

# HP StorageWorks XP1024 Disk Array

Data sheet



The HP StorageWorks XP1024 Disk Array supports up to 1,024 disk drives in a remarkably small footprint, providing up to 149 TB of raw storage capacity. The XP1024 Disk Array uses an advanced crossbar fault-tolerant architecture, resulting in outstanding levels of random and sequential I/O operations for database, OLTP, SAP, Oracle®, and messaging workloads.

The XP1024 Disk Array supports heterogeneous connectivity, including HP-UX, Microsoft® Windows®, Linux®, Tru64, OpenVMS, NonStop, and Mainframe operating systems. The XP1024 Disk Array also supports array-to-array local and remote copying of data, enabling two- and three-site disaster-tolerant configurations. When one array becomes unavailable due to a disaster, the

HP StorageWorks XP1024 Disk Array is a state-of-the-art storage solution that delivers outstanding performance, reliability and availability. No-single-point-of-failure and non-disruptive online upgrades ensure that data is “always available.” The scalable design allows organizations with high storage capacity and continuing growth expectations to meet needs today and tomorrow.

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data is still available from the other array in a remote location. World-class service and support offerings meet the most demanding storage needs, including storage consolidation and disaster recovery applications.

**Key features and benefits**

- **Manageable:** Manages many arrays from a single web-based management station
- **Upgradeable:** Scales from 9 drives to 1,024 drives, four drives at a time, with no interruptions to applications or hosts
- **Serviceable:** Replaces any component online with no interruption to applications or hosts
- **Reliable:** Provides extreme reliability and availability with redundant hot-replaceable processors, I/O interfaces, power supplies, batteries, and control processors

- **Open:** Supports multiple operating systems, including HP-UX, Linux, Microsoft Windows, HP OpenVMS, HP Tru64, Sun Solaris, IBM AIX, Novell NetWare, SGI IRIX, NonStop, and Mainframe
- **Flexible:** Supports a mixture of disk drives, RAID levels and 1-2 Gbit/sec Fibre Channel (FC), iSCSI, FICON, and ESCON host connections
- **Scalable:** Scales up to 1,024 disk drives or over 149 TB of storage capacity in a single array to accommodate growing storage needs
- **Cost-effective:** Increases productivity with higher throughput speeds, zero downtime, a compact footprint, and ease of management

## HP StorageWorks XP1024 Disk Array



<b>Number of disk drives</b>	9–1,024 in 2 to 5 cabinets
<b>Disk drives</b>	36 GB (15K rpm), 73 GB (10K rpm), 73 GB (15K rpm), 146 GB (10K rpm), 300 GB (10K rpm)
<b>RAID level</b>	RAID 1 (2D+2D, 4D+4D) and RAID 5 (3D+1P, 7D+1P)
<b>Maximum number of LDEVs</b>	8,192
<b>Capacity</b>	288 GB to 149 TB (raw) 144 GB to 129 TB (usable)
<b>Cache memory</b>	4 GB to 128 GB
<b>Cache memory battery backup time</b>	48 hours, minimum
<b>Shared memory</b>	512 MB to 4 GB
<b>Shared memory battery backup time</b>	7 days, minimum
<b>Connectivity</b>	Fibre Channel, iSCSI, FICON, and ESCON
<b>Maximum number of FC ports</b>	64
<b>Maximum number of ACP pairs</b>	4
<b>Operating systems</b>	HP-UX, Microsoft Windows, Linux, OpenVMS, Mainframe, Tru64, NonStop, Netware, Solaris, AIX, IRIX
<b>Data transfer rate (FC)</b>	Up to 200 MB/s per FC port
<b>Random I/Os per second</b>	Up to 500K IOPs
<b>Sequential data transfer rate</b>	Up to 2.0 GB/s (cache avoidance) Up to 3.2 GB/s (100% cache hits)
<b>Dimensions (HxWxD)</b>	Disk control frame: 73.2 x 30.8 x 31.5 in / 1,860 x 782 x 800 mm Disk array frame: 73.2 x 29.6 x 31.5 in / 1,860 x 750 x 800 mm
<b>Accessories</b>	An extensive list of accessories is available for this product; for more information, please contact your HP sales representative.
<b>Safety</b>	This product meets all applicable safety and regulatory specifications.
<b>Software</b>	HP StorageWorks Command View XP HP StorageWorks LUN Configuration & Security Manager XP HP StorageWorks LUN Security XP HP StorageWorks LUN Security XP Extension HP StorageWorks Secure Path XP HP StorageWorks Auto Path XP HP StorageWorks Cache LUN XP HP StorageWorks Performance Advisor XP HP StorageWorks Auto LUN XP HP StorageWorks Application Policy Manager XP HP StorageWorks Resource Manager XP HP StorageWorks Data Exchange XP HP StorageWorks Business Copy XP HP StorageWorks Continuous Access XP/XP Extension HP StorageWorks Cluster Extension XP HP StorageWorks Fast Recovery Solution HP Storage Essentials HP OpenView Storage Area Manager HP OpenView Storage Data Protector HP OpenView Storage Media Operations

# HP StorageWorks XP1024 Disk Array

## Ordering information

Product number	Product name	Description
A7905A	HP StorageWorks XP1024 Disk Array	For new XP1024 Disk Array orders
A7873A	HP StorageWorks XP1024/XP128 Upgrade	For XP1024 upgrade orders

## What's included

XP1024 Disk Array frame, XP1024 Disk Array control frame with 4 GB cache, 512 MB shared memory, high-performance ACP pair, redundant power supplies for up to 4 CHIP + ACP pairs, FC cable set for DKU frame position R1, HP Continuous Track XP, modem, pcAnywhere, owner's guide manual, XP operating system configuration guide CD, front door name plate, CD pocket, ESD wrist strap, RAID Manager library, and other ordered accessories

## Warranty and support

- Site preparation
- Array installation and either startup
- Proactive 24 Support, one (1) year
- Reactive hardware support, 24 x 7, two (2) years
- Software support, one (1) year (included with software title)
- An extensive list of optional services tailored for XP disk arrays are available; please contact your HP sales representative.

## Financial services

HP Financial Services provides innovative financing and financial asset management programs to help you cost-effectively acquire, manage, and ultimately retire your HP solutions. For more information on these services, please contact your HP sales representative, or visit: [www.hp.com/go/hpfinancialservices](http://www.hp.com/go/hpfinancialservices)

## For more information

For more information on HP StorageWorks disk array software, contact any of our worldwide sales offices, or visit: [www.hp.com/go/storageworks/software](http://www.hp.com/go/storageworks/software)

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