration	Logical Blocks	512 bytes
		Power	2W	
		Operating Temperature	0-60°C	

SATA Hot Plug 3.5" Midline (MDL) Solid State Drives

Application Information Solid State Drives offer high performance, low latency, low power solutions that fit seamlessly into the HP server infrastructure using HP's universal hot plug drive carrier



Technical Specifications

HP 60GB 3G SATA LFF (3.5-inch) Midline 1yr Warranty Solid State Drive	570761-B21	Capacity	60GB	
		Height	15mm	
		Length x Width	Standard SFF	
		Interface	SATA	
		Transfer Rate Synchronous (Maximum)	3Gbs	
		Performance	Rotational Speed	N/A
			Random Reads	>20,000 IOP/s
			Random Writes	>5,000 IOP/s
			Sequential Reads	230MB/s
			Sequential Writes	180MB/s
		Physical Configuration	Logical Blocks	512 bytes
		Power	2W	
		Operating Temperature	0-60°C	

HP 120GB 3G SATA LFF (3.5-inch) Midline 1yr Warranty Solid State Drive	570763-B21	Capacity	120GB	
		Height	15mm	
		Length x Width	Standard SFF	
		Interface	SATA	
		Transfer Rate Synchronous (Maximum)	3Gbs	
		Performance	Rotational Speed	N/A
			Random Reads	>20,000 IOP/s
			Random Writes	>5,000 IOP/s
			Sequential Reads	230MB/s
			Sequential Writes	180MB/s
		Physical Configuration	Logical Blocks	512 bytes
		Power	2W	
		Operating Temperature	0-60°C	

SATA Non-hot Plug Midline (MDL) Solid State Drives

Application Information Solid State Drives offer high performance, low latency, low power solutions that fit seamlessly into select non-hot plug HP ProLiant server environments



Technical Specifications

HP 120GB 3G NHP 2.5 SATA MDL SSD	572077-B21	Capacity	120GB	
		Height	15mm	
		Length x Width	Standard SFF	
		Interface	SATA	
		Transfer Rate Synchronous (Maximum)	3Gbs	
		Performance	Rotational Speed	N/A
			Random Reads	>20,000 IOP/s
			Random Writes	>5,000 IOP/s
			Sequential Reads	230MB/s
			Sequential Writes	180MB/s
		Physical Configuration	Logical Blocks	512 bytes
		Power	2W	
		Operating Temperature	0-60°C	

HP 60GB 3G NHP 2.5 SATA MDL SSD	572075-B21	Capacity	60GB	
		Height	15mm	
		Length x Width	Standard SFF	
		Interface	SATA	
		Transfer Rate Synchronous (Maximum)	3Gbs	
		Performance	Rotational Speed	N/A
			Random Reads	>20,000 IOP/s
			Random Writes	>5,000 IOP/s
			Sequential Reads	230MB/s
			Sequential Writes	180MB/s
		Physical Configuration	Logical Blocks	512 bytes
		Power	2W	
		Operating Temperature	0-60°C	

Technical Specifications

Environment-friendly Products and Approach

End-of-life Management and Recycling

Hewlett-Packard offers end-of-life HP product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to: <http://www.hp.com/go/green>. To recycle your product, please go to: <http://www.hp.com/go/green> or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: <http://www.hp.com/go/green>. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

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

