



NS-SAN SCSI

- Supports Multiple Servers and Operating Systems
- Flexible and Scalable
- Carrier Class Reliability - NEBS Level 3 Certified
- Enterprise Class Features
- Local/Remote Management from a Single Console
- Stores up to 1.75TB in 2U - Expandable to 5.25TB



NS-SAN SCSI is a compact, rugged, high performance, 12-drive RAID storage system that is specifically designed for applications such as image processing, Web streaming, e-mail, messaging, file, print and database servers.

Superior Value

Built with Network Synthesis' OpenAxis Intelligence, NS-SAN SCSI easily integrates into diverse network environments and is compatible with most of today's popular server platforms including Windows, Linux and all flavors of Unix.

The initial set-up is simple because NS-SAN SCSI is factory configured. Just install the host adapter, attach a SCSI cable, power on the system and you're done! And, because it directly connects to open systems servers without network switches, it reduces complexity and cost.

Flexible and Scalable

NS-SAN SCSI supports 36, 73, and 146GB drives with 10,000 or 15,000 RPM speeds. Easily scale storage capacity by adding disks and enclosures as needed. Start with 72GB and grow to 1.75TB in just 3.5 inches of rack space. Need more? Add up to 24 additional drives for a capacity up to 5.25TB.

World-class Performance

With two Ultra160 SCSI host connections, NS-SAN SCSI provides sustained data transfer rates up to 210MB per second and up to 40,000 I/Os per second. This speed, combined with the load-balancing capabilities of Network Synthesis' SANpath® software, delivers unmatched performance and data availability.

Reliable and Serviceable

Continuous access to information is essential to your business. NS-SAN SCSI is independently certified to NEBS Level 3 and Mil-Spec standards - providing you with "carrier-class" reliability. Your data is safe with the highest uptime offered in today's marketplace at 99.9998+ % - that's less than 40 seconds of downtime a year.

NS-SAN SCSI offers high availability for your critical applications by providing 100% redundant and hot-swappable components. These include N+ 1 RAID controllers, dual fans and power supplies, disk drives, event monitoring units and battery-backed cache memory.





Host System Interface

- Number of Ports: Up to three (user configurable)
- Type: Ultra160 SCSI Low Voltage Differential (LVD) (Ultra320-ready)
- Maximum length: 12 m

Disk Drives

- Drive Channels: Up to three (user configurable)
- Form factor: 3.5 in., 1.0" low profile
- Interface: Ultra160 SCSI (Ultra 320-ready)
- Supported drives: 36GB, 73GB and 146GB @ 10,000 RPM, 36GB and 73GB @ 15,000 RPM

Configurations

- JBOD: Twelve bays for disk drives
 - Single or dual bus options (user configurable)
 - Two hot-swap power supplies, each with dual fans
 - Two hot swap event management units
- RAID: Expandable to twelve bays
 - Single or dual bus option (user configurable)
 - Two hot-swap power supplies, each with dual fans
 - Two hot-swap event management units
 - Single or dual hot-swap RAID controllers
 - 512MB of battery protected cache per controller

Reliability, Availability & Serviceability

- Hot-swap Redundancy: Disk drives; Power supplies with fans; Event management units; RAID controllers with cache and battery backups (hot-swap with two RAID controllers) (hot-serviceable with one RAID controller)
- High Availability: RAID levels 0, 1, 0+1, 3, 5, 10, 30 and 50 protection; 99.9998+ % availability rating; Minimum 72-hour cache memory hold-time
- Hot Serviceable: Online RAID firmware updates; input/output modules

Electrical Specifications - AC Input

- Voltage: 100-240 VAC, single-phase
- Power: 90-132 VAC (47-63 Hz) or 180-264 VAC (50-60 Hz)
- Current: 100-240V~ 50/60 Hz, 5.0-1.7A per input

Electrical Specifications - DC Input

- Voltage: -48/-60 VDC
- Power: -36 to -75 VDC
- Current: 18A per input

Environments - Operating

- Temperature: 5°C to 40°C (41°F to 104°F)
- Humidity: 10% to 90% relative at 38°C (non-condensing)
- Altitude: -30 m to 3048 m (-100 to 10,000 ft.)
- Shock: 5.0 G, 11ms, half-sine
- Vibration: 0.2 G, 5 Hz to 500 Hz, swept-sine

Environments - Non-operating

- Temperature: -40°C to 65°C (-40°F to 149°F)
- Humidity: 0% to 90% relative at 27°C (non-condensing)
- Altitude: -30 m to 12,192 m (-100 to 40,000 ft.)
- Shock: 15.0 G, 11ms, half-sine
- Vibration: 1.0 G, 5 Hz to 500 Hz, swept-sine

Certifications

Meets or exceeds the following requirements:

- NEBS Level 3 (GR-63-CORE; GR-1089-CORE); MIL-STD-810F; ETSI EN 300 386
- Safety: UL Listed UL 60950:2000; CSA-C22.2 No. 60950-00; EN 60950:2000; IEC 60950; TUV; CB Scheme; GOST-R Mark; S-Mark; GS Mark
- Emission: FCC Part 15 Class B; CISPR 22 55022:1998 Class B; ICES-003; VCCI Class B; EN AS/NZS 3548:1996; BSMI CNS 13438 Class B; S-Mark
- Harmonics: IEC 61000-3-2:2000; IEC 61000-3-3:1995/A1:2001
- Immunity: CISPR 24 EN 55024

Dimensions and Weights

- Height: 8.8 cm (3.5 in.) (2U)
- Width: 44.7 cm (17.6 in.)
- Depth: 53.3 cm (21.0 in. maximum)
- Weight: 22.7 kg (50.0 lb. maximum)

