



## PAC STORAGE NVMe 5000



PAC Storage NVMe 5000 brings 200GbE connectivity per controller, 1.3M IOPS, 50 GB/s Throughput, PCIe 5.0, Intel's Xeon Scalable 12-Core CPU & ultimate upgrades. This system is a high-performance solution with unprecedented advantages in throughput, IOPS and flexibility.

- Enterprise Class PCIe 5.0 Systems supporting U.2 & U.3 NVMe drives
- Intel's Scalable Xeon 12 Core CPU
- Supports hybrid environments that integrate SAN, NAS & cloud
- Massive sequential throughput of up to 50GB/s read and 24GB/s write per appliance, 1.3 Million IOPS
- NVMe 24 Bay scalable up to 20PB 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

PAC Storage NVMe 5000 is ideal for applications requiring high I/O and throughput. This 2U-24 Bay can reach up to 50GB/s Read & 24 GB/s Write Speed in a single system



PS NVMe offers port customization with max 6 host board slots with many options up to 200 GbE

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



# PHYSICAL SPECIFICATIONS

Product Series		GS 5000U	
Form Factor		2U 24-bay	
		PS 5024URE	
		<b>Note: U:</b> NVMe storage <b>R:</b> Dual redundant controllers <b>T:</b> High performance	
Controller		Dual redundant	
Cache Backup Technology		Super capacitor + flash module	
CPU		Intel® Xeon® Scalable 12-Core	
Cache Memory		Default DDR5 128GB, up to 1024GB	
Supported Drives		2.5" U.2 NVMe SSD (must be purchased from Infortrend)	
		<b>Note:</b> For the latest compatibility details, refer to our official website for the latest Compatibility Guide.	
Max. Drive Number	Via Expansion Enclosures, per Appliance	896	
	Via Scale-out with Other Series of Appliances, per Cluster	3584	
Max. SSD Cache Pool (Block Level)		4TB	
Onboard 10GbE Ports (SFP+)		0	
Onboard 25GbE Ports (SFP28)		0	
Max. Host Board Slots		6	
Host Board Options		<ul style="list-style-type: none"> <li>• 32Gb/s FC x 4</li> <li>• 25GbE (SFP28) x 2</li> <li>• 100GbE (QSFP28) x 1, RDMA</li> <li>• 12Gb/s SAS x 2</li> </ul>	
		<b>Note:</b> 1. One 100GbE x 2 host board delivers a maximum throughput of 100Gb/s. 2. It is strongly recommended that you refer to the latest Host Board and Memory Guide on our website for complete information, including supported combinations and important notes, before purchasing any host board for your model.	
Max. 16Gb/s FC Ports		0	
Max. 32Gb/s FC Ports		24	
Max. 10GbE Ports (SFP+)		0	
Max. 25GbE Ports (SFP28)		12	
Max. 100GbE Ports (QSFP28)		6	
Max. 12Gb/s SAS Ports		12	
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 830 mm	
Package Dimensions (W x H x D)		594 x 235 x 1106 mm	
Power Supply Unit	Power Supplies (Redundant and Hot-swappable)	Global	1600W x 2
		EU	(80 PLUS Titanium)
AC Voltage		Global	100-127VAC @ 12A, 200-240VAC @ 10A
		EU	
Frequency		50-60 Hz	
Safety Standards		<ul style="list-style-type: none"> <li>• Electromagnetic compatibility: CE, BSMI, FCC</li> <li>• Safety: UL, BSMI, CB</li> </ul>	



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## 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
	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 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	<ul style="list-style-type: none"> <li>• Web-based EonOne management software</li> <li>• User account management</li> <li>• Group management</li> <li>• Folder management - folder access control</li> <li>• Quota management</li> <li>• Folder encryption with AES</li> </ul>	<ul style="list-style-type: none"> <li>• Integration with Microsoft Active Directory (AD) and Linux LDAP</li> <li>• Storage Resource Management to analyze history of resource usage</li> <li>• Multi-factor authentication login mechanism</li> <li>• File-level QoS (network traffic control)</li> <li>• SMI-S standard interface for hypervisor management applications</li> </ul>
Availability and Reliability	<ul style="list-style-type: none"> <li>• Immutable object storage</li> <li>• Hot-swappable hardware modules</li> <li>• Device mapper</li> <li>• Antivirus</li> <li>• Trunk group</li> </ul>	<ul style="list-style-type: none"> <li>• Cache safe technology</li> <li>• UPS</li> <li>• WORM (file level only)</li> <li>• SMB Multichannel</li> </ul>
Efficiency	<ul style="list-style-type: none"> <li>• Inline compression</li> </ul>	<ul style="list-style-type: none"> <li>• Offline deduplication</li> </ul>
Notification	<ul style="list-style-type: none"> <li>• Email</li> </ul>	<ul style="list-style-type: none"> <li>• SNMP traps</li> </ul>
Applications	<ul style="list-style-type: none"> <li>• Anti-virus</li> <li>• Backup Server</li> <li>• Docker</li> <li>• LDAP Server</li> <li>• Mail Server</li> <li>• Nextcloud</li> </ul>	<ul style="list-style-type: none"> <li>• Project Server</li> <li>• Proxy Server</li> <li>• Syslog Server</li> <li>• VPN Server</li> <li>• Web Server</li> </ul>
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, SUSE Linux Enterprise, Sun Solaris, MacOS X, VMware	
	<b>Note:</b> 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	File Level	Optional	Snapshot images per folder: 1024	
	Snapshot	Block Level	Default	Snapshot images per source volume: 64      Snapshot images per system: 128
		Optional	Snapshot images per source volume: 256      Snapshot images per system: 4096	
	Volume Copy/Mirror	Block Level	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	Support Rsync with 128-bit SSH encryption	
	Block Level	Optional	Replication pairs per source volume: 8      Replication pairs per system: 64	<b>Note:</b> 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		<b>Note:</b> HA Service is not available on GS 2000U.	
SSD Cache	File Level	Optional	Accelerating file operations and data access performance for both read and write Max. SSD number: 8	
	Block Level	Optional	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	

## WARRANTY AND SERVICE

Service and Support	Standard Service	3-year limited hardware warranty and 8 x 5 phone, web, and email support (batteries are covered under warranty for 2 years)	
	Upgrade or Extension Options	Warranty extension: Can extended standard service up to 5 years The following Service can be upgraded to 5 years	
		<ul style="list-style-type: none"> <li>• Upgrade: Replacement part dispatch on the next business day</li> <li>• Advanced service: phone, web, and email support + onsite diagnostics on the next business day</li> <li>• Premium service: phone, web, and email support + onsite diagnostics in 4 hours</li> </ul>	
	<b>Note:</b> Options may vary by region. For more details, please contact our sales representatives.		
	Technical Support	Get information on system installation and maintenance, download technical documents and software, or issue a support ticket	
	Product Services	Register products, download firmware, apply for licensing services, create product repair tickets, or check product repair status	



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