

Disk Array XP256



Product HP SureStore E Disk Array XP256

The New HP SureStore E Disk Array XP256.
The World's Best Storage Solution Just Got Better

Now With More Capacity, Performance & Choice
Introducing the new HP SureStore E Disk Array XP256, the most highly-available, multi-platform enterprise-class disk array on the market, providing centralized control of your data across multiple server platforms - making it available when, where and how it's needed. With virtually zero downtime and even less hassle. No matter where your data comes from, we can store more of it than ever before.

The Leader in Enterprise-Class Connectivity, Capacity & Scalability
The XP256 offers a wide range of options for server connectivity, including mainframe, open-system UNIX®, and Intel-based solutions, to allow many types of I/O architectures to be used. The hassle-free, modular storage brings economic, multi-terabyte scalability – 60 GB up to 11 TB – to your SAN, while the no-penalty cache architecture allows 100% of cache memory to be dedicated to your critical application workload.

Powerful, Centralized Management & Business Continuance Capabilities
A comprehensive suite of configuration and performance management software products including remote management, performance, security and balancing capabilities give you the ability to easily and cost-effectively manage your enterprise storage while guaranteeing the availability of your most important corporate asset: your data! Industry-leading internal data mirroring capabilities support any backup or data availability requirements. And advanced remote mirroring products support long distance data mirroring and disaster recovery solutions using standard ESCON technology to provide data security, performance and currency. And Continuous Access XP provides exceptionally reliable, high-speed data transfer over unlimited WAN distances for disaster recovery.

Features	Benefits
No Single Point of Failure, Non-Disruptive Upgrades, & Multi-Terabyte Scalability without Downtime	Ensure data accessibility for an "Always Up – Always Available" storage experience.
RAID 1 and RAID 5 support	Optimizes storage performance.
Open, Secure SAN Management	Gives you the ability to easily and cost-effectively manage your enterprise storage while guaranteeing the availability of your data assets within the Open HP Equation SAN architecture.
Broad Multi-Vendor Server Connectivity	Assure continuity and access and upgradeability of your storage system.
Super High-Reliability 15, 36, and 47 GB Drives	For choice, scalability and reliability to fit your capacity requirements.
Support for Fibre Channel, SCSI and ESCON Host Connectivity	Supports all your datacenter needs, from consolidation and long distance data mirroring to disaster recovery and beyond.
Battery-Protected, Mirrored Write Cache	Ensures all data written to an XP256 is safe – no matter what.
24/7/365 Proactive Support	Identifies and resolves problems before they occur.
Broad Software Suite	Offers management, high availability and remote monitoring capabilities.
Hot Plug Components & Online No-Impact Firmware Upgrades	Eliminates planned and unplanned downtime.
Full Investment Protection	Eliminates "forklift" upgrades, and allows multiple drive generations within the same frame.



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Protection for Your Future Investments

Not only does the XP256 support new lower-cost generations of disk technology in existing frames, but its modular disk upgradeability reduces the need for troublesome "forklift" upgrades as capacity needs grow. Fast, easy, secure data access across multiple mainframe and heterogeneous UNIX, HP MPE, multivendor and other open systems provides a robust multi-platform solution for storage consolidation, OLTP, data warehousing, enterprise backup and restore, and disaster recovery.

Broad Microsoft Windows NT® and Windows 2000 certifications assure compatibility and uptime in Windows environments. Full integration into the HP Equation storage architecture ensures open, secure SAN management – including support for HP-UX, Sun Solaris, IBM AIX and multi-vendor NT backup and restore solutions designed to avoid impact on operations.

The Ultimate Uptime Assurance

Fault-tolerant, redundant architecture ensures there is no single point-of-failure, so your data is available when you need it. Online firmware upgrades and Zero Downtime Backup solutions virtually eliminate planned downtime. Proven ultra-high availability disk drives guarantee superior uptime. And availability and reliability for an "Always up - Always Available" storage system gives you data access anytime while Non-Disruptive Upgrades and Addition Capabilities for both hardware and firmware allow you to use your system to meet new business needs.

Proactive 365 x 24 Operational Support

Remote, "phone home" capabilities detect and fix problems - before they occur. We offer comprehensive support and consulting services spanning your server, SAN and storage requirements.

HP's Proven Experience

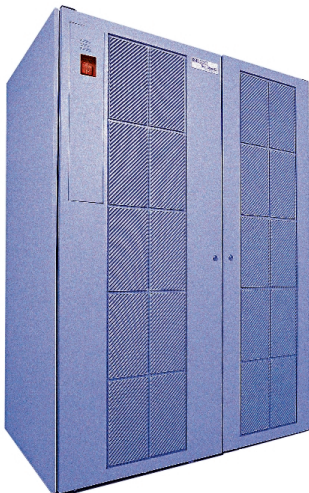
Only HP has the experience and expertise to develop any scale of datacenter storage solutions to meet your specific needs - today and in years to come.

Product

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XP256 Technical Specifications

Control Frame		Array Control Processors (ACP)	
Client Host Interface Processor (CHIP) pairs	1,2,3 or 4	ACP pairs	1,2,3 or 4
Host Interfaces per subsystem		Physical FWD-SCSI busses per ACP pair	8
ESCON	0-32	Maximum Physical FWD-SCSI per array	32
SCSI-2 FWD or ULTRA	0-32	Transfer rate	
Fibre Channel	0-16	Per FWD-SCSI bus	20 MB/sec
Transfer Rates (MB/sec)		Per ACP pair	up to 160 MB/sec
ESCON	17	Internal XP256 bus bandwidth	744 MB/sec
FWD/Ultra-SCSI interfaces	20/40	Array Frame	
Fiber Channel	100	Disk frames per subsystem	1,2,3 or 4
Nonvolatile Cache		Spare drives per subsystem (recommended minimum)	1 drive per capacity installed
1 GB - 16 GB		Spare drives per subsystem (maximum)	8
Disk Drives			
Min/Max Array Capacity 60GB/11TB			
Capacity	15 GB	36 GB	47 GB
Head Technology	MR	MR	MR
Form Factor	2.5 in.	3.5 in.	3.0 in.
Actuator	Recoilless rotary	Recoilless rotary	Recoilless rotary
Servo system	Digital	Digital	Digital
Interface	Dual-ported SCSI-2	Dual-ported SCSI-2	Dual-ported SCSI-2
Rotation speed	12,030 RPM	6,300 RPM	10,000 RPM
Data transfer rate	20 MB/sec	20 MB/sec	20 MB/sec
Average seek time (read/write ms)	5.5/6.5	11.5/12.5	5.5/6.6
Operating System Support			
Open system Server Connect			
HP HP-UX	Microsoft Windows NT and Windows 2000	Mainframe Connectivity	
Sun Solaris	Novell NetWare	IBM System 370 and 390 compatible mainframe from IBM, HDS, Hitachi, and Amdahl.	
IBM AIX	Linux	Mainframe Operating System Support includes:	
Compaq Tru64 Unix	SCO UNIX	OS/390, MVS/ESA, MVS/XA, MVS/370, VM/ESA, VM/XA, VM/HPO, VSE/ESA, VSE/SP(4.1)	
NCR Unix			
Sequent Dynix			
SGI Irix			
HP MPE			
Physical Specifications		Control frame	Array Frame
Height	1,790 mm(70.5 in.)	1,790 mm (70.5 in.)	
Width	750 mm (29.5 in.)	550 mm (21.7 in.)	
Depth	800 mm (31.5 in.)	800 mm (31.5 in.)	
Weight	410 kg (903 lbs.)	422 kg (931 lbs..)	
Heat	1.6 kW	2.0 kW	
Power	1.7 kVA	2.7 kVA	



stress-free

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www.hp.com/go/enterprisestorage

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