

PAC STORAGE

PAC STORAGE ALL-FLASH NVME FAMILY PRODUCT LINE



All Flash NVMe NAS, SAN & Object Enterprise Data Storage

PAC Storage PS All Flash NVMe systems delivers uncompromising performance, scalability, and reliability for the most demanding enterprise workloads. Engineered for ultra-low latency and maximum throughput, the PS 3000 and PS 5000 series are purpose-built for modern data-intensive environments — from AI/ML and high-performance computing to large-scale media workflows, virtualization, and mission-critical databases.

With full redundancy, advanced data services, and seamless scalability up to multi-petabyte levels, PAC Storage All Flash platforms provide the foundation for enterprise data centers.

All Flash NVMe 5000 rear view



All Flash NVMe 3000 rear view



HIGHLIGHTS OF PS NVMe LINE:

High Performance & Scalability

- Massive Sequential Throughput
- **IOPS up to 2.4M**
- **New Ultra 5000:** up to **125GB/s** throughput
- 5000: up to 125GB/s read, 40GB/s write
- 3000: up to 24GB/s Read and 12GB/s Write
- Scalable with 24G SAS and 12 SAS expansion
- Symmetric Active-Active Controllers
- Low Latency ≤ 0.3 ms

Full Redundancy, Complete Data Protection

- High Availability with 5x 9's uptime
- All Components are hot-swappable
- RAID, Snapshot, Remote replication and WORM technology
- Object Storage and Immutable Data Options

Extreme Flexibility and Simple Management

- Can run NAS (file), SAN (block) and object storage simultaneously
- Many Connectivity options up to 200GbE
- Cloud Gateway option available
- Easy User Interface- CLI and Web Based
- Single Namespace

Complete US Based Service & Tech Support

- Comes standard with 3 year warranty expandable to 10 years
- US-Based Service and Tech Support
- Government GSA Certified & Approved

HARDWARE SPECIFICATIONS

Product Series		NVMe 3000	NVMe 5000	NVMe 5000 Ultra
Form Factor	2U 24-bay	PS 3024U	PS 5024URE	PS 5024U
	4U 48-bay	PS 3048U		
Controller		Dual redundant	Dual redundant	Dual redundant
Cache Backup Technology		Super capacitor + flash module	Super capacitor + flash module	Super capacitor + flash module
CPU		Intel® Xeon® D 4-Core	Intel® Xeon® Scalable 12-Core	Intel® Xeon® 6 16-Core
Cache Memory		Default DDR4 48GB, up to 384GB	Default DDR5 256GB, up to 1024GB	Default DDR5 512GB, up to 1024GB
Supported Drives		2.5" U.2 NVMe SSD (must be purchased from PAC Storage)	2.5" U.2 NVMe SSD (must be purchased from PAC Storage)	2.5" U.2 NVMe SSD (must be purchased from PAC Storage)
Max. Drive Number	Via Expansion Enclosures, per Appliance	896	896	896
	Via Scale-out with Other Series of Appliances, per Cluster	3584	3584	3584
Max. SSD Cache Pool (Block Level)		4TB	4TB	4TB
Onboard 10GbE Ports (SFP+)		0	0	0
Onboard 25GbE Ports (SFP28)		4	0	0
Host Board Slots		4	6	10
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, RDMA • 25GbE (SFP28) x 4, RDMA • 100GbE (QSFP28) x 1, RDMA • 100GbE (QSFP56) x 2, RDMA • 12Gb/s SAS x 2	• 32Gb/s FC x 4 • 25GbE (SFP28) x2, RDMA • 25GbE (SFP28) x4, RDMA • 100GbE (QSFP28) x 1, RDMA • 100GbE (QSFP56) x 2, RDMA • 200GbE (QSFP56) x 1, RDMA • 12Gb/s SAS x 2	• 32Gb/s FC x 4 • 25GbE (SFP28) x4, RDMA • 100GbE (QSFP28) x 1, RDMA • 100GbE (QSFP56) x 2, RDMA • 200GbE (QSFP56) x 1, RDMA
Max. 16Gb/s FC Ports		16	0	0
Max. 32Gb/s FC Ports		16	24	40
Max. 10GbE Ports (SFP+)		8	0	0
Max. 25GbE Ports (SFP28)		20	24	40
Max. 100GbE Ports (QSFP28)		4	6	10
Max. 100GbE Ports (QSFP56)		8	12	20
Max. 200GbE Ports (QSFP56)			6	10
Max. 12Gb/s SAS Ports		8	12	0
Expansion Enclosures		JB 4024U, JB 3012A, JB 3016A, JB 3024BA, JB 3025BA, JB 3060L, JB 3090	JB 4024U, JB 3012A, JB 3016A, JB 3024BA, JB 3025BA, JB 3060L, JB 3090, JB 4090	JB 4024U, JB 3012A, JB 3016A, JB 3060L, JB 4090
Dimensions (Without Chassis Ears and Protrusions) (W x H x D)		• 2U 24-bay: 449 x 88 x 530 mm • 4U 48-bay: 449 x 176 x 530 mm	449 x 88 x 830 mm	449 x 88 x 830 mm
Package Dimensions (W x H x D)		• 2U 24-bay: 588 x 239 x 780 mm • 4U 48-bay: 588 x 423 x 780 mm	594 x 235 x 1106 mm	594 x 235 x 1106 mm
Power Supply Unit	Power Supplies (Redundant and Hot-swappable)	Global	• 2U 24-bay: 530W x 2 (80 PLUS Bronze) • 4U 48-bay: 1300W x 2 (80 PLUS Titanium)	1600W x 2 (80 PLUS Titanium)
		EU	• 2U 24-bay: 800W x 2 (80 PLUS Titanium) • 4U 48-bay: 1300W x 2 (80 PLUS Titanium)	
	AC Voltage	Global	• 2U 24-bay: 100-240VAC @10-5A • 4U 48-bay: 100-127VAC @12A, 200-240VAC @8.5A	100-127VAC @12A, 200-240VAC @10A
		EU	• 2U 24-bay: 100-127VAC @10A, 200-240VAC @5A • 4U 48-bay: 100-127VAC @12A, 200-240VAC @8.5A	
	Frequency		50-60 Hz	50-60 Hz
Safety Standards		• Electromagnetic compatibility: CE, BSMI, FCC • Safety: UL, BSMI, CB	• Electromagnetic compatibility: CE, BSMI, FCC • Safety: UL, BSMI, CB	• Electromagnetic compatibility: CE, BSMI, FCC • Safety: UL, BSMI, CB

SOFTWARE SPECIFICATIONS

Max. Logical Drive Number	30
Max. Logical Drive Capacity	512TB
Stripe Size	16KB, 32KB, 64KB, 128KB, 256KB, 512KB, 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	256 (per Host-LUN connection)
Max. iSCSI Initiators	832
Max. Host Connection Number	128 (per FC)
RAID Options	RAID 0, RAID 1, RAID 3, RAID 5/5F, RAID 6/6F, RAID 10, RAID 30, RAID 50, RAID 60

Supported Protocols	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)
	Block Level	FC, iSCSI, SAS, NVMe/TCP, NVMe/RDMA
	Object Level	RESTful API

SOFTWARE SPECIFICATIONS CONTINUED

File Level	Max. File System Size	2PB
	Max. Number of Local Users	20000
	Max. Number of Local Groups	512
	Max. Number of Domain Users and Groups	The number depends on the memory capacity of a single controller and the system configuration. • 8GB: 50,000 • 16/24GB: 100,000 • 32/48GB: 200,000 • 64GB: 400,000 • 96GB and up: 500,000
	Max. Number of Shared Folders	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	• Web-based EonOne management software • User account management • Group management • Folder management - folder access control • Quota management • Folder encryption with AES	• Integration with Microsoft Active Directory (AD) and Linux LDAP • Storage Resource Management to analyze history of resource usage • Multi-factor authentication login mechanism • File-level QoS (network traffic control) • SMI-S standard interface for hypervisor management applications
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	• Block level: Offline compression, offline deduplication • File level: Inline compression, offline deduplication	
Notification	• Email	• SNMP traps
Applications	• Anti-virus • Backup Server • Docker • LDAP Server • Mail Server • Nextcloud	• Project Server • Proxy Server • Syslog Server • VPN Server • Web Server
Supported Cloud Services	EonCloud Gateway supports integration with the following cloud providers: Amazon S3, Microsoft Azure, Alibaba Cloud, OpenStack, Baidu Cloud, Google Cloud, Tencent Cloud, Wasabi Cloud, etc.	
	Note: For complete information about supported cloud providers, please refer to EonCloud Gateway webpage https://www.infortrend.com/global/solutions/eoncloud	
Supported OS	Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, MacOS X, VMware	
	Note: For supported OS versions, please refer to the Compatibility Guide.	

DATA SERVICES

Thin Provisioning		Block Level	Default	"Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage space.	
Local Replication	Snapshot	File Level	Optional	Snapshot images per folder: 1024	
		Block Level	Default	Snapshot images per source volume: 64	
			Optional	Snapshot images per source volume: 256	
	Volume Copy/Mirror	Default	Replication pairs per source volume: 4		
		Optional	Replication pairs per source volume: 8		
Remote Replication		File Level	Default	Support Rsync with 128-bit SSH encryption	
		Block Level	Optional	Replication pairs per source volume: 8	
				Replication pairs per system: 64	
				Note: The maximum number of replication pairs per source volume is 8, whether they are remote asynchronous pairs, remote synchronous pairs, or local volume pairs	
Automated Storage Tiering			Optional	Storage tiers per pool: 4	
Scale-out	File Level	Default	Appliances per cluster: 1		
		Optional	Appliances per cluster: 4		
	Block Level	Default	Appliances per cluster: 4		
HA Service	File Level	Optional	Delivering continuous availability and eliminating downtime for mission-critical workloads that require non-stop operations		
	Block Level				
SSD Cache	File Level	Optional	Accelerating file operations and data access performance for both read and write		
	Block Level	Optional	Max. SSD number: 8		
			Accelerating data access in random read-intensive environments (e.g. OLTP) Max. SSD number: 4		
			Recommended DIMM capacity per controller for SSD cache pool		
			DRAM : 8GB	Max SSD cache pool size : 0.5TB	
			DRAM : 16GB	Max SSD cache pool size : 1TB	
			DRAM : 32GB	Max SSD cache pool size : 2TB	
DRAM : 64GB and up	Max SSD cache pool size : 4TB				