

PAC Storage PS 4000

NEXT GENERATION DATA STORAGE

PAC Storage PS 4000 Next Generation is the ultimate of high-performance solutions for enterprises with its unprecedented advantages in performance, flexibility, and high expandability. The PS 4000 supports Intel's advanced CPU platform and reaches up to 10,000MB/s Read and 5,500MB/s Write speed even under high workloads, and are especially suitable for hybrid environments adopting SAN, NAS, and Cloud integration. The PS 4000 is perfect for those who want extreme performance, capacity, and a high port count to effectively boost overall productivity.



KEY FEATURES

- Enterprise-Class Unified Systems
- Integrated SAN/NAS with Cloud Gateway Option
- Dual Active-Active Controllers
- Scalable to 896 SAS, SSD, 10K, 7200NL drives
- Dual Active-Active Controllers
- High Availability & IDR
- No Single Point of Failure
- Centralized GUI Firmware with remote replication, SSD caching, Auto Tiering, Snap Shot, Thin Provisioning, Build in Cloud Gateway
- 3 Year Warranty and Support included and up to 10 years

PAC STORAGE

www.pacstorage.com

APPLICATIONS

Media & Entertainment 	Virtualization CITRIX 	Database 	Surveillance 	Backup 	Exchange
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Symmetric active-active controllers

PAC Storage PS 4000 Next Generation offers symmetric active-active controllers for performance and high availability. Hosts can access the same LUNs simultaneously via both controllers. I/O are more equally distributed across both controllers and all paths, effectively minimizing costly path management time. In the event of a path failure, I/O can automatically continue through the remaining paths with little or no failover.

Infinite Storage Capacity on Cloud

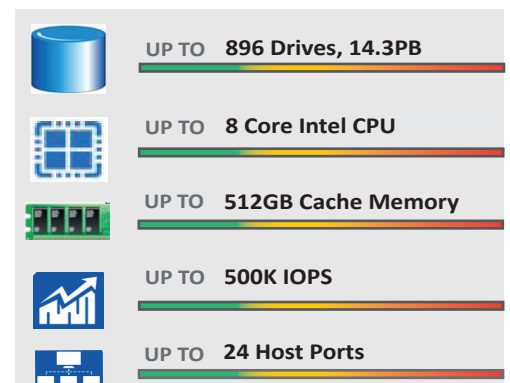
One of the key benefits of cloud storage solutions is the unlimited scalability and flexible "scale on demand" model, which allows you to expand your storage capacity as needed, without upfront investment, to fit your capacity requirements as they evolve. By integrating the Intelligent Gateway Engine and supporting a wide range of both private cloud and public cloud services, the PAC 4000 offers various cloud functions such as Cloud Tiering, Cloud Cache and Cloud Backup to make the most of cloud's advantages. These functions perfectly combine local and cloud storage, automatically and optimally allocating data, while saving setup and maintenance costs in the process.

Comprehensive Data Protection and Security

Security threats are by no means the only concern when it comes to safeguarding data. Unexpected disk failures, natural disasters and power outages all up the risk of data loss. PAC Storage PS4000 Next Generation series ensures that risk is minimal with its integrated backup functions such as Intelligent Drive Recovery (IDR), snapshot, local replication, remote replication, and file-level rsync.

New:

32Gb FC, 25GbE Connectivity
14 & 16 TB Drives
Up to 512GB Cache Memory



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PHYSICAL SPECIFICATIONS		PS 4000			
Controller		Dual-redundant			
Max. SSD cache pool		3.2TB			
Cache backup techniques		Super capacitor+Flash module			
Power supply unit	Power supplies (Redundant/hot-swappable)	(3000/4000): 530W x 2 (80 PLUS Bronze) 1200W x 2 (80 PLUS Platinum)			
CPU		Intel Skylake-D (Xeon-D) 8-Core			
Cache memory (per system)		256GB upgradeable to 512GB			
Max. host board number		4			
Onboard SAS expansion ports		4 x 12Gb/s SAS wide ports			
Onboard iSCSI ports (10GbE SFP+)		8			
Host board ports		4 x 16Gb/s FC ports	2 x 32Gb/s FC ports	2 x 10GbE ports (SFP+)	
		2 x 10GbE ports (RJ-45)	2 x 25GbE ports (SFP28)	2 x 12Gb/s SAS ports	
Note: 1. The two controllers must have identical slot settings. 2. Fiber Channel supports point-to-point and switch mode.					
Host board + onboard ports (max.)		24			
Max logical drives number		32			
Max logical drives capacity		512TB			
Configurable stripe size		16KB, 32KB, 64KB, 128KB, 256KB, 512KB, or 1024KB per logical drive			
Configurable writes policy		Write-Back or Write-Through per logical drive. This policy can be modified.			
Max. pool size		2PB			
Max. pool number		32			
Max. volume size		2PB			
Max. volume number (per pool/per system)		1024			
Max. host LUN mapping number		4000			
Max. reserved tag number per host-LUN connection		Up to 256			
Max. host port connection number (per FC)		24			
File Level	Max. file system size	2PB			
	Max. number of user accounts	20000			
	Max. number of user groups	512			
	Max. number of folder sharing	2048 (NFS/CIFS/FTP) 255 (AFP)			
	Max. number of rsync jobs	1024			
	Max. number of rsync concurrent processes	64			
RAID options	Max. number of concurrent connections (NFS/CIFS/AFP/FTP)	16 GB memory: 200 32 GB memory: 512 64 GB memory: 1024 128 GB memory: 2048			
		RAID 0, 1, 3, 5, 6, 10, 30, 50, 60			
Protocol support		File Level Protocol: CIFS/ SMB: Version 2.0/3.0, NFS: Version 2/3/4, AFP, FTP, FXP, WebDAV Block Level Protocol : FC, FCoE, iSCSI, SAS, InfiniBand Object Level Protocol: OpenStack Swift, RESTful API			
PS Cloud Gateway		Support the integration with following cloud providers: Amazon S3, Microsoft Azure, Alibaba AliCloud, OpenStack, Baidu Cloud, Tencent Cloud and Google Cloud			
PHYSICAL SPECIFICATIONS					
Form factor		2U 12- Bay	2U 25-bay	3U 16-bay	4U 24-bay 4U 60-bay
Supported Drives		2.5" SAS SSDs 2.5" 10,000 RPM SAS HDD 2.5" 15,000 RPM SAS HDD 3.5" 7,200 RPM Nearline SAS HDD			
Dimensions (without chassis ears/protrusions)		447(W) x 88(H) x 500(D) mm	447(W) x 130(H) x 500(D) mm	24-bay 447(W) x 175(H) x 500(D) mm 60-bay 448(W) x 176(H) x 840(D) mm	
SOFTWARE SPECIFICATIONS					
Self-encrypting drives		Unique factory encryption secures data plus makes deletion simple and complete			
Thin Provisioning (default included)		"Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage space			
Local Replication	Snapshot	Snapshot images per source volume	Standard License: 64 / Advanced License: 256		
		Snapshot images per pool	Standard License: 128 / Advanced License: 4096		
Remote Replication(Block level)(optional)	Volume Copy/Mirror	Replication pairs per source volume	Standard License: 4 / Advanced License: 8		
		Replication pairs per system	Standard License: 16 / Advanced License: 256		
			Replication pairs per source volume: 8 Replication pairs per system: 64		
Note: The maximum number of replication pair per source volume is up to 8, regardless of remote asynchronous/remote					
Remote Replication(File Level)		Support Rsync with 128-bit SSH encryption 2 or 4 storage tiers based on drive types			
Automated Storage Tiering(optional)		SSD supports Automated data migration with scheduling options			
SSD Cache(optional)		Accelerating data access for random read-intensive environments, such as OLTP Supports up to four SSDs per controller			
PAC Cloud Gateway	File- level	Cache Mode: A copy of frequently accessed file is kept on a local storage and all files are also uploaded to cloud Sync Mode: Synchronizing files between local storage and cloud.			
	Block- level	Cache Mode: A copy of frequently accessed data is kept on a local storage and all data are also flushed to cloud. Backup Mode: All data are kept on local storage and all data are also flushed to cloud. Tiering Mode: Frequently accessed data is kept on local storage and infrequently accessed data is migrated to cloud			