



PAC STORAGE PS Gen3 40 & 60 Bay with NVMe Options



PAC Storage Gen3 offers you a high performance, high availability enterprise storage system with many options for capacity, performance & flexibility tailored for your requirements and budget.

- Supports hybrid environments that integrate SAN, NAS & cloud services
- Massive sequential throughput of up to 16GB/s read and 12GB/s write per appliance
- Intel's new Ice Lake CPU
- Scalable up to 896 Drives
- Dual Active-Active Redundant Controllers
- Single namespace for easier data access
- High availability of 5 9's uptime
- Comes with 3 year warranty upgradeable to 10 years

PAC Storage 40 and 60 Bay have NVMe options for cache read and write performance boost.



40 Bay Top View



40 Bay Top View with 2x NVMe
= 42 Bay (40HDD + 2 NVMe)



60 Bay Top View



60 Bay Top View with 2x NVMe
= 58HDD + 2NVMe



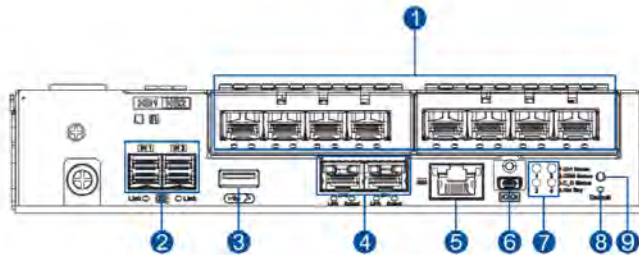
PS 3000 comes standard with 25GbE connectivity. PS 4000 requires port customization from the start. Both have many options with up to 100 GbE.

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



PHYSICAL SPECIFICATIONS

| Product Series | | PS 3000 G3 | PS 4000 G3 |
|---|--|--|--------------------------------|
| Form Factor | 4U 40-bay | PS 3040 R3 | PS 4040R3 PS 4040R3C |
| | 4U 60-bay | PS 3060 R3 | PS 4060R3 PS 4060R3C |
| Note: S : Single controller, upgradable to dual redundant controllers R : Dual redundant controllers C : NVMe SSD cache | | | |
| Controller | Dual redundant or single upgradable to dual redundant | | |
| Cache Backup Technology | Super capacitor + flash module | | |
| CPU | Intel® Ice Lake Xeon® D 4-Core | | Intel® Ice Lake Xeon® D 6-Core |
| Cache Controller Memory | Single Controller | Default 3000 Single Controller: 96GB expandable to 192GB. 4000 Single Controller: 192GB | |
| | Redundant Controller | Default 3000 Redundant Controller: 192GB expandable to 384GB. 4000 Redundant Controller 384GB | |
| Supported Drives | 2.5" SAS SSD 2.5" 12Gb/s SAS 10,000 RPM 3.5" 12Gb/s NL-SAS 7,200 RPM HDD 2 Bundled 2.5" U.2 NVMe SSD for U.2 SSD cache models | | |
| Max. Drive Number | via expansion enclosure, per appliance | 896 | |
| Onboard 25GbE Ports (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) 100GbE | |
| Max. 16Gb/s FC Ports | | 16 | |
| Max. 32Gb/s FC Ports | | 16 | |
| Max. 25GbE Ports (SFP28) | 12 | 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 x H x D) | | 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) | | 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) | 4U 40-bay/60-bay: 1200W x 2 (80 PLUS Platinum) | |
| | AC Voltage | 2 4U 40-bay/60-bay: 100-127VAC @10A, 200-240VAC @8A | |
| | Frequency | 50-60 Hz | |
| Safety Standards | | <ul style="list-style-type: none"> Electromagnetic Compatibility: CE, BSMI, FCC Safety: UL, BSMI, CB | |



| Number | Part | Number | Part |
|--------|--|--------|----------------------------------|
| 1 | Host Board Ports (Optional) | 6 | Serial Port (Mini USB Connector) |
| 2 | SAS Expansion Ports | 7 | Controller Status LEDs |
| 3 | USB 3.0 Port (for Service Only) | 8 | Restore Default LED |
| 4 | Onboard Dual Port 25GbE (Selected Models Only) | 9 | Restore Default Button |
| 5 | Ethernet Management Port | | |

SOFTWARE 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 | |
| Supported Protocols | File Level | CIFS/SMB (Version 2.0/3.0), NFS (Version 2/3/4), AFX/BTRfS, 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"> • SMI-S standard interface for hypervisor management applications • Multi-factor authentication login mechanism • Web-based management software • User account management • Group management | <ul style="list-style-type: none"> • 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 |
| 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 | 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. | |

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 | Block level | Optional | Delivering continuous availability and eliminating downtime for mission-critical workloads that require non-stop operations | |
| 40 and 60 Bay Optional NVMe Cache for Read and Write Performance Boost | NVMe Drive Options | Optional | NVMe SSD, PCIe Gen3, 1.92TB, DWPD=1 with bundle key | |
| | | | NVMe SSD, PCIe Gen3, 3.84TB, DWPD=1, with bundle key | |
| | | | NVMe SSD, PCIe Gen3, 7.68TB, DWPD=1, with bundle key | |
| | | | NVMe SSD, PCIe Gen4, 15.36TB, DWPD=1, with bundle key | |

WARRANTY AND SERVICE

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



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