



Manage your growing storage needs

HP D2000 Disk Enclosures—6 Gb SAS low-cost external storage

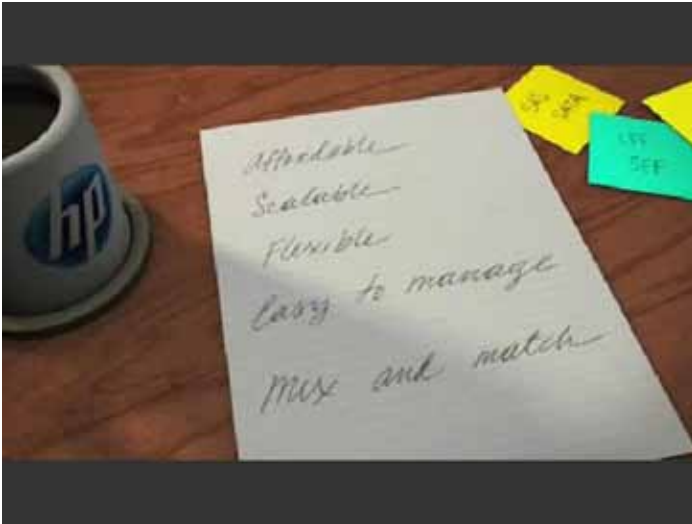


Is your storage growing by leaps and bounds, exceeding your current system capacity?

Manage your small and midrange business's growing storage needs by deploying the HP D2000 Disk Enclosures, the next-generation 6 Gb SAS low-cost, flexible, tiered external storage system. The D2000 Disk Enclosures are ideal for small application environments in small and medium businesses, remote offices, and departmental locations.

The new 6 Gb SAS enclosures—large form factor (LFF) HP D2600 Disk Enclosure with 12 drive bays and small form factor (SFF) HP D2700 Disk Enclosure with 25 drive bays—offer modular

solutions to simplify the capacity expansion of HP ProLiant, BladeSystem, and Integrity servers environments to external storage without having to make the full move to SAN or NAS, allowing you to buy storage that is needed today, and purchase additional capacity as needs grow. The D2700 Disk Enclosure is also supported when attached to a HP P2000 G3 Modular Smart Array System family. Blade 6 Gb SAS connectivity is also enabled using an HP SAS BL Switch and the D2000 Disk Enclosures. Total support can grow up to 96 LFF or 200 SFF drives as needed.



The HP D2000 Disk Enclosures allow you to purchase storage based on need and future growth, and provide hassle-free expansion with little IT expertise required, click the figure to know more.

Key features and benefits

Affordable storage

- Enable a single controller port to incorporate four lanes in a 6 Gb environment, for a total maximum throughput of 24 Gb/s for SAS, vs. 12 Gb/s for 3 Gb SAS
- Allow customers to purchase based on current need and future growth, without hidden management charges
- Support for enterprise-class dual-port SAS drives as the need and budget dictates
- Provide higher levels of redundancy and reliability—by lowering single points of failure within a storage network

Flexible and scalable

- The D2000 Disk Enclosure provides flexibility to mix and match SAS, SATA, and solid state drives in the same enclosure, and extends benefit of tiered storage to direct-attach customers.
- The D2600 LFF can grow up to 96 drives—up to four LFF enclosures can be connected together from a single controller port.
- The D2700 SFF can grow up to 200 drives—up to four SFF enclosures can be connected together from a single controller port.
- New Gen8 Smart Array Controller supports the mixing of the D2600 and the D2700 Disk Enclosures for expansion. Supports four D2600 and four D2700 Disk Enclosures (4xLFF and 4xSFF), allowing for expansion up to 148 drives.

Easy to manage

- The D2000 Disk Enclosures use familiar HP ProLiant management tools including HP Systems Insight Manager and the HP Array Configuration Utility (ACU) software.
- The D2000 Disk Enclosures are compatible with selected HP Smart Array SAS Controllers. Blade 6 Gb SAS connectivity is enabled using an HP 6Gb SAS BL Switch and the D2000 Disk Enclosures.
- The D2000 Disk Enclosures require little IT expertise.

Technical specifications

Chart subtitle describes chart contents.

D2600 Disk Enclosure



D2700 Disk Enclosure



Model differentiator	LFF drive enclosure	SFF drive enclosure
Drive description	(12) LFF SAS/SATA Supported	(25) SFF SAS/SATA/SSD Supported
Type of drives	<p>SAS 300 GB 6G 15K LFF Dual-port ENT SAS</p> <p>450 GB 6G 15K LFF Dual-port ENT SAS</p> <p>600 GB 6G 15K LFF Dual-port ENT SAS</p> <p>SAS MDL</p> <p>1 TB 6G 7.2K LFF Dual-port MDL SAS</p> <p>2 TB 6G 7.2K LFF Dual-port MDL SAS</p> <p>3 TB 6G 7.2K LFF Dual-port MDL SAS</p> <p>SATA</p> <p>500 GB 3G 7.2K LFF MDL SATA</p> <p>1 TB 3G 7.2K LFF MDL SATA</p> <p>2 TB 3G 7.2K LFF MDL SATA</p> <p>3 TB 3G 7.2K LFF MDL SATA</p>	<p>SAS 146 GB 6G 10K SFF Dual-port ENT SAS</p> <p>300 GB 6G 10K SFF Dual-port ENT SAS</p> <p>450 GB 6G 10K SFF Dual-port ENT SAS</p> <p>600 GB 6G 10K SFF Dual-port ENT</p> <p>SAS 900 GB 6G 10K SFF Dual-port ENT SAS</p> <p>72 GB 6G 15K SFF Dual-port ENT SAS</p> <p>146 GB 6G 15K SFF Dual-port ENT</p> <p>300 GB 6G 15K SFF Dual-port ENT SAS</p> <p>SAS MDL</p> <p>500 GB 6G 7.2K SFF Dual-port MDL SAS</p> <p>1 TB 6G 7.2K SFF Dual-port MDL SAS</p> <p>SATA</p> <p>1 TB 3G 7.2K SFF MDL SATA</p> <p>SSD</p> <p>200 GB 6G SLC SFF ENT SAS</p> <p>400 GB 6G SLC SFF ENT SAS</p> <p>200 GB 6G MLC SFF ENT SAS</p> <p>400 GB 6G MLC SFF ENT SAS</p> <p>800 GB 6G MLC SFF ENT SAS</p>
Capacity	36 TB maximum Depending on the drive type	25 TB maximum Depending on the drive type
Storage expansion options	1+3 cascading off a single x4 SAS port	1+1 or 1+3 cascading off a single x4 SAS port depending on the smart array controller
Host interface	6 Gb/s SAS	6 Gb/s SAS
Storage controllers	<p>HP Smart Array P212/256 MB BBWC</p> <p>HP Smart Array P411/256 MB BBWC</p> <p>HP Smart Array P411/512 MB BBWC</p> <p>HP Smart Array P411/1 GB FBWC</p> <p>HP Smart Array P812/1 GB FBWC</p> <p>HP Smart Array P222/512 FBWC</p> <p>HP Smart Array P421/1 GB FBWC</p> <p>HP Smart Array P421/2 GB FBWC</p> <p>HP Smart Array P711m controller (for BladeSystem c-Class Enclosures)</p> <p>HP 6Gb SAS BL Switch for BladeSystem c-Class enclosures Supported</p>	<p>HP Smart Array P212/256 MB BBWC</p> <p>HP Smart Array P411/256 MB BBWC</p> <p>HP Smart Array P411/512 MB BBWC</p> <p>HP Smart Array P411/1 GB FBWC</p> <p>HP Smart Array P812/1 GB FBWC</p> <p>HP Smart Array P222/512 FBWC</p> <p>HP Smart Array P421/1 GB FBWC</p> <p>HP Smart Array P421/2 GB FBWC</p> <p>HP Smart Array P711m controller (for BladeSystem c-Class Enclosures)</p> <p>HP 6Gb SAS BL Switch for BladeSystems Supported</p>
HP Systems Insight Manager support	Yes	Yes
Supported operating systems	<p>Microsoft® Windows® 2003</p> <p>Microsoft Windows 2008</p> <p>Novell NetWare</p> <p>Red Hat Linux</p> <p>SUSE Linux</p> <p>VMware</p> <p>Microsoft Hyper-V</p> <p>HP-UX</p> <p>Supported depending on the controller</p>	<p>Microsoft Windows 2003</p> <p>Microsoft Windows 2008</p> <p>Novell NetWare</p> <p>Red Hat Linux</p> <p>SUSE Linux</p> <p>VMware</p> <p>Microsoft Hyper-V</p> <p>HP-UX</p> <p>Supported depending on the controller</p>
Form factor	2U	2U
Warranty	3-years part, 0-year labor, 0-year onsite support	3-year parts, 0-year labor, 0-year onsite support
QuickSpec URL	hp.com/products/quickspecs/13404_div/13404_div.pdf	



Service and support

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HP services

HP Technology Services—consultants and support experts to solve your most complex infrastructure problems. We help keep your business running, no matter what. Boost availability and avoid downtime, trust our expertise to enhance your HP solution.

Recommended services

- **3-Year HP Support Plus 24 Service**—For a higher return on your storage technology, this 3-year combined reactive support option delivers integrated onsite hardware/software support services available 24x7.
- **HP Installation Service**—provides for the basic installation of your all-in-one storage system, including installation of hardware and software.
- **HP Proactive Select Service**—improves IT performance and manageability through the use of cost effective flexible proactive services.

Related services

- **3-Year HP Support Plus 24**—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.

Trust the Services professionals at HP; for more information, visit: hp.com/services/storage

