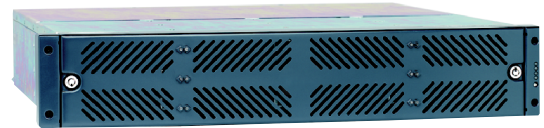




NS-SAN FC

- 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 28TB



NS-SAN Fibre Channel 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 Fibre 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 Fibre is factory configured. Just install the host adapter, attach a Fibre Channel 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. For larger environments, NS-SAN Fibre connects to standard Fibre Channel fabric seithes to support hundreds of servers.

Flexible and Scalable

NS-SAN FC 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? Scale up to 192 drives for capacity up to 28TB.

World-class Performance

With two 2Gbit Fibre Channel host connections, NS-SAN FC provides sustained data transfer rates up to 1,400MB per second and up to 160,000 I/Os per second. This speed, combined with the load-balancing, multi-pathing capabilities of Network Synthesis' software, delivers unmatched performance and data availability.

Reliable and Serviceable

Continuous access to information is essential to your business. NS-SAN FC 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 FC offers high availability for your critical applications by providing 100% redundant and hot-swappable components. These include N+ 1 I/O cards 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 eight (user configurable)
- Type: 1 Gbit/2 Gbit autonegotiated Fibre Channel (FC), FC-AL, FC-SW, FC-SW2
- Maximum length: 250 m
- Secure mapping of up to 1024 LUNs

Disk Drives

- Drive Channels: Two or Four (user configurable)
- Form factor: 3.5 in., 1.0" low profile
- Interface: 1 Gbit/2 Gbit autonegotiated Fibre Channel (FC)
- Supported drives: 36GB, 73GB and 146GB @ 10,000 RPM, 36GB and 73GB @ 15,000 RPM

Configurations

- JBOD: Twelve bays for disk drives
 - Redundant disk drive loops
 - Two hot-swap power supplies, each with dual fans
 - Two dual-port hot-swap I/O cards
- RAID: Expandable to twelve bays
 - Redundant disk drive loops
 - Two hot-swap power supplies, each with dual fans
 - Single or dual hot-swap RAID controllers with event management unit
 - 1GB of battery protected cache per controller
 - Hot-swap cache battery per controller

Reliability, Availability & Serviceability

- Hot-swap Redundancy: Disk drives; Power supplies with fans; RAID controllers with cache and event management units; 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

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)

