



# SnapServer® NAS N2000

## High Performance, Scalable Network Attached Storage

The SnapServer NAS N2000 is a high performance, scalable platform for storing both file and block data. This 2U storage appliance supports up to 12 SAS or SATA drives and delivers proven stability and out-of-the-box integration with Windows, UNIX/Linux, and Macintosh environments. For virtual servers and database applications, the SnapServer N2000 supports iSCSI block-level access with Microsoft VSS and VDS integration to simplify Windows management. For data protection, it has the ability to replicate to one or multiple SnapServers, take snapshots for point-in-time recovery, and perform backups to disk, VTL, or tape. With configurations starting at 1.2TB and scaling to more than 140TB, the SnapServer NAS N2000 is an ideal choice for growing businesses who require fast, flexible, and scalable networked storage for their mission-critical data.

### Simple

Built on the award-winning GuardianOS™, the N2000 is simple to deploy and manage. Intuitive wizards guide you through installation and the initial creation of storage volumes while a Web-based management console and a full-featured Command Line Interface (CLI) give you flexibility for ongoing administration. The N2000 is also equipped with Overland's SnapServer Manager™, a Java-based utility integrated with GuardianOS that enables you to manage all of your SnapServer NAS, SAN, and REO VTL\* devices from a single console.

### Flexible

The N2000 is based on a unified storage architecture – supporting both traditional file and iSCSI block protocols for ultimate flexibility. You can store and share files seamlessly across Windows, UNIX/Linux, and Mac OS platforms while simultaneously supporting virtual servers and database, email, or backup applications with iSCSI block-level access. Moreover, with the ability to intermix high performance SAS and high density SATA drives within the same system, the N2000 enables you to customize the performance and capacity of every volume you create.

### Scalable

Available in configurations starting at 1.2TB, the N2000 can easily be expanded to 24TB within the base system and scale to 144TB by adding up to five SnapServer EXP E2000 arrays. With

Overland's Instant Capacity Expansion™ (I.C.E.) feature, volume capacity can be increased instantaneously – without downtime or degraded performance. The N2000 supports up to six Gigabit Ethernet (GbE) ports with Ethernet teaming and is equipped with a quad-core Intel processor for unparalleled performance.

### Secure

The N2000 delivers best-in-class integration with Microsoft Active Directory Services (ADS) and UNIX Network Information Service (NIS) to ensure that all of your security and file access protocols remain intact. It maintains true native Windows and UNIX permissions and supports all Microsoft Inheritance levels as well as the full set of over 30 distinct Windows permission attributes.

### Protected





The N2000 incorporates a comprehensive set of data protection features. RAID protection guards data in the event of a drive failure while Snap Enterprise Data Replicator™ (Snap EDR) software continuously, securely, and efficiently replicates data between sites for disaster recovery. You can take snapshots of both NAS volumes and iSCSI LUNs for point-in-time recovery as well as backup to disk, VTL, or tape through integration with leading 3rd party backup applications. Also, with features like hot-swap drives, redundant power, and variable speed hot-swap fans, the N2000 ensures maximum data availability for your business.



### Highlights

- Simultaneous NAS file-level and iSCSI block-level access
- Shares data across Windows, UNIX/Linux, and Mac OS platforms
- Microsoft Active Directory and UNIX NIS integration
- Snapshots for both NAS volumes and iSCSI LUNs
- Snap Enterprise Data Replicator™ enables multi-directional WAN-based replication
- Mix SAS and SATA drives within the same system
- Supports RAID 0, 1, 5, 6, and 10
- 2U 12-bay appliance that easily scales from 1.2TB - 144TB
- Multi-system management with SnapServer Manager™

## Specifications

<b>Operating System</b>	GuardianOS™
<b>Management</b>	Wizard-based Installation, Volume Usage Statistics, Event Log, Email Notification, Administrator Authentication, Remote Management, Multi-Server Monitoring and Visualization with SnapServer Manager
<b>Network File Protocols</b>	Microsoft Networks SMB (1.0)/CIFS (NTLM); CIFS via Mac OS X; NFS v2, v3, v4 (UDP/TCP); Apple AFP; FTP/FTPS; HTTP/HTTPS (1.1)
<b>iSCSI Support</b>	Included
<b>Snapshots</b>	Snapshots included with VSS provider for Windows
<b>Replication</b>	Optional replication with Snap EDR™
<b>Microsoft Active Directory Support</b>	Operates in both native and mixed domains. Dynamic DNS name resolution
<b>Certifications</b>	VMware Ready
<b>CPU and Memory</b>	Intel quad-core CPU; 2GB DDR3 1333MHz Registered DIMMs
<b>Drive Configuration</b>	4 x enterprise-class 15.7K RPM hot-swappable SAS drives (300GB or 600GB) OR 4 x enterprise-class 7200 RPM hot-swappable SATA II drives (1TB or 2TB) Optional: Expand capacity up to 12 Drives by Purchasing SAS or SATA Drive 4-Packs
<b>RAID Levels</b>	RAID Levels 0, 1, 5, 6, 10
<b>Network Interface</b>	2 x Gigabit Ethernet Ports (autosensing 10/100/1000Base-T, dual RJ-45 network connections) Support for stand-alone, failover, and load balancing modes Optional: Additional Dual Port or Quad Port Gigabit Ethernet Card - PCIe
<b>Expansion Array Interface</b>	Includes external Serial Attached SCSI (SAS) port for expansion, Supports up to 5 SnapServer Expansion E2000 units
<b>USB Interface</b>	2 x USB 2.0 ports; Support for APC brand UPS, tape devices, and printers over USB
<b>Local Backup Interface</b>	Ultra320 SCSI 68-pin LVD VHDCI (optional PCIe card) or USB 2.0
<b>Physical / Mounting</b>	Width: 17.2 in (437 mm), Height: 3.5 in (89 mm) 2U, Depth: 25.5 in (648 mm), Weight: 55 lbs, 19 in rackmount slide rails included Minimum rack depth 32 in (812.8 mm)
<b>Agency Approvals</b>	cULus, FCC Class A, VCCI, C-Tick    
<b>Power</b>	800W auto ranging, hot swappable modules (1+1 Redundant), 100-240VAC, 50-60Hz, 10 - 4 Amp
<b>Environmental Limits</b>	Operating Temperature Range: 10° C to 35°C (50° to 95° F), Operating Humidity Range: 8% - 90% non-condensing operating Altitude: -200 ft to 10,000 ft (0m to 3,048m)
<b>Included with Unit</b>	2 x Cat 5 Ethernet cables, Custom 19 in rackmount slide rails, power cords for US, UK and EU
<b>Standard Warranty</b>	The SnapServer N2000 is covered by a 3-year limited hardware warranty including return to factory hardware support and by a 3-year software warranty including operating system updates and telephone support. SnapServer systems are eligible for enhanced Overland CARE maintenance options to augment the standard limited warranty. Specially priced multi-year Overland CARE support upgrades are available to protect your investment for the life of the product. Support coverage of all Snap Expansion units must be purchased separately and run concurrently with the primary Unit. For more information about Overland Storage services, please contact your reseller.  Call Overland Storage at 1.800.442.7274 or visit us online at: <a href="http://support.overlandstorage.com/">http://support.overlandstorage.com/</a> for full details of all of our service programs.



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