

hp surestore disk array xp48

the world's best high-availability storage solution gets even better— and smaller

big news in stress-free storage

Your data storage needs keep growing. But your physical space—and your budget—remain the same. Sound familiar? Now you can solve both problems at once the easy way—with HP's xp48.

The new HP Surestore Disk Array xp48 delivers high-end datacenter features in a small, efficient package. Get all the ultra-high-reliability disk storage you need—starting from just 72 GB and scaling easily all the way to 3.5 TB. All in a single cabinet so small, it's unprecedented.

The xp48 makes your life easier in four ways:

- It's **compact**, saving your valuable floor space.
- It's **fast**, delivering a unique combination of explosive performance and ultra-high-reliability.
- It's **simple**, with HP's unique time-saving storage management software.
- And it's **open**, making it ideal for heterogeneous environments.

So whether you're building a storage infrastructure your business can grow into, adding an economical mirror for a larger array, or populating a co-location facility, don't worry; HP can take care of all your data storage needs.

Get the stress-free storage solution that fits your needs with HP.



features	benefits
Compact single-cabinet design	Delivers high-end array features while using less datacenter floorspace and power
RAID 0/1 and RAID 5 support	Optimizes storage performance
Super-high-reliability 18 GB and 73 GB 10,000 RPM Fibre Channel Drives	Provides choice, scalability, and reliability to fit your capacity requirements
Fibre Channel, ESCON, and FWD-SCSI¹ connectivity	Supports a wide range of Open Systems and mainframe host connectivity as well as key data mirroring and disaster recovery needs
Battery-protected mirrored write cache	Ensures all data written to your xp48 is safe—no matter what
24/7/365 Proactive Support	Identifies and resolves problems before they occur

¹ Via a Fibre Channel to FWD-SCSI bridge



stress-free

concentrate

The xp48 brings all the benefits of storage consolidation to businesses that could never afford them before. Whether you're doing remote data-center disaster recovery, storage consolidation, or datamarting, you need scalable, fast, reliable storage. With an HP Surestore disk array, you solve your future needs, increase performance, improve availability, and get more control while spending less time and money on management.

economies of scale

The uniquely compact xp48 saves money and floor space. And as you need to, you can easily scale the array from 72 GB all the way to 3.5 TB—without ever taking it down.

work well with others

Your xp48 is compatible with the technology you have now—and what you might want in the future. So whether you use technology from HP or companies like Sun, Compaq/DEC, Novell, SGI, and IBM, to providers like STK, Brocade, Ancor, Emulex, and you're covered.

Fast, easy, secure data access across multiple mainframe and heterogeneous UNIX, HP MPE, multi-vendor Windows NT, Windows 2000, and other open systems makes your xp48 a multi-platform solution for storage consolidation, OLTP, data warehousing, enterprise backup and restore, and disaster recovery. Broad Microsoft certification assures compatibility and uptime in Windows NT and Windows 2000 environments.

And of course, the xp48 is fully compatible with the complete suite of HP software that's proven so effective for xp512 and xp256 owners. For example, use of HP Continuous Access XP software makes the xp48 a perfect low-cost mirror for either of HP's larger arrays.

hp puts the solid in consolidation

You can trust HP to protect your most valuable data at every possible step. Everything about the xp48—the components, architecture, software, service, and support—was chosen to make your xp48 the most reliable disk array you can buy:

- Ultra-high-reliability Fibre Channel disk drives
- Fault-tolerant, redundant architecture
- Continuous self-monitoring and repair
- Battery-protected mirrored write cache
- Two-year onsite emergency response warranty
- Proactive "Phone Home" capability lets our support staff continuously monitor your system remotely, alerting you of problems before they happen



storage

disk array xp48

management: broad, simple, powerful

HP's integrated software portfolio uniquely solves your critical IT management issues. It delivers powerful disaster recovery capabilities and zero impact, zero downtime backup and restore solutions. And a common Web-based Graphical User Interface (GUI) makes it easy to move to another application or workstation.

The powerful Web-based management platform lets you manage your data anytime, from anywhere. Intelligent SAN management software provides centralized monitoring and management of SAN infrastructure and your XP Disk Arrays. And secure LUN Management software provides secure, SAN-based data management for a wide range of open systems platforms.

the ultimate uptime promise

The xp48 combines online firmware upgrades and hot-pluggable PC boards to eliminate planned downtime. And it has ultra-high availability disk drives and a fault-tolerant, redundant architecture with no single point-of-failure, to minimize the unplanned downtimes as well. Your xp48 is "always up, always available"—even as you scale your system to meet new business needs.

at your service

Remote, "phone home" capabilities detect and fix problems before they occur. HP offers comprehensive expert support and consulting services spanning your server,

SAN, and storage requirements. Only HP has the proven experience and expertise with datacenter storage solutions to meet your needs today and in years to come.

get off to a great start

Your storage system starts with the disk array. The xp48 offers a larger amount of faster, more reliable storage than has ever been available in a space this small. Your journey to stress-free storage starts when you get an HP Surestore disk array xp48.



specifications

Client Host Interface Processor (CHIP)

Number of CHIP pairs	1, 2, or 3
Simultaneous data transfers per CHIP pair	4 or 8
Host interfaces per CHIP pair	4 or 8

Host Interfaces per subsystem

Maximum	24
ESCON Adapters	0-24
FWD SCSI (via bridge)	0-24
Fibre Channel	0-24

Transfer Rates (MB/Sec)

Extended Serial Adapters	17 MB/s
FWD-SCSI	20 MB/s
Fibre Channel	100 MB/s

Non-Volatile Cache

2-16GB

Array Controller Processor (ACP)

ACP pairs (included with the xp48 frame)	1
Physical FC-AL loops per ACP	8
Physical FC-AL loops per system	8

Spare Drives

Spare drives per subsystem (maximum) 4

Hard Disk FC Drives

Capacity	18 GB	73 GB
Head Technology	MR	MR
Form Factor	1.6 in	1.6 in
Actuator	Recoilless rotary	Recoilless rotary
Servo system	Digital	Digital
Interface	Dual Ported FC	Dual Ported FC
Rotation Speed	10,025 RPM	10,025 RPM
Data Transfer Rate	30-46 MB/sec	30-46 MB/sec
Average Seek Time	5.2-6.0 ms	5.7-6.5 ms
Average Latency Time	2.99 ms	2.99 ms

Operating System Support

Open Systems Server Connect*

HP-UX	HP-MPE/iX	Sun Solaris
Compaq/DEC Tru64	IBM AIX	Novell NetWare
IBM DYNIX	SGI IRIX	Windows NT
Windows 2000	Red Hat Linux	
Open VMS	And many more	

Mainframe Connectivity

IBM system 370 and 390 compatible mainframes from IBM, Hitachi, and Amdahl

Mainframe Operating System Support includes:

OS/390	MVS/ESA	MVS/XA
MVS/370	VM/ESA	VM/XA
VM/HPO	VSE/ESA	VSE/SP(4.1)

Physical Specifications

xp48 Frame

Height	1,790 mm (70.5 in.)
Width	700 mm (28.0 in.)
Depth	800 mm (31.5 in.)
Weight	427 kg. (939.4 lbs.)
Heat	1.28 kW
Power	1.48 kVA

* Contact sales office for availability of any given OS or configuration listed above.

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