

## Acceleron NAS® B-Series



Acceleron NAS unified storage arrays are designed with enterprise features and reliability at an entry-level cost. Available in two models, the Acceleron NAS B100 provide unified file, block, and object storage, and are available in single hybrid or all-flash configurations. The Acceleron NAS B-Series offers excellent reliability and affordability for small and medium IT environments. The Acceleron NAS B-Series offers highly reliable **hyper convergence and web scale up features**.

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

### HYPERCONVERGED NAS

Acceleron NAS B-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

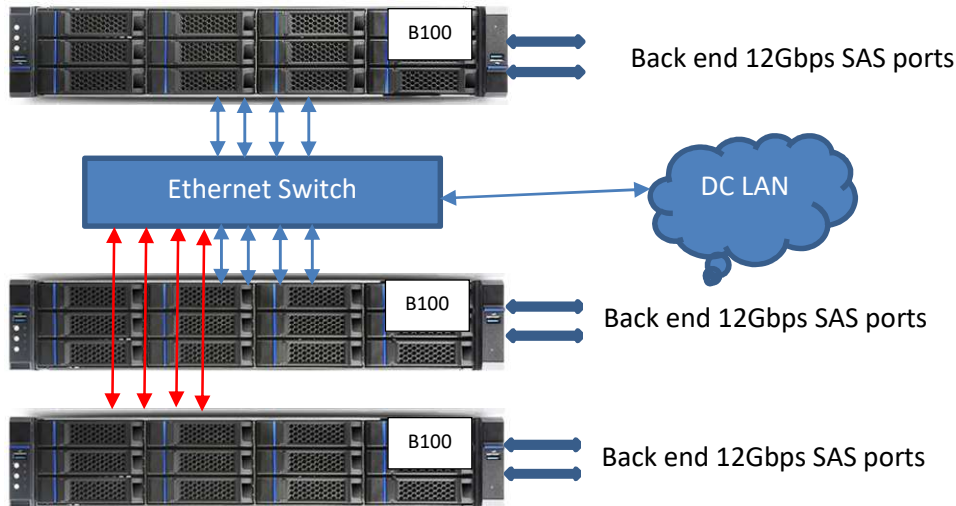
Most storage appliances require additional licenses for advanced features – but not Acceleron NAS. Unlimited snapshots and replication, compression and Deduplication are some of its advanced features. A-Series also support unlimited file version retention, restoration, and replication features too. Acceleron 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 RADOS 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 Hardware Specifications

Form factor	<ul style="list-style-type: none"> <li>2U/4U, 19" rack mount</li> <li>Dimensions (WxDxH) – 438 x 658 x 88.9/178 (mm)</li> </ul>
Processor subsystem	<ul style="list-style-type: none"> <li>Intel Xeon Silver 4210, 10C, 2.2GHz, 85W</li> <li>From 16GB Up to 128GB RAM (<b>configured at purchase</b>)</li> </ul>
Number of Controller Node available in the storage system using switches	<ul style="list-style-type: none"> <li>Min 3 Nos of nodes for storage high availability and Controller redundancy</li> </ul>
Max Physical Storage	<ul style="list-style-type: none"> <li>2U Form factor: 360TB for SSD/NLSAS, 50TB for SAS per node</li> <li>4U Form factor: 720TB for SSD/NLSAS, 100TB for SAS per node</li> </ul>
Read Cache Size	<ul style="list-style-type: none"> <li>Optional support</li> </ul>
Front Control	<ul style="list-style-type: none"> <li>Power button</li> <li>System reset button</li> </ul>
Front End I/O Ports	<ul style="list-style-type: none"> <li>4 x 10Gbps Ethernet SFP+</li> </ul>
Back end I/O Ports	<ul style="list-style-type: none"> <li>4 x SAS 12Gbps ports</li> </ul>
Replication ports	<ul style="list-style-type: none"> <li>1 x 1Gbps Ethernet</li> </ul>
RAID Level Support	<ul style="list-style-type: none"> <li>RAID 5, 6, 10 or equivalent</li> </ul>
Visual Indicators	<ul style="list-style-type: none"> <li>Power</li> <li>UID</li> <li>LAN activity</li> <li>HDD status</li> </ul>

Drive bays	<ul style="list-style-type: none"> <li>• 2U Form factor- 24 x 3.5" or 24 x 2.5" SAS/SATA (<b>configured at purchase</b>)</li> <li>• 4U Form Factor -48 x 3.5" or 48 x 2.5" SAS/SATA (<b>configured at purchase</b>)</li> </ul>
Active-Active Controllers Configured in HA	<ul style="list-style-type: none"> <li>• In 3 Node configuration the nodes are in Active-Active configuration</li> </ul>
Total Configurable Cache	<ul style="list-style-type: none"> <li>• Minimum 64GB cache on each controller</li> </ul>
Power	<ul style="list-style-type: none"> <li>• 2 (1+1) CRPS (80+ Platinum)</li> </ul>
Cooling	<ul style="list-style-type: none"> <li>• 80 x 25/38mm internal fans</li> </ul>
Temperature	<ul style="list-style-type: none"> <li>• Operating: 10°C to 35°C (50°F to 95°F)</li> <li>• Non-operating: -40°C to 70°C (-40°F to 158°F)</li> </ul>
Weight	<ul style="list-style-type: none"> <li>• 15Kg</li> </ul>
Operating System	<ul style="list-style-type: none"> <li>• Linux</li> </ul>

NAS Software Specifications	
Storage Architecture	<ul style="list-style-type: none"> <li>• HDD + SAS SSD R/W Cache</li> <li>• SATA SSD + NVMe R/W Cache</li> </ul>
Storage Technology	<ul style="list-style-type: none"> <li>• SATA</li> <li>• SAS</li> <li>• NL-SAS</li> <li>• SSD</li> <li>• NVMe</li> </ul>
Read Cache Technology	<ul style="list-style-type: none"> <li>• SAS SSD</li> </ul>
Enterprise File System	<ul style="list-style-type: none"> <li>• CephFS File System</li> <li>• Block File System</li> <li>• Object File System</li> </ul>
Data Management	<ul style="list-style-type: none"> <li>• Snapshots</li> <li>• Replication</li> <li>• Rollback</li> <li>• Clones</li> <li>• Mirroring</li> <li>• RAID 5/6/10</li> <li>• Erasure Coding</li> </ul>
Data Reduction	<ul style="list-style-type: none"> <li>• Thin Provisioning</li> <li>• Compression</li> <li>• Clones</li> </ul>
Access Protocol	<ul style="list-style-type: none"> <li>• NFSv3 &amp; NFSv4</li> <li>• CIFS</li> <li>• SMB</li> <li>• iSCSI</li> <li>• S3</li> </ul>
Software Compatibility	<ul style="list-style-type: none"> <li>• Clients: Unix, Linux, Windows, VMware, FreeBSD, MacOS</li> </ul>
Replication Software support	<ul style="list-style-type: none"> <li>• Asynchronous Replication Support</li> <li>• Additional Asynchronous Replication license required</li> <li>• Replication software support to same Acceleron NAS B100 cluster only</li> </ul>
High Availability	<ul style="list-style-type: none"> <li>• No Single point of Failure with Non-Disruptive replacement of Hardware</li> <li>• The Storage provide Non-disruptive Firmware /Microcode upgrade</li> </ul>
Encryption	<ul style="list-style-type: none"> <li>• Not supported</li> </ul>
Data Compression	<ul style="list-style-type: none"> <li>• In-line data compression supported</li> </ul>
IPv6 Support	<ul style="list-style-type: none"> <li>• Yes</li> </ul>
Deduplication	<ul style="list-style-type: none"> <li>• Not supported</li> </ul>



# Acceleron NAS

## Product Specifications

**Acceleron Labs Pvt. Ltd.**  
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