

PS Gen 3 Features:

High Performance and Scalability

- Massive sequential throughput of up to 16GB/s read and 12GB/s write per appliance
- Scalable up to 896 Drives with recommended up to 4 expansion JBODs for best performance and capacity

Easy to Use and Manage

- Single namespace for easier data access
- Auto-balancing to reduce the burden of storage management for IT staff

High-Density Design

 Reduce hardware footprint with 4U 40/60bay models

Lower Total Cost of Ownership

 Save budgets by using only a few SAS/U.2 NVMe SSDs for cache to reach near all-flash system performance, in both SAN and NAS environments

Nondisruptive Operations

 High Availability with 5 9's uptime ensures non-stop operations with a near-zero RTO (recovery time objective PAC Storage PS Gen 3 packed with Intel's new Ice Lake CPU and new hardware and software features is the ultimate of high-performance solutions for enterprises with its unprecedented advantages in performance, flexibility, and high expandability. Supporting hybrid environments that integrate SAN, NAS, and cloud services, this series includes a wide range of models ready to meet different needs, from performance-hungry applications, general enterprise workloads, to storage solutions requiring a high-density hardware design.

High Performance PS provides high throughput to handle large amounts of I/O and file transfers, even under heavy workloads. The G3 models, which feature high-speed transmission interfaces and protocols, deliver up to 16Gb/s read and 12Gb/s write in throughput on a single appliance.

Simple IT Management Users can access shared folders in a single root directory under a single namespace, without having to worry about where the data is stored. Auto-balancing is also supported to achieve load balancing, which relieves the burden of manual planning and configuration for IT personnel.

Complete Data Protection and Backup PAC Storage's unique RAID technology manages your data to keep it intact in the event of a drive or system failure. With the flexibility of snapshot, you can back up locally by schedule on the PS storage system and revert to a previous version when needed. Remote replication is also available to backup to a remote PS system or to a cloud account utilizing the cloud gateway feature. The object storage function can be used to safeguard against randomware attacks in conjunction with WORM technology. PS storage systems also offer encrypted drives as an option.

Symmetric Active-Active Controllers PAC Storage PS Gen 3 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.

PHYSICAL S	SPECIFICATIONS				
Product Series		PS 3000 G3	PS 4000 G3		
	2U 12-bay	PS 3012R3/S3	PS 4012R3/S3		
	3U 16-bay	PS 3016R3/S3	PS 4016R3/\$3		
	4U 24-bay	PS 3024R3/S3	PS 4024R3/S3		
Form Factor	4U 40-bay	PS 3040RT3/ST3 PS 3040RT3C/ST3C	PS 4040R3/S3 PS 4040R3C/S3C		
	4U 60-bay	PS 3060RT3/ST3 PS 3060RT3C/ST3C	PS 4060R3/S3 PS 4060R3C/S3C		
		Note: S: Single controller, upgradable to dual redundant controllers R: Du C: U.2 SSD cache	ual redundant controllers 3: G3 T: High performance		
Controller		Dual redundant or single upgradable to dual redundant			
ache Backup Techr	nology	Super capacitor + flash module			
PU		Intel® Ice Lake Xeon® D 4-Core Intel® Ice Lake Xeon® D 6-Core			
tasha Mamaru	Single Controller	2U 12-bay/3U 16-bay/4U 24-bay: Default DDR4 8GB Expandable up to 192GB 4U 40-bay/60-bay: Default DDR4 12GB Expandable up to 192GB			
Cache Memory	Redundant Controller	2U 12-bay/3U 16-bay/4U 24-bay: Default DDR4 16GB Expandable up to 384GB 4U 40-bay/60-bay: Default DDR4 24GB Expandable up to 384GB			
Supported Drives		2.5" SAS SSD 2.5" 12Gb/s SAS 10,000 RPM and 15,000 RPM HDD 3.5" 12Gb/s NL-SAS 7,200 RPM HDD 2.5" SATA SSD, 3.5" 6Gb/s SATA 7,200 RPM HDD (for single upgradable to dual controller model only) Bundled 2.5" U.2 NVMe SSD for U.2 SSD cache models			
		Note: For the latest compatibility details, refer to our official website for the	ne latest Compatibility Matrix.		
Max. Drive Number	via expansion enclosure, per appliance	896			
	via scale-out with other series of appliances, per cluster	3584			
Max. SSD Cache Po	ol (Block-level)	4T	В		
Inboard 25GbE Port	ts (SFP28)	4	-		
Onboard SAS Expansion Ports		2			
Max. Host Board Slots		4			
Host Board Options		16Gb/s FC x 4 32Gb/s FC x 2 32Gb/s FC x 4 10GbE (SFP+) x 2 25GbE (SFP28) x 2 12Gb/s SAS x 2			
Max. 16Gb/s FC Ports		10	6		
Max. 32Gb/s FC Por	ts	10	6		
Max. 25GbE Ports (S	SFP28)	12	8		
Max. 12Gb/s SAS Po	orts	8	}		
Expansion Enclosures (JBODs)		2U 12-bay: JB 3012A, JB 3016A, JB 3060L 3U 16-bay: JB 3016A, JB 3060L 4U 24-bay/40-bay/60-bay: JB 3060L			
Dimensions (Without Chassis Ears and Protrusions) $(W \times H \times D)$		2U 12-bay: 449 x 88 x 509.8 mm 3U 16-bay: 449 x 130 x 509.8 mm 4U 24-bay: 449 x 174.6 x 509.8 mm 4U 40-bay: 443.2 x 176 x 735.8 mm 4U 60-bay: 443.2 x 176 x 849.8 mm			
Package Dimensions (W x H x D)		2U 12-bay: 780 x 379 x 588 mm 3U 16-bay: 780 x 423 x 588 mm 4U 24-bay: 780 x 465 x 588 mm 4U 40-bay: 625 x 460 x 1032 mm 4U 60-bay: 620 x 460 x 1140 mm			
Power Supply Unit	Power Supplies (Redundant and Hot-swappable)	2U 12-bay/3U 16-bay/4U 24-bay: 530W x 2 (80 PLUS Bronze, 80 PLUS Gold for EU) 4U 40-bay/60-bay: 1200W x 2 (80 PLUS Platinum)			
	AC Voltage	2U 12-bay/3U 16-bay/4U 24-bay: 100VAC @10A to 240VAC @5A 4U 40-bay/60-bay: 100-127VAC @10A, 200-240VAC @8A			
	Frequency	50-60 Hz			
		Electromagnetic Comp			

SOFTWAR	E SPECIFICATIONS					
Max. Logical Drive Number		30				
Max. Logical Drive Capacity		512TB				
Stripe Size		16KB, 32KB, 64KB, 128KB, 256KB, 512KB, or 1024KB per logical drive				
Write Policy		Write-Back or write-through per logical drive.				
Max. Pool Size		2PB				
Max. Pool Number		30				
Max. Volume Size		2PB				
Max. Volume Number		1024				
Max. Host LUN Mapping Number		4096				
Max. Reserved Tag	Number (per Host-LUN Connection)	256				
Max. iSCSI Initiators (per Controller)		416				
Max. Host Connection Number (per FC)		128				
RAID Options		RAID 0, RAID 1, RAID 3, RAID 5, RAID 6, RAID 10, RAID 30, RAID 50, RAID 60				
	File Level	CIFS/SMB (Version 2.0/3.0), NFS (Version 2/3/4), AFP (Version 3.1.12), FTP/FXP (vsftp 2.3.4), WebDAV (httpd package 2.4.6)				
Supported Protocols	Block Level	FC, iSCSI, SAS				
	Object Level	RESTful API				
	Max. File System Size	2PB				
	Max. Number of User Accounts	20000				
	Max. Number of User Groups	512				
File Level	Max. Number of Shared Folder	2048 (NFS/CIFS/FTP) 255 (AFP)				
	Max. Number of Rsync Jobs	1024				
	Max. Number of Concurrent Rsync Processes	64				
	Max. Number of Connections	2048 (NFS/CIFS/AFP) 1024 (FTP)				
Management		SMI-S standard interface for hypervisor management applications Muti-factor authentication login mechanism Web-based management User account management Group management				
Availability and Reliability		 Immutable object storage Hot-swappable hardware modules Device mapper Antivirus Trunk group Cache safe technology UPS WORM (file level only) SMB Multichannel 				
Efficiency		• Inline compression • Offline deduplication				
Notification		Email SNMP traps				
Applications		Web-based file explorer Proxy server VPN server Docker LDAP server Docker				
Supported Cloud Services		Cloud Gateway supports integration with the following cloud providers: Amazon S3, Microsoft Azure, Alibaba Cloud, OpenStack, Baidu Cloud, Google Cloud, Tencent Cloud, Wasabi Cloud, etc.				
Supported OS		Microsoft Windows Server, Red Hat Enterprise Linux, Mac OS X, VMware. Note: For the latest compatibility details, refer to our official website for the latest Compatibility Matrix.				
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Thin Provisioning Block level		Default	"Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage space.			
File Snapshot		Optional	Snapshot images per folder: 1024			
The emaperior			Default	Snapshot images per source volume: 64	Snapshot images per pool: 128	
Local Replication	Snapshot	Block level	Optional	Snapshot images per source volume: 256	Snapshot images per pool: 4096	
			Default	Replication pairs per source volume: 4	Replication pairs per system: 16	
	Volume Copy/Mirror		Optional	Replication pairs per source volume: 8	Replication pairs per system: 256	
	File level		Default	Rsync with 128-bit SSH encryption		
				Replication pairs per source volume: 8	Replication pairs per system: 64	
Remote Replication		Block level	Optional			
Automated St	orage Tiering		Optional	Storage tiers per pool: 4		
		File level	Default	Appliances per cluster: 1		
Scale-out			Optional	Appliances per cluster: 4		
		Block level	Default	Appliances per cluster: 4		
HA Service Block level Optional Deliv		Delivering continuous availability and eliminating downtime for mission-critical workloads that require non-stop operations				
		File level	Optional	Accelerating file operations and data access performance for both read and write Max. SSD number per controller: 8		
				Accelerating data access in random read-inte Max. SSD number per controller: 4	ensive environments (e.g. OLTP)	
				DRAM: 8GB	Max SSD Cache Pool Size: 0.4TB	
				DRAM: 16GB	Max SSD Cache Pool Size: 0.6TB	
				DRAM: 32GB	Max SSD Cache Pool Size: 1.0TB	
			Optional	DRAM: 64GB	Max SSD Cache Pool Size: 1.6TB	
SSD Cache				DRAM: 128GB	Max SSD Cache Pool Size: 3.2TB	
		Block level				
				DRAM: 8GB	Max SSD Cache Pool Size: 0.5TB	
				DRAM: 12GB	Max SSD Cache Pool Size: 0.75TB	
				DRAM: 16GB	Max SSD Cache Pool Size: 1.0TB	
				DRAM: 24GB	Max SSD Cache Pool Size: 1.5TB	
				DRAM: 32GB	Max SSD Cache Pool Size: 2.0TB	
				DRAM: 48GB	Aax SSD Cache Pool Size: 3.0TB	
				DRAM: 64GB and up	Max SSD Cache Pool Size: 4.0TB	

WARRANTY	AND	SERVICE
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Service and

Support

All PAC Storage products carry 3 years manufacturer's warranty. This warranty is upgradeable up to a maximum of 10 years from the date of purchase. In addition, we offer advanced replacement of any defective parts within the warranty period.

Our Technical Services Team at PAC Storage provides NAS storage and SAN storage support and customer care, including assistance with installation, configuration, warranty, and repair. We offer tech support for the life of your product during the hours 7 am to 7 pm PST Monday through Friday, and our team is on call to assist with any extremely urgent issues. For service support, you may reach out via email: support@pacstorage.com or phone: 949.401.9645