



PRODUCT OVERVIEW

Nexsan's InfiniSAN line of disk-based storage solutions delivers the latest in form and function now. The InfiniSAN 2 series provides Enterprise-class features and functionality in a powerful cost-correct expandable package. With either Fibre or SCSI host connectivity the InfiniSAN 2 series allows unlimited flexibility in a SCSI disk-based solution and provides "Next Generation" performance, reliability and superior data availability for the most demanding storage and data-delivery applications.

CORRECT COST ENTERPRISE CLASS RELIABILITY

By eliminating all potential single points of failure, the InfiniSAN 2 series provides unsurpassed fault-tolerance. The Nexsan designed GUI interface, NexScan, provides the latest in centralized management and monitoring features for all InfiniSAN subsystems. On-Line Hot-Swap for all active components, the InfiniSAN 2 series unique run-time diagnostics and error handling software monitors automatic fail over initiation for all active components and provides the maximum uptime operation in the most data protected environment available today.

STORAGE VIRTUALIZATION

Utilizing Veriture, Nexsan's innovative virtualization application, the InfiniSAN 2 series offers the latest advances in on-line configuration. Nexsan's Veriture application allows storage pools and virtual volumes to be built dynamically from unique physical storage devices.

Advanced features include:

- Snap Shot, Bit level replication and Virtual Tape.
- On-Line Capacity Expansion (OCE), Dynamic Spares Allocation (DSA). Hot spare drives can be added and deleted either as a pool or an array dedicated spare.
- Dynamic Array Expansion (DAE) and Dynamic Partition Expansion (DPE)

Tele-Guard™ / NexScan™

Tele-Guard™ is Nexsan Technologies' phone home feature incorporated within the InfiniSAN line of storage solutions. Utilizing NexScan™ our WEB enabled GUI (Graphical User Interface), you can access your system from any standard internet browser. In addition, NexScan™ is platform independent and can be accessed directly from a host computer or over a LAN or WAN. No software patches required.

NexScan™ uses standard html eliminating any need for special client software. Tele-Guard™ monitors all system parameters and you can select either single or multiple user alerts to be sent via 'plain language' e-mails, Internet based SMS notification or Tele-Guard's™ pager support.

RAIDEngine II™

The InfiniSAN 2 technology incorporates the Nexsan RAIDEngine II™ memory controller. Featuring an 800 Mbytes/sec PC-133 ECC SDRAM memory interface partnered with Nexsan's XOR RAID parity hardware, the RAIDEngine II™ capitalizes on Nexsan's unique approach to rapidly transfer data between the requester or host and the InfiniSAN 2 storage management system. The RAIDEngine II™ technology virtually eliminates system overhead generating the maximum in data throughput.

HIGHLIGHTS

- OS independent - No special software drivers required to connect to host system.
- On line capacity expansion allows reconfiguration without interruptions.
- Nexscan™, our Web enabled GUI, provides system configuration, event and component monitoring from any standard web browser.
- Storage Virtualization provides centrally managed storage pooling and virtual volume allocations.
- Virtual data volumes can be dynamically created, expanded, deleted or moved from place to place.
- Storage Pools and Volumes can be built from different physical storage Storage Devices.
- Full Fabric or 160 LVDS host and device channels.
- Fibre Channel interfaces feature "Intellegent Hub Logic"
- Single or Dual SCSI target host connectivity.
- Active-Active, All components / connections are redundant and hot pluggable with automatic failover and load balancing.
- Expandable SDRAM cache memory.
- 15,000-30,000 IOPS - Single / Dual controller capable.
- Multi-Box - Ability to view graphical representations of attached storage enclosures within main status frame.



ADVANCED FEATURES

- Continual event monitoring with active user notification.
- On-line capacity expansion, Fibre or SCSI - No power cycling required.
- Dynamic spare pooling and dedicated spares; array verification.
- All active components hot-swap supported.
- Active array status monitoring; adjustable stripe width; automatic sector remapping.
- Write-back data cache memory bus, 800 Mbytes/sec bandwidth.
- User-settable priorities for dynamic array reconstruct, verify, create, and expand operations.
- Centrally or remotely managed dynamic storage pooling and virtual volume allocations.
- Veriture™ - Volume Replication, Remote Mirror, Snapshot, Compression/Encryption, Virtual Tape.
- System security password protected.
- Serial port and Network (10 BT) access.
- All system settings are stored in non-volatile flash memory in case of accidental power loss.
- Alarm status displayed on the events page directly translated from and associated with the occurrence.
- Arrays can be configured for RAID levels 0, 1, 0/1, 3, 4, 5, 10, 50, JBOD.
- Up to 48 independent logical arrays per subsystem.
- JBOD disk insertion and removal monitoring and reporting.
- Auto rescan - initiates automatic system scans for real-time "Correct Status" reporting for all RAID arrays and connected disk drives.
- Parity Scrub / Array Verify scheduling - User defined automatic repair of all configured arrays.
- Show-Start - Displays captured start-up messages automatically at power up, re-start or upon a user initiated kill/un-kill operation to graphically assist in trouble shooting incorrect configurations/setup etc.



1 The front door cam mechanism offers soft insertion and ejection of the drives to eliminate gyroscopic damage to the disc drive.

2 Anti-Rotational Vibration (ARV) drive guides absorb vibration on all three axis for maximum performance and reliability.

3 Each drive bay has its own auto-venting front door mechanism which maintains the thermal characteristics of the unit even when not fully populated with drives.

The extruded aluminum drive shuttles offer the optimum combination of convective and conductive cooling by channelling the airflow over drive hot spots.

4 All units are cooled by incorporating two high-pressure centrifugal blowers within the power modules. These have true RPM monitoring and predictive failure reporting. Redundant (N+1) power supplies are designed for RAID.

5 Multiple RAID, DAS and SAN reconfiguration. All active components dock into a passive midplane, eliminating cables and offering an upgrade path to technology advancements.

TECHNICAL SPECIFICATIONS

INFINISAT 2

Host Interface / Connectivity	U160/U320 SCSI, Fibre
Orientation	8 bay / Rack(4U) Tower or InfiniStack
Cache	128(256)
Battery Back-up	Yes / Integrated NiMH
RAID Levels	0,1,0/1,3,4,5,10,50,JBOD
Sustained Data Rates	180 MB/sec
IOPS	>15,000
Luns Supported	32
Power	Dual 300 Watt PSU
Cooling	Dual Fans

