



## The Next Generation in RAID Subsystems

Storageflex™ 3945N RAID is the most comprehensive NAS, iSCSI & FC SAN Storage Subsystem available today. The system is designed for use in the most mission-critical fail-safe environments, but flexible enough to provide a complete spectrum of 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.

### Storageflex™ 3945N

- Supports Windows, Unix and MAC Networks
- Active Directory and NIS Support
- Volume Snapshot Automation
- Scalable Capacity up to 1 Petabyte
- Single or Dual Xeon Processors
- RAID 0, 1, 10, 5, 50 & 6 support for Double Parity
- Choice of 7,200SATA, 15,000RPM SAS or Solid State Disks
- Online RAID Expansion
- Available Auto Volume Mirror (Clone) & Auto Replication
- Redundant Hot Swap Power Supplies (Optional on 1U)
- Optional SCSI/FC/iSCSI Device Connectivity
- Optional iSCSI, FC and NAS Simultaneous Host Support
- GUI Remote Management

**3945N iSCSI & NAS Systems** are available in 1U, 2U, 3U, 5U and 8U 74 Hot Swap SAS or SATA Drive Bays with internal capacity of up to 740TB of SAS/SATA Disks/SSDs with RAID Storage before even considering external expansion options. 3945N was designed to attach to any SCSI, iSCSI or Fibre Channel attached RAID Arrays from Storageflex or any other manufacturer while providing NAS and iSCSI Host Connectivity. Up to 1 Petabyte of external storage is possible with Storageflex's 3945N, SJ316 or HA 3969 Subsystems.

#### High Powered Scalability

3945N is a high powered NAS RAID with Dual Gigabit Ethernet Connectivity plus Optional iSCSI Addition. Absolute fault tolerance is possible with optional tape backup or remote replication via block level synchronization.

#### No Additional Hardware, Software, Drivers or Licenses

Each of our NAS Systems installs in minutes simply by plugging into an available port on an Ethernet Switch and assigning an appropriate IP Address(es). 3945N offers the ultimate in performance for all Windows, Unix and MAC Networks.



*1U 4 Hot Swap SATA Bays, Single/Dual Xeon and Single Power Supply, 40TB in 1U of 19" Rack Mount Space!*



*2U 8 Hot Swap SAS/SATA Bays, Single/Dual Xeon and Hot Swap Power Supplies 80TB in 2U of 19" Rack Mount Space!*



*3U 16 Hot Swap SAS/SATA Bays, Single/Dual Xeon and Redundant Hot Swap Power Supplies 160TB in 3U of 19" Rack Mount Space!*



*5U 24 Hot Swap SAS/SATA Bays, Single/Dual Xeon and Redundant Hot Swap Power Supplies 240TB in 5U of 19" Rack Mount Space*



*8U 74 Hot Swap SAS/SATA Bays, Single/Dual Xeon and Redundant Hot Swap Power Supplies, 740TB in 8U of 19" Rack Mount Space*

## Storageflex™ 3945N Specifications

<b>NAS Client Operating Systems Supported:</b>	VMWare, Windows using TCP/IP, MAC using Apple IP, Linux and Unix using NFS including Solaris, HP/UX, IBMAIX, FTP & HTTP. Windows NT Domain Integration and NetWare Bindery, NDS, SNMP & DHCP Support.
<b>iSCSI &amp; FC Host Operating Systems Supported:</b>	Multiple Simultaneous Operating Systems Support via iSCSI Initiators from Operating System or iSCSI HBA including Windows 2003, 2008, 2012, RedHat 9.0, Linux RedHat Enterprise AS 3.0, SuSE 8.1, Sun Solaris 9.0
<b>Directory Support:</b>	Active Directory and NIS
<b>Processor:</b>	One or two Quad Core Xeon upgradeable to Six Core Xeon
<b>Memory:</b>	4GB upgradeable to 64GB
<b>RAID Levels Supported:</b>	RAID 0, 1, 10, 5, 50, 6, Single Disk (JBOD) across all 16 disks on 3U and 24 disks per raid group on 5U/8U with one or more automated hot spare disks without human intervention required for automatic rebuilds without data loss nor interruption to data access
<b>GUI Management:</b>	Local or Remote over Remote Desktop or Web Browser
<b>Drive Interface:</b>	Internal Standard: SAS and SATA External Optional: SAS, SATA or Fibre Channel using external raid array(s)
<b>Hot Swap Drive Capacities:</b>	2 to 10TB 7,200RPM SAS or SATA 300/450/600GB 15,000RPM SAS SSD: 120/240/480GB/1TB SAS or SATA
<b>Maximum Internal Number of Drives:</b>	1U Chassis: 4 SATA Bays 2U Chassis: 8 SAS/SATA Bays 3U Chassis: 16 SAS/SATA Bays 5U Chassis, 24 SAS/SATA Bays 8U Chassis, 48 SAS/SATA Bays in the front, 24 Bays in the rear
<b>Maximum Ext. Capacity:</b>	1 Petabyte
<b>Host Interfaces:</b>	Dual Gigabit Ethernet RJ45 upgradeable to 14. Embedded iSCSI Target Option using industry standard iSCSI Initiators. 12 x 1Gbit Host Interfaces, 8 x 10Gbit and 2 x 8Gbit Fibre Channel Additional Host Interfaces Optional.
<b>Dimensions:</b>	1U: 1.75"(H) x 17.5"(W) x 26.5"(D) 2U: 3.50"(H) x 17.5"(W) x 26.5"(D) 3U: 5.70"(H) x 17.5"(W) x 26.5"(D) 5U: 8.70"(H) x 17.5"(W) x 28.0"(D) 8U: 14.0"(H) x 17.5"(W) x 29.0"(D)
<b>Power Voltage:</b>	1U: Input Range 90Vac - 264Vac 250W 2U: Input Range 90Vac - 264Vac 250W Redundant Hot Swappable n+1 3U: Input Range 90Vac - 264Vac 650W Redundant Hot Swappable n+1 5U: Input Range 90Vac - 264Vac 930W Redundant Hot Swappable n+1 8U: Input Range 90Vac - 264Vac 930W Redundant Hot Swappable n+1
<b>Fans:</b>	Redundant Fixed Fans on 1U/2U. Redundant Hot Swappable n+1 on 3U 16 Bays, 5U 24 Bays and 8U 50 Bays
<b>Temperature:</b>	Operating: 5°C - 35°C Non Operating: -20°C - 60°C
<b>Humidity:</b>	Operating: 20 - 80% Non Operating: 10 - 70%
<b>Operating Altitude &amp; Shock:</b>	Sea Level - 3,048 Meters Operating: 10 G or less Non Operating: 175 G or less
<b>Vibration:</b>	Operating: 0.75Gs Non Operating: 2Gs
<b>MTBF:</b>	1,200,000 Hours
<b>Safety Approvals:</b>	FCC, TuV
<b>Warranty:</b>	90 Days Technical Support. Optional Upgrade with extended warranty backed by Advance Parts Replacement, Onsite Service 9 x 5 x Next Business Day or 24 x 7 x 4 Onsite Service.