



PAC STORAGE Gen 4 NVMe



PAC Storage Gen 4 NVMe brings PCIe 4.0, 100GbE connectivity, Intel's premium Ice Lake CPU and ultimate upgrades. This system is a high-performance solution with unprecedented advantages in throughput, IOPS and flexibility.



PAC Storage Gen 4 NVMe 24 & 48 Bay reach up to 24GB/s Read & 12 GB/s Write Speed in a single system 1.1 Million IOPS

- Enterprise Class PCIe 4.0 Systems supporting U.2 & U.3 NVMe drives
- Intel's new Ice Lake CPU
- Supports hybrid environments that integrate SAN, NAS & cloud
- Massive sequential throughput of up to 24GB/s read and 12GB/s write per appliance, 1.1 Million IOPS
- NVMe 24 & 48 Bay scalable with auto-tiering availability
- Dual Active-Active Controllers
- Single namespace for easy access
- High availability of 5 9's uptime and no single point of failure
- Comes with 3 year warranty and support included and upgradeable to 10 years



PS NVMe offers port customization with max 4 host board slots with many options up to 100 GbE

All components are hot-swappable, with no service interruption during component replacement.



PHYSICAL SPECIFICATIONS

Product Series		NVMe 3000U		NVMe 4000U	
Form Factor		2U 24-bay		2U 24-bay	
		NVMe 3024UR	NVMe 3048UR	NVMe 4024UR	NVMe 4048UR
		Note: U : NVMe storage, R : Dual redundant controllers,			
Controller		Dual redundant			
Cache Backup Technology		Super capacitor + flash module			
CPU		Intel® Xeon® D 4-Core		Intel® Xeon® D 6-Core	
Cache Memory		Default DDR4 196GB Expandable up to 384GB		Default DDR4 384GB	
Supported Drives		2.5" U.2 , U.3 NVMe SSD			
Max. Drive Number via expansion enclosure, per appliance		896		896	
Max. SSD Cache Pool (Block-level)		4TB		4TB	
Onboard 10GbE Ports (SFP+)		0		0	
Onboard 25GbE Ports (SFP28)		4		0	
Max. Host Board Slots		4		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 100GbE (QSFP28) x 1, RDMA 100GbE (QSFP28) x 2, RDMA			
		Note: 1. One 100GbE x 2 host board delivers a maximum throughput of 100Gb/s.			
Max. 16Gb/s FC Ports		16		16	
Max. 32Gb/s FC Ports		16		16	
Max. 10GbE Ports (SFP+)		8		8	
Max. 25GbE Ports (SFP28)		8		8	
Max. 100GbE Ports (QSFP28)		4		4	
Max. 12Gb/s SAS Ports		8		8	
Expansion Enclosures (JBODs)		JB 3012A, JB 3016A, JB 3024BA, JB 3025BA, JB 3060L, JB 3090			
Dimensions (Without Chassis Ears and Protrusions) (W x H x D)		449 x 88 x 530 mm			
Package Dimensions (W x H x D)		780 x 338 x 588 mm			
Power Supply Unit		530W x 2 (80 PLUS Bronze)			
Power Supplies (Redundant and Hot-swappable)		530W x 2 (80 PLUS Bronze)			
AC Voltage		100VAC @10A to 240VAC @5A			
Frequency		50-60 Hz			
Safety Standards		<ul style="list-style-type: none"> • Electromagnetic Compatibility : CE, BSMI, FCC • Safety : UL, BSMI, CB 			

SOFTWARE SPECIFICATIONS

Max. Logical Drive Number	30	
Max. Logical Drive Capacity	512TB	
Stripe Size (per Logical Drive)	16KB, 32KB, 64KB, 128KB, 256KB, 512KB, 1024KB	
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	832	
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	
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
	Object Level	RESTful API
File Level	Max. File System Size	2PB
	Max. Number of User Accounts	20000
	Max. Number of User Groups	512
	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	<ul style="list-style-type: none"> • Web-based EonOne management software • User account management • Group management • Folder management - folder access control • Quota management • Folder encryption with AES <ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Immutable object storage • Hot-swappable hardware modules • Device mapper • Antivirus • Trunk group <ul style="list-style-type: none"> • Cache safe technology • UPS • WORM (file level only) • SMB Multichannel 	
Efficiency	<ul style="list-style-type: none"> • Inline compression • Offline deduplication 	
Notification	<ul style="list-style-type: none"> • Email • SNMP traps 	
Applications	<ul style="list-style-type: none"> • Web-based file explorer • Proxy server • Syslog server • VPN server • LDAP server • Docker 	
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.	
Supported OS	Microsoft Windows Server, Red Hat Enterprise Linux, Mac OS X, VMware.	

DATA SERVICES

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	
Local Replication	Snapshot	Block level	Default	Snapshot images per source volume: 64 Snapshot images per pool: 128
			Optional	Snapshot images per source volume: 256 Snapshot images per pool: 4096
	Volume Copy/Mirror	Default	Replication pairs per source volume: 4 Replication pairs per system: 16	
		Optional	Replication pairs per source volume: 8 Replication pairs per system: 256	
Remote Replication	File level	Default	Rsync with 128-bit SSH encryption	
	Block level	Optional	Replication pairs per source volume: 8 Replication pairs per system: 64	Note: 1. The maximum number of replication pairs per source volume is 8, whether they are remote asynchronous pairs, remote synchronous pairs, or local volume pairs. 2. 16Gb FC x 4, 32Gb FC x 2, and 32Gb FC x 4 host boards do not support Remote Replication.
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 Max. SSD number per controller: 8	
	Block level	Optional	Accelerating data access for random read-intensive environments (e.g. OLTP) Max. SSD number per controller: 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			

WARRANTY AND SERVICE

Service and Support	3-year hardware warranty upgradeable to 10 years
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