The HP StorageWorks xp1024 disk array delivers state-of-the-art architecture, software and solutions. It accommodates the highest number of disks of any disk array available, offering up to 149 TB of storage capacity. Plus, the xp1024 disk array supports heterogeneous connectivity, including HP-UX, Microsoft® Windows®, Solaris, AIX and Linux.

The xp1024 disk array uses advanced crossbar fault-tolerant, redundant architecture optimizing performance for a broad set of applications. No single-point-of-failure and non-disruptive online upgrades ensure that the infrastructure is “always on, always available.” And now, OpenV emulation allows users to configure the xp1024 disk array quicker and easier than ever before.

Because the xp1024 accommodates the highest number of disk drives of any disk array available, in a remarkably small footprint, it meets the storage needs of today and those of tomorrow.

key features and benefits

controllable

• manageable: manages many arrays from a single web-enabled console

• upgradeable: scales from 8 drives to 1024 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

resilient

• reliable: provides extreme reliability and availability with redundant hot replaceable processors, I/O interfaces, power supplies, batteries and control processors

extensible

• open: supports multiple operating systems, including HP-UX, Linux, Microsoft Windows 2000, HP OpenVMS, HP Tru64, NetWare, IRIX and mainframes

• flexible: supports mixed disk environments and is backward compatible with 1-2 Gb Fibre Channel, FICON and ESCON

• scalable: scales up to 1024 disk drives or over 130 TB of usable storage capacity in a single array to accommodate growing storage needs

what’s new

• new disk type, 146 GB 10Krpm, allows over 130 TB of usable storage capacity

• OpenV (Variable Lun Size)

• continuous access over ESCON
technical specifications

- maximum number of disk drives: 1,024
- RAID level: RAID 5/RAID 1
- maximum number of LDEVs: 8,192
- cache memory: 2 GB to 64 GB
- cache memory battery backup time: 48 hours, minimum
- shared memory: 512 MB to 3 GB
- shared memory battery backup time: 7 days
- data transfer rate (FC): up to 200 MB/sec per FC interface
- maximum random I/O per second: up to 450K
- maximum sequential data transfer rate: 2 GB/sec (cache avoidance); 3.7 GB/sec (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
- maximum number of FC ports: 64
- maximum number of ACP pairs: 4
- accessories (with product numbers): 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

solution components

- disk arrays:
  - HP StorageWorks Disk Array xp
  - HP StorageWorks Virtual Array
  - HP StorageWorks tape libraries
  - www.products.storage.hp.com/eprise/main/storage/DisplayPages/automatedbackup
- software:
  - HP StorageWorks Business Copy XP
    - www.hp.com/products1/storage/products/disk_arrays/xpstoragesw/
  - HP StorageWorks Business Copy VA
    - www.hp.com/products1/storage/products/disk_arrays/xpstoragesw/
  - HP StorageWorks Cluster Extension XP
    - www.hp.com/products1/storage/products/disk_arrays/xpstoragesw/
  - HP MetroCluster, Continental Clusters
    - www.hp.com/products1/unix/highavailability
  - HP Campus Cluster
    - www.hp.com/products1/unix/highavailability
  - HP StorageWorks Continuous Access XP
    - www.hp.com/products1/storage/products/disk_arrays/xpstoragesw/
  - HP StorageWorks Auto Path for Disk Array xp
    - www.hp.com/products1/storage/products/disk_arrays/xpstoragesw/
  - HP StorageWorks Auto Path for Virtual Array
    - www.hp.com/products1/storage/products/disk_arrays/xpstoragesw/
- backup software:
  - HP OpenView Omniback II
    - www.managementsoftware.hp.com/products/omniback
  - VERITAS NetBackup
- consulting services:
  - HP OpenView Omniback II
    - www.managementsoftware.hp.com/products/omniback
  - VERITAS NetBackup
- support services:
  - www.hp.com/hps/sol
  - support services:
    - www.hp.com/hps/storage

ordering information

<table>
<thead>
<tr>
<th>product number</th>
<th>product name</th>
<th>description</th>
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<tbody>
<tr>
<td>A7906A</td>
<td>xp1024 disk array control frame</td>
<td>xp1024 disk array control frame with 2 GB cache, 512 MB shared memory, redundant power supplies for CHIP pairs 1–2; FC cable set for DKU frame position, R1, basic ACP pair, HP microcode, HP Continuous Track XP, modem, and pcAnywhere</td>
</tr>
<tr>
<td>A7925A</td>
<td>xp1024 disk array frame</td>
<td>disk array frame (minimum 1 position R1, maximum 4)</td>
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</tbody>
</table>

what’s included

- xp1024 disk array frame, xp1024 disk array control frame with 2 GB cache, 512 MB shared memory, redundant power supplies for CHIP pairs 1–2; FC cable set for DKU frame position, R1, basic ACP pair, HP microcode, 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

- warranty features -
  - site preparation and hardware installation
  - LUN Design and Configuration
  - 2 years of reactive Storage Critical Support on hardware (24x7)
  - 1 year of proactive Storage Critical Support

for more information

For more information on HP StorageWorks xp1024 disk array, contact any of our worldwide sales offices or visit our web site at: www.hp.com/go/storage