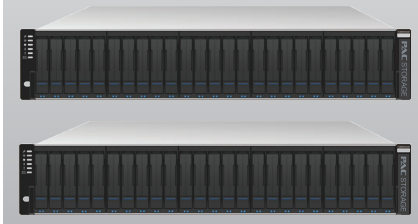
# PAC Storage PS NVMe

## NEXT GENERATION DATA STORAGE

PAC Storage PS NVMe New Generation brings ultimate upgrades with PCIe 4.0, 100GbE connectivity, Intel's latest Ice Lake CPU and more. This system is a high-performance solution for enterprises with its unprecedented advantages in throughput, IOPS and flexibility. The PCIe 4.0 NVMe system offers Intel's advanced Ice Lake 6-Core Xeon CPU platform and reaches up to 24GB/s Read and 12 GB/s Write speed and 1.1 Million IOPS under a single unit under high workloads. The PS NVMe is designed for extreme performance in the RAID and can host hybrid environments via expansion auto-tiering. The system is suitable for running file and block hybrid environments adopting SAN, NAS, and Cloud integration. Also new is single namespace capabilities for easier data access.



## KEY FEATURES

- Enterprise-Class NVMe Systems with U.2 & U.3
- 100 GbE Connectivity
- Up to 1.1 Million IOPS single system
- 24 GB/s read/12 GB/s write single unit
- Integrated SAN/NAS with Cloud Gateway Option
- Dual Active-Active Controllers
- NVMe 24 Bay scalable to 896 drives via JBOD SAS, SSD, 10K, 7200NL drives
- Single Namespace
- High Availability & IDR
- No Single Point of Failure
- Centralized GUI Firmware with remote replication, SSD caching, Auto Tiering, Snap Shot, Thin Provisioning, Auto-Balancing
- Three Years Warranty and Support included and expandable up to 10 years

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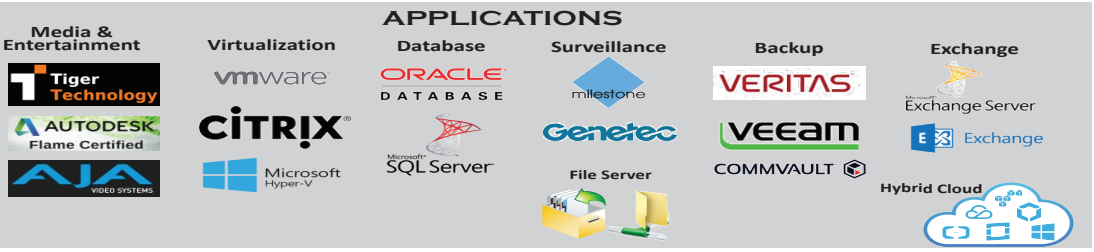



### Symmetric active-active controllers

PAC Storage PS NVMe 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.

### Optimized for U.2 & U.3 NVMe SSD

PAC's NVMe has a built-in intelligent algorithm to increase SSD lifespan and prevent simultaneous failure of multiple SSDs and consequent the data loss

### Maximized Storage Efficiency

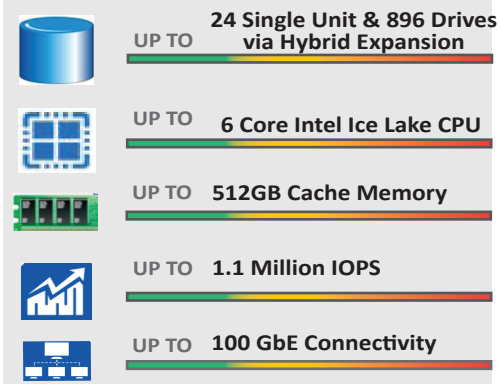
Utilize U.2 NVMe SSDs for high-performance IO and NL-SAS/ SATA HDDs for massive data archive with automated storage tiering. In addition, the cloud storage gateway offers unlimited scalability and flexible "scale on demand" model, which allows you to expand your storage capacity as needed, without upfront 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 PS NVMe offers various cloud functions such as Cloud Tiering, Cloud Cache and Cloud Backup to make the most of cloud's advantages.

### 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 PS NVMe 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.

### Easy Management & Visibility

PAC Systems provide single namespace for easier access and auto-balancing to reduce the burden of IT storage management.

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# PAC Storage PS NVMe

| PHYSICAL SPECIFICATIONS | | PAC Storage NVMe |
|---|---|---|
| Controller | | Dual-redundant |
| CPU | | Intel Xeon D 6-Core |
| Cache memory (per system) | | 64GB upgradeable to 384GB |
| Max. host board slots | | 4 |
| Onboard SAS expansion ports (for hybrid JBODs) | | 0 |
| Onboard iSCSI ports (10GbE SFP+) | | 0 |
| Host board ports | | 4 x 16Gb/s FC ports 2 x 32Gb/s FC ports 2 x 25GbE ports (SFP28) RDMA/RoCE<br>1 x 100GbE ports (QSFP28), RDMA/RoCE 2 x 100GbE ports (QSFP28), RDMA/RoCE<br>Note: 1. The two controllers must have identical slot settings. 2. Fiber Channel supports point-to-point and switch mode. |
| Max logical drives number | | 30 |
| 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 | | 30 |
| Max. volume size | | 2PB |
| Max. volume number (per pool/per system) | | 1024 |
| Max. host LUN mapping number | | 4096 |
| Max. reserved tag number per host-LUN connection | | Up to 256 |
| Max. host port connection number (per FC) | | 128 |
| 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 |
| | Max. number of concurrent connections (NFS/CIFS/AFP/FTP) | 2048 (NFS/CIFS/AFP)\| 1024 (FTP) |
| RAID options | | RAID 0, 1, 3, 5, 6, 10, 30, 50, 60 |
| Protocol support | | File Level Protocol: CIFS/ SMB: Version 2.0/3.0, NFS: Ver. 2/3/4, AFP(Ver 3.1.12), FTP/FXP(vsftp 2.3.4), WebDAV Ver. 2.4.6<br>Block Level Protocol : FC, iSCSI, SAS<br>Object Level Protocol: 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 ,Wasabi Cloud |
| **PHYSICAL SPECIFICATIONS** | | |
| Form factor | | 2U-24 Bay |
| Supported Drives | | 2.5" U.2 & U.3 NVMe SSD |
| Dimensions (without chassis ears/protrusions) | | 449(W) x 88(H) x 530mm |
| Power supply unit | Power supplies | Redundant (1+1) hot swappable 530W x 2 (80 PLUS Platinum) |
| | AC Voltage | 100VAC @10A to 200-240VAC @5A |
| **SOFTWARE SPECIFICATIONS** | | |
| Thin Provisioning (default included) | | "Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage space |
| Local Replication | Snapshot | File level Snapshot per folder: 1024<br>Block per source volume Standard License: 64 / Advanced License: 256<br>Snapshot images per pool Standard License: 128 / Advanced License: 4096 |
| | Volume Copy/Mirror | Block Replication per source volume Standard License: 4 / Advanced License: 8<br>Replication pairs per system Standard License: 16 / Advanced License: 256 |
| Remote Replication(Block level)(optional) | | Replication pairs per source volume: 8<br>Replication pairs per system: 64<br>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 |
| Automated Storage Tiering(optional) | | 4 storage tiers per pool<br>Automated data migration with scheduling options |

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