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.

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.

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
The HP StorageWorks XP1024 Disk Array also supports array-to-array local and remote copying of data, enabling two- and three-site disaster-tolerant configurations.

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

The HP StorageWorks XP1024 Disk Array also supports array-to-array local and remote copying of data, enabling two- and three-site disaster-tolerant configurations.
### Technical specifications

**HP StorageWorks XP1024 Disk Array**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of disk drives</td>
<td>9–1,024 in 2 to 5 cabinets</td>
</tr>
<tr>
<td>Disk drives</td>
<td>36 GB (15K rpm), 73 GB (10K rpm), 73 GB (15K rpm), 146 GB (10K rpm), 300 GB (10K rpm)</td>
</tr>
<tr>
<td>RAID level</td>
<td>RAID 1 (2D+2D, 4D+4D) and RAID 5 (3D+1P, 7D+1P)</td>
</tr>
<tr>
<td>Maximum number of LDEVs</td>
<td>8,192</td>
</tr>
</tbody>
</table>
| Capacity                       | 288 GB to 149 TB (raw)  
144 GB to 129 TB (usable)       |
| Cache memory                   | 4 GB to 128 GB                                                         |
| Cache memory battery backup time| 48 hours, minimum                                                     |
| Shared memory                  | 512 MB to 4 GB                                                         |
| Shared memory battery backup time| 7 days, minimum                                                      |
| Connectivity                   | Fibre Channel, iSCSI, FICON, and ESCON                                 |
| Maximum number of FC ports     | 64                                                                     |
| Maximum number of ACP pairs    | 4                                                                     |
| Operating systems              | HP-UX, Microsoft Windows, Linux, OpenVMS, Mainframe, Tru64, NonStop, Netware, Solaris, AIX, IRIX |
| Data transfer rate (FC)        | Up to 200 MB/s per FC port                                             |
| Random I/Os per second         | Up to 500K IOPs                                                        |
| Sequential data transfer rate  | Up to 2.0 GB/s (cache avoidance)  
Up to 3.2 GB/s (100% cache hits) |
| Dimensions (HxWxD)             | 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 |
| Accessories                    | An extensive list of accessories is available for this product; for more information, please contact your HP sales representative. |
| Safety                         | This product meets all applicable safety and regulatory specifications. |
| Software                       | 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 |
Ordering information

<table>
<thead>
<tr>
<th>Product number</th>
<th>Product name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A7905A</td>
<td>HP StorageWorks XP1024 Disk Array</td>
<td>For new XP1024 Disk Array orders</td>
</tr>
<tr>
<td>A7873A</td>
<td>HP StorageWorks XP1024/XP128 Upgrade</td>
<td>For XP1024 upgrade orders</td>
</tr>
</tbody>
</table>

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

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
- For more information on HP StorageWorks XP1024 Disk Array, contact any of our worldwide sales offices, or visit: www.hp.com/go/storage