



**Affordable
NAS and iSCSI
RAID Subsystems**

WhiteStor NS Series RAID is the most affordable NAS and iSCSI SATA RAID System available today. NS Series are designed for use in budget constraint applications with a choice of File Level NAS and/or Block Level iSCSI accessed raid solutions. This fully featured subsystem is the result of Storageflex's two (2) decades of data storage experience. Each feature, both form and function, relate to multiple short and long term benefits. The following is a list of features, functions, and benefits.

- Supports NT/2000/2003, Unix and MAC Networks
- Active Directory and NIS Support
- Volume Snapshots
- Expandable Capacity up to 18TB
- Scalable to 16GB Cache
- Single or Dual Xeon Processors
- Hot Swap SATA2 Drive Bays
- Online RAID Expansion
- SAN Ready – iSCSI and NAS
- Redundant Hot Swap Power Supplies*
- Redundant Hot Swap Cooling Fans*
- GUI Remote Management

*16 and 24 Bay Models only



1U 4 Hot Swap SATA2 Bays, Single/Dual Xeon and Single Power Supply, 3TB in 1U of 19" Rack Mount Space!



2U 8 Hot Swap SAS/SATA2 Bays, Single/Dual Xeon and Single Power Supply, 6TB in 2U of 19" Rack Mount Space!



3U 16 Hot Swap SAS/SATA2 Bays, Single/Dual Xeon and Redundant Hot Swap Power Supplies 12TB in 3U of 19" Rack Mount Space!



5U 24 Hot Swap SAS/SATA2 Bays, Single/Dual Xeon and Redundant Hot Swap Power Supplies 12TB in 5U of 19" Rack Mount Space

NS Series iSCSI & NAS Systems are available in 1U, 2U, 3U and 5U 24 Hot Swap SATA2 Drive Bays with internal capacity of up to 18TB of capacity. NS Series were designed to attach to any Ethernet network for File Level NAS and/or Block Level iSCSI host access from Windows, Unix, Linux, Network, Macintosh and VMware Networks.

Self installed Disk Drives

WhiteStor NS Series are designed for the lowest cost solution possible by offering customers the ability to install their own SATA Disks. A long list of certified disk drives are provided to ensure peace of mind computing.

No Additional Hardware, Software, Drivers or Licenses

Each of our NS Series Systems installs in minutes simply by plugging into an available port on an Ethernet Switch and assigning an appropriate IP Address(es). NS Series offers the ultimate in performance for all Windows, Unix, Linux, Network, Macintosh and VMware Networks.

NS Series Specifications

NAS Client Operating Systems Supported	Windows NT/2000/2003 using TCP/IP, MAC using Apple IP, Linux and Unix using NFS including Sun Solaris, HP/UX, IBM AIX, SGI IRIX, FTP & HTTP. Windows NT Domain Integration and NetWare Bindery, NDS, SNMP & DHCP Support.
iSCSI Host Operating Systems Supported:	Multiple Simultaneous Operating Systems Support via iSCSI Initiators from Operating System or iSCSI HBA including Windows 2000, 2003, RedHat 9.0, Linux RedHat Enterprise AS 3.0, SuSE 8.1, Sun Solaris 9.0, VMware ESX 3.0
Directory Support:	Active Directory and NIS
Processor	Single/Dual Xeon 2.8GHZ upgradeable to 3.4GHZ
Memory:	1GB upgradeable to 4GB
RAID Levels Supported:	RAID 0, 1, 10, 5, 50, Single Disk (JBOD) across all 16 disks on 3U and 12 disks per raid group on 5U with one or more automated hot spare disks without human intervention required for automatic rebuilds without data loss nor interruption to data access
GUI Management:	Local or Remote over Remote Desktop or Web Browser
Drive Interface:	SATA2
Hot Swap Drive Capacities:	SATA2 up to 750GB per drive
Maximum Internal Number of Drives:	1U Chassis: 4 SATA2 Disks , 2U Chassis: 8 SATA2 Disks 3U Chassis: 16 SATA2 Disks, 5U Chassis, 24 SATA2 Disks
Maximum External Capacity:	18TB
Host Interfaces:	Dual Gigabit Ethernet RJ45 upgradeable to 10. Embedded iSCSI Target Option using industry standard iSCSI Initiators. 1Gbit Optical Host Interface Optional.
Dimensions:	1U: 1.75"(H) x 17.5"(W) x 26.5"(D), 2U: 3.5"(H) x 17.5"(W) x 26.5"(D) 3U: 5.7"(H) x 17.5"(W) x 26.5"(D), 5U: 8.7"(H) x 17.5"(W) x 28.0"(D)
Power Voltage:	1U/2U: Input Range 90Vac - 264Vac 250W 3U: Input Range 90Vac - 264Vac 650W Redundant Hot Swappable n+1 5U: Input Range 90Vac - 264Vac 930W Redundant Hot Swappable n+1
Fans:	Redundant Hot Swappable n+1 on 3U 16 Bays and 5U 24 Bays
Temperature:	Operating: 5°C - 35°C Non Operating: -20°C - 60°C
Humidity:	Operating: 20 - 80% Non Operating: 10 – 70%
Operating Altitude & Shock:	Sea Level – 3,048 Meters Operating: 10 G or less Non Operating: 175 G or less
Vibration:	Operating: 0.75Gs Non Operating: 2Gs
MTBF:	1,200,000 Hours
Safety Approvals:	FCC, UL, C-UL, CE , TUV
Warranty:	3 Years Return to Factory Warranty, standard. Advance Parts Replacement and Onsite Labour Service Optional.

