

Acceleron NAS[®] A100



Acceleron NAS unified storage arrays are designed with enterprise features and reliability at an entry-level cost. Available in two models, the Acceleron NAS A100 provide unified file, block, and object storage, and are available in single hybrid or all-flash configurations. The Acceleron NAS A-Series offers excellent reliability and affordability for small and medium IT environments.

The Acceleron NAS A-Series fits a wide range of applications from file and media storage to business continuity, video surveillance, and many others. The Acceleron NAS A-Series provides data integrity, reliability, and ease-of management for business.

HYPERCONVERGED NAS

Acceleron NAS A-Series comes with hyper converged storage and web scale features. User can scale up NAS storage without affecting performance of existing storage by adding more storage NAS boxes as a cluster at no-extra provisioning cost.

UNLIMITED SNAPSHOTS AND REPLICATION

Most storage appliances require additional licenses for advanced features – but not Acceleron NAS. Unlimited snapshots and replication, compression and Deduplication are some of its advanced features. A-Series also support unlimited file version retention, restoration, and replication features too. Acceleron NAS can be used as storage local storage, remote backup storage, or to the cloud for backups or disaster recovery.

FLASH ASSISTED PERFORMANCE

Acceleron NAS gives Solid-state performance by caching read and write. Acceleron NAS leverages ZFS to merge multi-layer DRAM and flash cache with high-density spinning disks: system RAM and SSDs are used to cache reads and writes while HDDs store the data.

STORAGE OPTIMIZATION

Acceleron NAS maximizes storage efficiency by offering compression, deduplication, and thin provisioning at no extra cost. Before data is stored, Acceleron NAS dynamically detects and compresses what it can and skips over any data too inefficient to be worthwhile.

NAS Software Specifications	
Storage Architecture	<ul style="list-style-type: none"> • HDD + Optional R/W Cache • SSD + NVMe R/W Cache
Storage Technology	<ul style="list-style-type: none"> • SATA • SAS • NL-SAS • SSD • NVMe
Read Cache Technology	<ul style="list-style-type: none"> • SATA SSD
Enterprise File System	<ul style="list-style-type: none"> • OpenZFS – File System • Block File System • Object File System
Data Management	<ul style="list-style-type: none"> • Snapshots • Replication • Rollback • Clones • Encryption • Mirroring • RAIDZ1/Z2/Z3
Data Reduction	<ul style="list-style-type: none"> • Thin Provisioning • Compression • Clones • De-duplication
Access Protocol	<ul style="list-style-type: none"> • NFSv3 • NFSv4 • SMB • AFP • iSCSI, • HTTP/WebDAV • FTP • S3
Application Integration	<ul style="list-style-type: none"> • Application Plugins
Software Compatibility	<ul style="list-style-type: none"> • Clients: Unix, Linux, Windows, FreeBSD, MacOS

NAS Hardware Specifications	
Form factor	<ul style="list-style-type: none"> • 2U to 6U, 19" rack mount, expanded using J-BOB Enclosure • Dimensions (WxDxH) – 438 x 658 x 87/174/261 (mm)
Processor subsystem	<ul style="list-style-type: none"> • Intel Xeon Servers upto 215W • From 16GB Up to 512GB RAM (configured at purchase) • Support Intel® Optane™ DC Persistent memory • Intel® C621 chipset
Max Physical Storage	<ul style="list-style-type: none"> • 500TB with Additional J-BOD Enclosure
Read Cache Size	<ul style="list-style-type: none"> • Optional support
Front Control	<ul style="list-style-type: none"> • Power button • System reset button
Front I/O Ports	<ul style="list-style-type: none"> • 2 x USB 3.0
Visual Indicators	<ul style="list-style-type: none"> • Power • UID • LAN activity • HDD status
Rear Panel	<ul style="list-style-type: none"> • 2 x RJ45 Network interfaces (10/100/1000/10000 Base-T) • 1 x IPMI interface (10/100/1000 Base-T) • 1 x VGA • 1 x DB-9 (serial port)
Expansion slots	<ul style="list-style-type: none"> • 4 x PCIe 3.0 x16, Low Profile (One will be used for system with SAS controller disk support) • 2 x PCIe 3.0 x8, Low Profile
Drive bays	<ul style="list-style-type: none"> • 40 x 3.5" or 40 x 2.5" SAS/NLSAS/SSD(configured at purchase) with additional JBOD Enclosure
Power	<ul style="list-style-type: none"> • 2 (1+1) CRPS (80+ Platinum)
Cooling	<ul style="list-style-type: none"> • 80 x 25/38mm internal fans
Temperature	<ul style="list-style-type: none"> • Operating: 10°C to 35°C (50°F to 95°F) • Non-operating: -40°C to 70°C (-40°F to 158°F)
Weight	<ul style="list-style-type: none"> • 15Kg
Operating System	<ul style="list-style-type: none"> • FreeBSD