

Product Highlights

Manage your small and midrange business growing storage needs by deploying the next generation 6Gb SAS low cost, flexible tiered external storage system. Ideal for small application environments in SMBs, remote offices and departmental locations as well as tier 2 or 3 storage for enterprise customers. The new 6Gb SAS enclosures - Large Form Factor (LFF) D2600 with 12 drive bays and Small Form Factor (SFF) D2700 with 25 drive bays - offer modular solutions to simplify capacity expansion of HP ProLiant server environments to external storage without having to make the full move to SAN or NAS. This allows you to buy what is needed today and purchase additional capacity as data storage needs grow.

The D2000 enclosures support direct attach storage to ProLiant Servers with the HP Smart Array P411 and P212 Controllers. Total support can grow as needed to up to 96 LFF drives or 100 SFF drives.

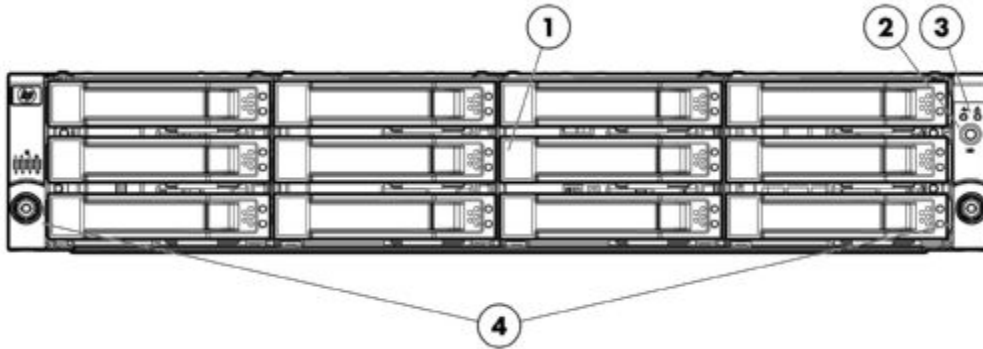
What's New

- Adding support for 3G SATA HDDs
 - D2600 - Large Form Factor (LFF)
 - HP 500GB 3G SATA 7.2K 3.5 inch LFF MDL HDD
 - HP 1TB 3G SATA 7.2K 3.5 inch LFF MDL HDD
 - D2700 - Small Form Factor (SFF)
 - HP 250GB 3G SATA 5.4K 2.5 inch SFF ETY HDD
 - HP 500GB 3G SATA 7.2K 2.5 inch SFF MDL HDD

Models

HP StorageWorks	HP StorageWorks D2600 Disk Enclosure	AJ940A
D2000 Disk Enclosures	HP StorageWorks D2700 Disk Enclosure	AJ941A
	HP StorageWorks D2600 w/12 450GB 6G SAS 15K LFF Dual Port HDD 5.4TB Bundle	AW522A
	HP StorageWorks D2600 w/12 600GB 6G SAS 15K LFF Dual Port HDD 7.2TB Bundle	AW523A
	HP StorageWorks D2700 w/25 146GB 6G SAS 15K SFF Dual Port HDD 3.6TB Bundle	AW524A
	HP StorageWorks D2700 w/25 300GB 6G SAS 10K SFF Dual Port HDD 7.5TB Bundle	AW525A
	HP StorageWorks D2700 w/25 500GB 6G SAS 7.2K SFF Dual Port MDL HDD 12.5TB Bundle	AW526A

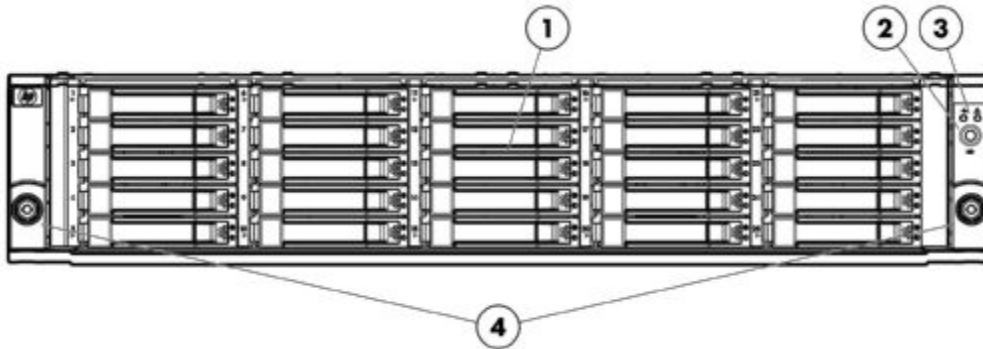
Product Highlights



HP StorageWorks D2600 Disk Enclosure

Front panel LEDs and buttons

1. Disk drives
2. UID push button and LED
3. Enclosure LEDs
4. Rack-mounting thumb screw

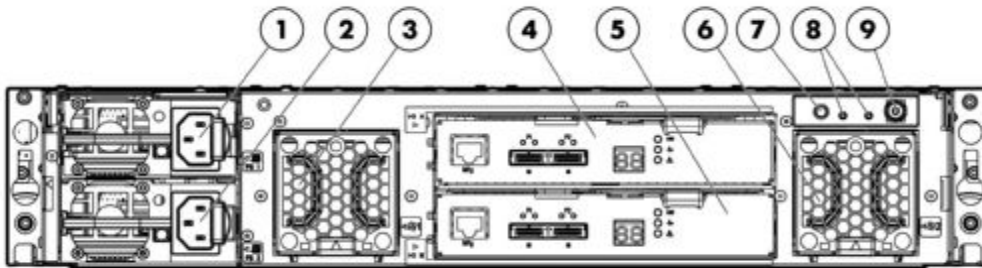


HP StorageWorks D2700 Disk Enclosure

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1. Disk drives
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Product Highlights



Rear Panel components

1. Power Supply 1
2. Power Supply 2
3. Fan 1
4. I/O Module A
5. I/O Module B
6. Fan 2
7. Rear UID push button
8. Enclosure LEDs
9. Power on/standby button

At a Glance

At a Glance

Affordable, low cost Storage

- Purchase only what you need today and avoid up-front costs. Modular platform provides investment protection and by purchasing only what is needed today, allows for growth as storage requirements evolve. Buying storage only when needed simplifies planning and relieves budget pressures.
- D2700: Maximum storage capacity of 7.5 TB SAS (300GB SAS), 12.5 TB SAS MDL (500GB SAS MDL) or SATA (500TB SATA) per enclosure scalable to 30 TB SAS, 50 TB SAS MDL or SATA.
- D2600: Maximum storage capacity of 7.2 TB SAS (600GB SAS) or 12TB SATA per enclosure scalable to 57.6 TB SAS, or 96TB SATA.
- Enterprise-class dual port SAS or archival-class SATA drives as the need and budget dictates

Flexible/Scalable

- Grow storage capacity easily by attaching up to four D2600 enclosures from a single Controller port, for expansion of up to 8 enclosures or 96 drives, allowing for room to grow as storage demands increase
- Grow storage capacity easily by attaching up to two D2700 enclosures from a single Controller port, for expansion of up to 4 enclosures or 100 drives, allowing for room to grow as storage demands increase.
- Flexibility to mix and match SAS and SATA drives in the same enclosure

Easy to Manage

- Hassle free expansion - little IT expertise required.
- Compatible with two of the latest HP Smart Array SAS controllers (P411 & P212).
- Familiar ProLiant management tools provided via the Smart Controller - SIM, ACU, ORCA.
- Easy removal of parts provides better serviceability.

High performance 6 Gb SAS host connectivity

- 6Gb SAS host connectivity enables a higher data transfer rate.
- End-to-end 6 Gb SAS connectivity ensures a high performance storage solution using a P212 or a P411 Smart Array controller and the D2000 enclosures.
- Since storage is contained within the rack, latency is reduced as data does not travel over large distances.

HP reliability

- Deploy with confidence. HP offers a complete end-to-end storage solution including the D2000 storage enclosures, Smart Array P212 or P411 and HP ProLiant Servers
- Familiar Smart Array technology of the P212 or the P411 Smart Array Controller/512 MB enables support for RAID levels 0, 1, 1+0, 5 and RAID 6 with ADG. Optional battery-backed write cache.
- Advanced Data Guarding (RAID 6): This is the highest level of fault tolerance. It allocates two sets of parity data across drives and allows simultaneous write operations. This level of fault tolerance can withstand two simultaneous drive failures without downtime or data loss.
- Distributed Data Guarding (RAID 5): This allocates parity data across multiple drives and allows simultaneous write operations.
- Receive pre-failure alerts with HP SIM. When drives installed in D2000 disk enclosures are used in conjunction with the P212 or P411 Smart Array Controller and Systems Insight Manager, the Smart Array firmware in HP hard drives enables extensive fault prediction capabilities. If potential problems develop in one of the drives, the Smart Array Controller, Systems Insight Manager and/or Smart hard disk drive lets you know in advance so you can have the drive replaced, before it fails, under warranty.
- Remove / replace/ add components when system is running without service disruption with hot Plug drives, power and cooling
- Redundant power and cooling provides increased reliability as failure of a power supply or fans does not interrupt system functioning

D2000 Enclosure Components

HP StorageWorks D2000 Disk Enclosures

The HP StorageWorks D2000 Disk Enclosures (hereafter referred to as "D2000") is a family of disk drive storage enclosure with 6 Gb SAS host connectivity. The D2000 is a 2U direct attach, external storage solution designed for small to medium size deployments or remote locations. These enclosures deliver industry-leading availability, storage density, and upgradeability to meet customers' demanding and growing storage needs. The D2000 delivers the ideal mix of low-cost and high capacity, for minimum I/O workloads such as reference data, archival, and disk-to-disk backup.

High Levels of Storage Density, Data Protection, and Functionality

- **Storage Capacity** - The SFF D2700 disk enclosure supports up to twenty five 6Gb SFF SAS drives for a maximum capacity of 7.5 TB with 6Gb 300GB SAS drives or 12.5 TB with 500GB 6Gb SAS MDL or 500GB 3Gb SATA drives. The LFF D2600 disk enclosure supports up to twelve 6Gb LFF SAS drives for a maximum capacity of 7.2 TB with 6Gb 600GB SAS drives or 12TB with 3G 1TB SATA drives.
- **Data Protection** - D2000 is designed for a high level of data protection. It includes redundant fans and power supplies (standard), and supports various RAID levels including RAID6 with ADG (depending upon the Smart Array Controller used)
- **Storage Manageability** - The D2000 features familiar configuration and management tools such as Array Configuration Utility (ACU) and HP Systems Insight Manager (SIM). Online Management Features include: Online Capacity Expansion, Online RAID Level Migration, Online Stripe Size Migration, Online Spares (Global)
- **Choice of Computing Platform** - The D2000 is designed and qualified for HP ProLiant servers
- **Advanced Data Guarding (RAID 6 with ADG) Fault Tolerance** - It allocates two sets of parity data across drives and allows simultaneous write operations. This level of fault tolerance can withstand two simultaneous drive failures without downtime or data loss.

Low Total Cost of Ownership

The modular, scalable design of the D2000 disk enclosure family provides an extremely flexible platform. You can buy what you need today and purchase additional capacity as your data storage needs grow, instead of making a large up-front investment. Additional drives and enclosures can be easily added as your needs dictate.

- **Cascading** - The D2700 has the unique capability of cascading up to two (2) enclosures behind a single SAS port (depends on the Smart Array Controller). The D2600 has the capability of cascading up to four (4) enclosures behind a single SAS port (depends on the Smart Array Controller).
- **Pre-Failure Warranty** - Drives installed in either the D2600 or the D2700 and monitored under HP Systems Insight Manager are supported by a Pre-Failure (replacement) Warranty (3 years for SAS drives). Pre-Failure Warranty allows for the replacement of designated drives in the D2600 or the D2700 before they actually fail when using HP Systems Insight Manager on HP ProLiant servers.
NOTE: Some operating systems may not support all of these features.
- **Integrated Configuration and Management Tools** - The D2000 family utilizes the standard, integrated set of Smart Array management and utility software for HP ProLiant Servers. These tools consistently lower the cost of ownership by reducing training and technical expertise necessary to install and maintain HP server storage.

D2000 Enclosure Components

D2000 Disk Enclosures D2600 Disk Enclosure The 2U array houses up to twelve (12) 3.5 inch Universal hot pluggable SAS drives.

Each D2600 includes the following standard components:

- D2600 base enclosure with redundant power supplies and fan modules
- Rack mounting hardware kit
- 0.5m mini-SAS cable
- Two PDU interconnect cords

D2700 Disk Enclosure The 2U array houses up to twenty five (25) 2.5 inch Universal hot pluggable SAS drives.

Each D2700 includes the following standard components:

- D2700 base enclosure with redundant power supplies and fan modules
- Rack mounting hardware kit
- 0.5m mini-SAS cable
- Two PDU interconnect cords

Smart Array P411 Features

- The HP Smart Array P411 is HP's PCI Express (PCIe) Serial Attached SCSI (SAS) RAID controller
- Low profile, half height card has 8 ports and utilizes DDR2-800 memory
- The P411 is ideal for RAID 0/1, 5, 1+0 & 5+0 and can be upgraded with the 512MB battery-backed write cache (BBWC) module and Smart Array Advanced via license key for RAID 6 & 6+0

Smart Array P212 Features

- The HP Smart Array P212 is HP's entry level PCI Express (PCIe) Serial Attached SCSI (SAS) RAID controller
- The Low Profile, Half height card has 8 ports and utilizes DDR2-266 memory
The P212 is ideal for RAID 0/1, 1+0 and can be upgraded with the 256MB battery-backed write cache (BBWC) module for RAID 5, 5+0

RAID

Several fault tolerant configurations keep data available and servers running while drives are being replaced - RAID levels that offer fault tolerance include:

- RAID 6 with ADG: Allocates the equivalent of two parity drives across multiple drives and allows simultaneous write operations.
- Distributed Data Guarding (RAID 5): Allocates parity data across multiple drives and allows simultaneous write operations.
- Drive Mirroring (RAID 1 and 1+0 Striped Mirroring): Allocates half of the drive array to data and the other half to mirrored data, providing two copies of every file.

D2000 Disk Enclosure - Software Components

Utilities

The D2000 disk enclosure family utilizes a single, consistent set of utility software for storage and RAID management, setup, configuration and troubleshooting. This consistency reduces the cost of ownership by reducing the training and technical expertise necessary to install and maintain your HP server storage solution.

Configuration Utilities Array Configuration Utility (ACU) [On-line for Microsoft and Linux, Remote Web-Based & Off-line]
Option ROM Configuration for Arrays (ORCA), NetWare ACU
CPQONLIN ([only online support no Web based support](#))

Management/Health Utilities HP Systems Insight Manager

Array Configuration Utility (ACU)

- Provides a graphical view of HP drive array configurations.
- Easy to use Wizards for configuration.
- Web Based ACU supports On-Line, Remote Web Based and Off-line configuration.
- Supports on-line configuration for Microsoft, NetWare and Linux.

HP Systems Insight Manager (SIM)

- Powerful storage, server and server option management tool.
- Monitor storage from a remote central location.
- Browser based Insight Manager 7 provides full access from anywhere on the Intranet, eliminating the need for a dedicated Insight Manager console.

Supported Operating Systems

Microsoft Windows 2003 x86 & x64
Microsoft Windows 2008 x86 & x64
NetWare 6.5/OES
Red Hat Enterprise Linux 4, 5, & 6 (x64 & x86)
Red Hat & SLES XenSource
Solaris 10 x64
SUSE Linux Enterprise Server 10 (x64 & x86)
SUSE Linux Enterprise Server 11 (x64 & x86)
VMware
XenSource
Windows Hyper V

Service and Support, HP Care Pack, and Warranty Information

Warranty

Three-year limited parts only warranty, including hardware diagnostic support, pre-failure warranty (coverage of hard drives, memory and processors). The warranty is fully supported by HP Services and a worldwide network of resellers and service providers. In addition 90-day's getting started software telephone support may be covered under the warranty or available for an additional fee. Enhancements to warranty services are available through HP Care Pack services.

NOTE: The D2000 family has a limited 3 year parts only warranty. SAS drives have 3 year warranty.

The D2700 has been designed with customer self repairable parts to minimize repair time and provide greater flexibility in performing defective parts replacement. Please refer to HP's limited warranty Statement and parts replacement instructions for further details.

<http://h18006.www1.hp.com/products/storageworks/warranty.html>

For increased uptime, productivity and ROI -HP Care Pack packaged services for Storage

These days, you need to get the most out of your storage investment-you can't afford not to. When you buy HP storage products and solutions, it's also a good time to think about what levels of service and support you may need. To help take the worry out of deploying, designing, maintaining, and managing your environment, we've designed a portfolio of service options that are as: flexible, reliable and scalable as your storage. Unlike storage-only vendors, we take a holistic approach to your entire environment, bridging storage, servers, blades, software and network infrastructures with our HP Care Pack packaged services for Storage.

Protect your business beyond the warranty

When it comes to robustness and reliability, standard warranties on today's computing equipment have matured just as the technologies have matured. Good news on some fronts-but also a source of potential problems and subsequent consequences that come from depending on standard warranties alone. Standard warranty protects against product defects and some causes of downtime- but not the business. By using a standard approach to warranty uplifts, such as HP Care Pack Services, you can reduce downtime risks and be more certain of operational consistency for both mission-critical and standard business computing. Simply put, HP Care Pack Services normalize the warranty of combined products - helping you proactively guard against unplanned downtime.

Extending warranties with HP Care Pack Services

For cost-effective upgrading or extending your standard warranty, HP Care Pack Services offer a suite of standard reactive hardware and software support services that are sold separately, or combined as with our Support Plus and Support Plus 24 services. The portfolio also provides a combination of proactive and reactive services, such as Proactive 24 Service and Critical Service. In addition, with HP Proactive Select we offer an innovative approach to service delivery that gives you the flexibility to acquire the specific proactive services you need today, then add services as your needs evolve. HP Proactive Select offers a broad set of technical or per-event type service options - including server, storage, and network, SAN device, and software, environment, installation and education services. Services that you can mix and match depending on your specific requirements, from preliminary planning and equipment delivery to installation, configuration, integration, and testing, through every level of ongoing support. Our HP Care Pack packaged services for Storage assures help when you need it most. And for many products, post-warranty HP Care Pack Services are available when your original warranty has expired.

HP Storage Services: Offering reliability, flexibility and value-just like your storage

HP Storage Services offers a full spectrum of customer care, from technology support to complex migrations to complete completely managed services. HP Factory Express provides customization, integration and deployment services for turnkey solutions. HP Education offers flexible, comprehensive training on storage networking, disk storage systems, and storage software to help your IT staff get the most out of your investments. And HP Financial solutions extend innovative financing and asset management programs to cost-effective buy, manage and eventually retire your older equipment.

HP Storage Services, the trusted business technology experts who manage your technology in action, because when technology works, business works. <http://www.hp.com/hps/storage>

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

Service and Support, HP Care Pack, and Warranty Information

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://h30125.www3.hp.com/csn/salesmktg/elfpack/elf_nonlkup_ctrylang.asp?code=ELNL

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

Recommended Support

3-Year HP Support Plus 24

For a higher return on your storage investment, HP Support Plus 24 provides integrated hardware and software support services designed specifically for your technology. Available 24x7, this 3-year combined reactive support option delivers onsite hardware support and over-the-phone software support around-the-clock. Leverage the full strength of HP Technology Services - customers can trust the services professionals at HP to work collaboratively with them, putting our strategic and technical know-how to work across their entire infrastructure.

- Improve uptime with responsive hardware and software services
- Cost-effectively obtain expert multivendor support
- Enjoy consistent service coverage across geographically dispersed sites
- Update HP and selected third-party software at a predictable cost
- Take advantage of subscription savings on software updates
- Increase revenue-with access to world-class expertise without headcount implications
- Increase customer satisfaction-with no interoperability gaps

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

HP Care Pack Services recommended for optimal satisfaction of all deployments of your product.

3-Year HP Support Plus 24 3-Year HP Support Plus 24 provides integrated hardware and software support services designed specifically for your technology. HP Services engineers deliver reactive onsite hardware support and over-the-phone software support around-the-clock.

HP Installation Service HP Hardware Installation provides initial hardware installation of your product into your technology environment (System configuration is not included)

Product Number	Product Name	Service Name	Care Pack Services Product # and Band	Alternate Care Pack Services Product #
		HP Installation Service	HA113A1-564	U8132E
AJ940A	HP StorageWorks D2600 Disk Enclosure	3-Year HP Support Plus 24	HA110A3-14C	UQ105E
AJ941A	HP StorageWorks D2700 Disk Enclosure	3-Year HP Support Plus 24	HA110A3-14C	UQ105E

Recommended Deployment

HP Installation Service

For smooth startup and better business outcomes, HP Hardware Installation - this service provides initial hardware installation of your product into your technology environment (system configuration is not

Service and Support, HP Care Pack, and Warranty Information

included). In today's new era of business technology- customers can trust the services professionals at HP to work collaboratively with them, putting our strategic and technical know-how to work across their entire infrastructure.

Service Features:

- Installation in accordance with your business's configuration requirements
- The ability to achieve more effective data management
<http://h71028.www7.hp.com/ERC/downloads/5981-9356EN.pdf>

Related HP Care Pack Services that will enhance your HP product experience.

Related Services

HP Proactive Select Service

For customers who need to improve IT performance and manageability through the use of cost effective flexible proactive services:

Proactive Select - increased flexibility, minimal complexity -- Select what works for you - your package

Delivery planning + Proactive Service Credits

- Credits are used to redeem proactive services
- Three 'predefined' service credit levels - 30, 60, 180 credits
- Additional credits available
- Available in 1, 3, 4 & 5 year packages

Reactive

- Utilize existing reactive services products - ranging from Next Day, through 24x7, to 6 Hour Call to Repair

<http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA2-3842ENN.pdf>

HP Entry Storage Data Migration Service for Windows

For customers who need to safely migrate Windows data within their TCP/IP networks with minimal impact to their operations.

You have a need to migrate data between Windows servers within your TCP/IP network. Or you have a need to migrate storage for your Windows servers. Or both. And you need to accomplish these migrations efficiently while minimizing risk at the same time.

HP Entry Storage Data Migration Service for Windows offers you a cost competitive and convenient way to accommodate data migration triggered by a need to refresh or consolidate storage, or to create different storage tiers. This service offers a migration cost in line with the costs of storage products in small and medium-sized storage environments. The service is delivered via a skilled HP service specialist with special consideration for data availability, integrity, and ongoing operational performance during the transfer process.

<http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA2-4734ENW.pdf>

Service and Support, HP Care Pack, and Warranty Information

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>

Remote Support Technology (RST)-HP Remote Support Pack

Taking a more proactive approach to IT support, the HP Remote Support pack plug-in module easily integrates with HP Systems Insight Manager to provide a powerful, unified "single pane of glass" solution for onsite and remote management.

HP Remote Support Pack enhances HP Systems Insight Manager with intelligent event diagnosis plus the automatic submission of hardware event notifications securely to HP support, including acknowledgment and status returns. It adds remote configuration collections to allow the delivery of assessment and proactive services for your SAN storage and HP-UX environments.

Customer Technical Training

Consider education as an integral part of your strategy to get the best return on investment for your HP storage solution. HP offers a variety of training courses on storage software, networking, archiving and disk storage systems. Our classes are available in many delivery modalities from traditional instructor-led courses at one of our 80 training centers worldwide to on-site training customized to your needs or online. www.hp.com/learn/storage

HP Services Awards

HP 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. For a list of all our awards, please visit <http://h20219.www2.hp.com/services/cache/433028-0-0-225-121.html>

Additional Services Information

For more information about HP Care Pack Services for Storage, please visit: <http://www.hp.com/hps/storage>

If you have specific questions, contact your local HP representative. Contact information for a representative in your area can be found at "Contact HP" <http://www.hp.com>

Configuration Information

Step 1: Base Configuration

Model	Model Description	Part Number
D2600	HP StorageWorks D2600 Disk Enclosure	AJ940A
D2600 6G SAS Dual Port drive bundle	HP StorageWorks D2600 w/12 450GB 6G SAS 15K LFF Dual Port HDD 5.4TB Bundle	AW522A
	HP StorageWorks D2600 w/12 600GB 6G SAS 15K LFF Dual Port HDD 7.2TB Bundle	AW523A
D2700	HP StorageWorks D2700 Disk Enclosure	AJ941A
D2700 6G SAS Dual Port drive bundle	HP StorageWorks D2700 w/25 146GB 6G SAS 15K SFF Dual Port HDD 3.6TB Bundle	AW524A
	HP StorageWorks D2700 w/25 300GB 6G SAS 10K SFF Dual Port HDD 7.5TB Bundle	AW525A
D2700 6G SAS Dual Port MDL drive bundle	HP StorageWorks D2700 w/25 500GB 6G SAS 7.2K SFF Dual Port MDL HDD 12.5TB Bundle	AW526A

Configure to Order Program Information

The D2600/D2700 models and options may or may not be factory installed in a rack with add-on controllers, and hard drives. The D2600/D2700 enclosures may be integrated with ProLiant servers or as standalone storage.

Model	Model Description	Part Number
D2600	HP StorageWorks D2600 Disk Enclosure	AJ940A-#0D1
D2700	HP StorageWorks D2700 Disk Enclosure	AJ941A-#0D1

Step 2: Array Controllers

Smart Array Controllers Supported (Single Domain)	Description	Part Number
	HP ProLiant Servers	
	HP Smart Array P411/256 MB Controller	462830-B21
	HP Smart Array P411/512 MB Controller	462832-B21
	HP Smart Array P212/256 MB Controller	462834-B21
	NOTE: Firmware version 2.0 or higher required on the listed Smart Array Controllers	

Configuration Information

Step 3: Choose HP ProLiant Servers

Server Compatibility	HP ProLiant DL180 G5/G6
	HP ProLiant DL185 G5
	HP ProLiant DL320 G5p/G6
	HP ProLiant DL360 G6
	HP ProLiant DL365 G5/G6
	HP ProLiant DL380 G6
	HP ProLiant DL385 G5/G6
	HP ProLiant DL580 G5/G6
	HP ProLiant DL585 G5/G6
	HP ProLiant DL785 G5/G6
	HP ProLiant ML110 G6
	HP ProLiant ML115 G5/G6
	HP ProLiant ML150 G6
	HP ProLiant ML310 G5/G6
	ML350 G6
	ML370 G6

NOTE: For up to date compatibility, please see the following URL for complete Smart Array Controller compatibility and support information:
<http://h18006.www1.hp.com/products/servers/proliantstorage/arraycontrollers/index.html>

Step 4: Choose Hard Drives

SAS Drives	D2600 - Large Form Factor (LFF)	
	HP 300GB 6G SAS 15K 3.5in DP ENT HDD	516814-B21
	HP 450GB 6G SAS 15K 3.5in DP ENT HDD	516816-B21
	HP 600GB 6G SAS 15K 3.5in DP ENT HDD	516828-B21
SAS Drives	D2700 - Small Form Factor (SFF)	
	HP 146GB 6G SAS 10K 2.5 inch DP ENT HDD	507125-B21
	HP 300GB 6G SAS 10K 2.5 inch DP ENT HDD	507127-B21
	HP 72GB 6G SAS 15K 2.5 inch DP ENT HDD	512545-B21
	HP 146GB 6G SAS 15K 2.5 inch DP ENT HDD	512547-B21
	HP 500GB 6G SAS 7.2K 2.5 inch DP MDL HDD	507610-B21
SATA Drives	D2600 - Large Form Factor (LFF)	
	HP 500GB 3G SATA 7.2K 3.5 inch LFF MDL HDD	458928-B21
	HP 1TB 3G SATA 7.2K 3.5 inch LFF MDL HDD	454146-B21
	D2700 - Small Form Factor (SFF)	
	HP 250GB 3G SATA 5.4K 2.5 inch SFF ETY HDD	460355-B21
	HP 500GB 3G SATA 7.2K 2.5 inch SFF MDL HDD	507750-B21

Configuration Information

Step 5: Choose Rack Option

Select each required option with quantities specified.

HP Racks	10642 G2 (42U) Rack Cabinet - Pallet	AF001A
	10642 G2 (42U) Rack Cabinet - Shock Pallet	AF002A
	10642 G2 (42U) Rack Cabinet - Crated	AF003A
	10642 G2 (42U) Rack Cabinet, with Extension - Shock Pallet	AF004A
	10636 G2 (36U) Rack Cabinet - Pallet	AF011A
	10636 G2 (36U) Rack Cabinet - Shock Pallet	AF012A
	10636 G2 (36U) Rack Cabinet - Crated	AF013A
	10636 G2 (36U) Rack Cabinet, with Extension - Shock Pallet	AF014A
	10622 G2 Universal Rack w/Standard Pallet	AF021A
	10622 G2 Universal Rack w/Shock Pallet	AF022A
	Modular Cooling System G2 (MCS G2)	AF025A
	MCS G2 10642 G2 Expansion Rack	AF026A
	10647 Rack G2 Pallet	AF031A
	HP 10642 G2 200mm Extn Shock Rack	AF034A
	10642 G2 (42U) Rack Cabinet 1200mm Deep - Pallet	AF038A
	10842 G2 Universal Rack w/Standard Pallet	AF041A
	10842 G2 Universal Rack w/Shock Pallet	AF042A
	HP 10647 G2 200mm Extn Shock Rack	AF044A
	HP Rack S10614 (14U) Rack Cabinet - Shock Pallet	292302-B22
	5642 - 5000 Series rack	358254-B21

Step 6: Choose Cables

Cable Options	Cables used for connecting the HP Smart Array	
	Mini SAS 4x 2M Cable All	407339-B21*
	Mini SAS 4x 4M Cable All	432238-B21*
	Mini SAS 4x 6M Cable All	432239-B21*

* #0D1 will appear after this part number on your sales order if factory integration is indicated.

Power Cord Options

If customers require a power cord other than the included PDU style cords, they can check the power cord matrix for the appropriate SKU. Please see the following power cord matrix for details: www.hp.com/products/powercords

NOTE: An optional longer 2meter PDU power cable (C14 to C13 style connector) for customers who would like additional length for connections to existing power distribution modules located on the right side of the rack. This is purely optional as the included .7meter power cables will also reach the right sides of the rack. (D2700 power supplies are on the left side of the enclosures). If desired, the quantity to order is 1 AF573A HP RDNT 2m,10A, C13-C14 JMPR CORD

Technical Specifications

LED Indicators for Drive Modules (2)	Online (bottom) Drive Failure/ID (top)
LED Indicators on Front Panel	Heartbeat LED Fault LED UID button/LED
LED Indicators on Rear Panel (6)	I/O Module LED (2) identify/On/Fault; Port (2) Link good/ link fault UID button/LED Heartbeat LED Fault LED Power On/Standby button/system power LED Fan LED Power supply LED
Host Interface	SAS 6 Gb/s
Maximum Number of Drives	Up to twelve 3.5 inch or twenty five 2.5 inch SAS or SATA drives
Temperature Range	Operating 50° to 95° F (10° to 35° C) Shipping -40° to 150° F (-40° to 66° C) NOTE: Rated 1°C per 1000 feet of elevation to 10,000 ft.
Relative Humidity	Operating 10% to 90% Non-operating Up to 95%
Input Power Requirements	Rated Input Voltage 100 to 240 VAC Rated Input Frequency 50 to 60 Hz Rated Input Current 2.68A at 115 VAC typical, 4A Maximum Input Power (max) 300 W
Heat Dissipation (maximum)	964 Btu/hr* * Input Power and Heat Dissipation specifications are maximum values and apply to worst-case conditions at full rated power supply load. The power/heat dissipation for your installation will vary depending on the equipment configuration.
User Interface	Controller display with Status indicators (2) and push buttons (4) on front of controller
Logical Drives (LUN)	Up to 32 Logical drives when connected to P411 or the P212 Smart Array controller
Maximum Logical Drive Size	> 2 TB
RAID Support	RAID 6 with ADG (Advanced Data Guarding) RAID 5 (Distributed Data Guarding) RAID 1 + 0 (Mirroring and Striping) RAID 1 (Mirroring) RAID 0 (Striping)
Upgradeable Firmware	4MB Flashable
Disk Drives and Enclosure Protocol Support	HP 3.5 inch or 2.5 inch SAS 6 Gb/s
I/O Module	Connector Type IPass (mini-SAS) Number of Ports Two (one IN, other is OUT)
D2700 Disk Enclosure	2U Rack Form Factor Dimensions (HxWxD) 3.47 x 17.99 x 22.3 in (8.8 x 45.0 x 56.7 cm) Weight (base unit) 38 lb (17.2 kg) Weight (with all drives) 50 lb (22.6 kg)

Technical Specifications

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