

## SN-2500 R2

### SAN Storage Subsystem

The SN-2500 R2 provides external SAN storage optimized to deliver up to 48 TB capacity with a variety of RAID levels. This 2U storage platform provides an excellent integration path for data storage and disaster recovery for your mission-critical security, storage, networking and communications applications. Fully tested by NEI engineers in a communications environment and with NEI's knowledge and expertise gained through more than 15 years of industry experience, you can be assured that the SN-2500 R2 will meet your storage requirements both now and in the future.



### Features and Benefits

#### Density and Scalability

- Higher storage density per rack than all class competitors with 12 drive bays per system
- Scales up to four chassis or 48 drives for maximum expansion:
  - SAS scales to 600 GB chassis or 28.8 TB total
  - SATA scales to 1 TB per chassis or 48 TB total

#### Flexibility

- SAS, SATA-II drives are supported to meet application requirements
- SAS, iSCSI or FC server connectivity

#### Reliability

- RAID 0, 1, 3, 5, 1+0, or JBOD support for high data integrity
- SAS drives for high reliability and high Mean-Time-Between-Failures
- Hot-swap power supplies, fans, hard drives and RAID controllers for low Mean-Time-to-Repair
- Redundant power, cooling and drives for maximum uptime
- Built-in volume snapshot capability allows point-in-time copies to maximize business continuity
- Fully NEBS Level 3 certified for maximum availability in harsh environments
- Two temperature sensors are located on the backplane that allows drive cage temperature monitoring by enclosure management

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#### Density and Scalability

- 12 drives per 2U subsystem

#### Reliability

- Redundant hot-swap power, cooling fans, controllers and hard drives
- Fully validated with ATCA blades and NEBS servers
- Full NEBS Level 3 and ETSI certification
- RAID 0, 1, 3, 5, 1+0 or JBOD

#### Flexibility

- SAS and SATA-II drive support
- Redundant hot-swap AC or DC power

NEI combines expertise in storage, security and carrier-grade communications and enterprise communications with the broadest range of hardware platforms and services to meet the exact needs of your application. Lower your total cost of ownership, accelerate your time to market, manage investments in the field and focus on your core competencies by partnering with NEI.

<b>Storage Architecture</b>	SAN in a 2U rack mount chassis NEBS compliant with 21-inch depth
<b>Storage</b>	12 hot swap drives per system; 48 drives per JBOD 146 GB, 300 GB, 450 GB and 600 GB SAS drives at 15K RMP 500 GB, 750 GB, 1 TB SATA drives at 7200 RPM
<b>Capacity</b>	Using one SN-2500 R2 chassis <ul style="list-style-type: none"> <li>■ SAS Drives: 146 GB 15,000 RPM 3 Gb/sec, 1.75 TB 300 GB 15,000 RPM 3 Gb/sec, 3.6 TB 450 GB 15,000 RPM 3 Gb/sec, 5.4 TB 600 GB 15,000 RPM 3 Gb/sec, 7.2 TB</li> <li>■ SATA Drives: 500 GB 7,200 RPM 3 Gb/sec, 6.0 TB 750 GB 7,200 RPM 3 Gb/sec, 9.0 TB 1.0 TB 7,200 RPM 2 Gb/sec, 12.0 TB</li> </ul>
<b>JBOD Expansion</b>	To four SN-2500 R2s for total capacity of: <ul style="list-style-type: none"> <li>■ 14.4 TB using 400 GB SAS drives or</li> <li>■ 48.0 TB using 1 TB SATA drives</li> </ul>
<b>Dimensions</b>	86.1 mm (3.39 inches) height 448.6 mm (17.66 inches) width 540 mm (21.26 inches) depth
<b>Weight</b>	59.55 lbs.
<b>RAID</b>	<ul style="list-style-type: none"> <li>■ Levels: RAID 0, 1, 3, 5, 1+0 or JBOD</li> <li>■ Cache: 512 GB or 1 GB per controller</li> <li>■ Cache Backup: Optional battery, 72 hours</li> <li>■ Arrays: One to 32 per system</li> <li>■ Partitions: One to 32 per array</li> <li>■ Volumes: One to 1024 per system</li> <li>■ Controllers: Single or dual hot swap RAID controllers per enclosure</li> </ul>
<b>Interfaces</b>	<ul style="list-style-type: none"> <li>■ Two 4 Gbps FC ports per controller</li> <li>■ Three x4 SAS links per controller</li> <li>■ Two 1 Gbps iSCSI ports per controller</li> <li>■ Two 10/100 Base-T Ethernet ports</li> <li>■ Two 9-pin RS-232 serial ports per dual controller tray</li> </ul>
<b>OS Client Support</b>	Windows 2008, 2003 (32/64 bit), Linux 32/64 bit, RedHat Enterprise Linux 4.0, 5.0 SUSE Linux 9.0, 10.0 and Solaris 10

<b>Power</b>	Redundant hot swap 300 W AC or DC power AC power - 515 W (+5V @ 19A/+12V @ 35A) DC power - 17 A max operating Nominal Range: -42V to -60V Max range: -36V to -72V
<b>Regulatory</b>	NEBS level 3 (GR-63-CORE, CR-1089-CORE) FCC Class A, VCCI Class A, EN55022 Class A, EN 55024 UL BSM, C-tick, RoHS, WEEE
<b>Operating Environment</b>	<ul style="list-style-type: none"> <li>■ Temperature: 10° to 40° C (50° to 104° F) without battery 10° to 35° C (50° to 95° F) with battery</li> <li>■ Relative Humidity: 20 to 80% non-condensing</li> <li>■ Altitude: 68.3 kPa (3,200m), 40° C, four-hour dwell</li> <li>■ Shock: 5.5 Gs, 11 ms, half-sine, ten shocks per direction, all six directions</li> <li>■ Vibration: All three axes: 0.25 Gs, 5 to 500 Hz, swept-sine, five sweep cycles, one octave per minute</li> <li>■ Heat Output: 460 W (1,571 BTU/hr)</li> </ul>
<b>Non- Operating Environment</b>	<ul style="list-style-type: none"> <li>■ Temperature Storage: 10° to 50° C (-14° to 122° F) without battery 10° to 45° C (-4° to 140° F) with battery (three month max)</li> <li>■ Temperature Transit: 40° to 60° C (-40° to 140° F) without battery -20° to 60° C (-4° to 140° F) with battery (one week max)</li> <li>■ Humidity Storage: 10 to 90%, max dew point is 26° C (79° F), 10% per hr gradient</li> <li>■ Altitude: 18.8 kPa (12,200M), 40° C, four-dwell [1]</li> <li>■ Shock Storage: 20 G, 8.0 msec square wave in each direction along x, y, and z axes</li> <li>■ Shock Transit: 33 Gs, 11 msec, half-sine, three shocks per direction, all six directions</li> <li>■ Vibration: All three axes: 1.2 Gs, 5 to 500 Hz, swept-sine, five sweep cycles, one octave per minute</li> </ul>

### Support and Maintenance Services

NEI offers a variety of support and maintenance service programs to ensure high availability, rapid response, effective troubleshooting, fast parts replacement and 24-hour support. Please visit [www.nei.com/supportservices](http://www.nei.com/supportservices) for more information.



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