

# NEC ST1400 DISK EXPANSION SYSTEM User Guide

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## EXPRESS5800™ ST1400

As your organization continues to demand more storage capacity, the need for value-priced external storage increases.

The NEC Express5800 ST1400 disk expansion unit delivers a cost-effective combination of performance, reliability, and expandability.

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*The Fault-Tolerant, High Performance, Disk Expansion System for NEC Express5800™ Servers*

## **EXPRESS5800™ ST1400 DISK EXPANSION SYSTEM**



**N**EC Computer Systems Division delivers the ST1400 Disk Expansion System, an external disk expansion unit that is designed to help you grow storage capacity beyond the internal limits of your server. With up to 14 hot-swap drive bays, redundant cooling fans, and hot-swap redundant power supplies, the NEC Express5800 ST1400

expands your fault-tolerant capabilities and can be shared between two clustered or non-clustered servers to stretch a budget.

The ST1400, affordably priced, holds up to 252GB<sup>1</sup> of storage (2 channels at 126GB each), and can be configured as a JBOD, PCI host bus RAID, or FCAL-LVDS hub RAID unit.

**NEC**

## EXPRESS5800™ ST1400

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The NEC Express5800 ST1400 disk expansion unit delivers a cost-effective combination of performance, reliability, and expandability.

### KEY FEATURES

- Holds up to 14 hot-swap hard disks
- Expands to 252GB<sup>1</sup> of storage in a single cabinet

- Can be configured as a JBOD, PCI host bus RAID, FCAL-LVDS hub RAID, single-FCAL hub active/active RAID, or dual-FCAL hub active/active RAID unit
- SAF-TE-compliant cabinet and management software
- Redundant cooling fans, hot swap disk drives, and hot-swap/redundant power supplies

### SERVICE AND SUPPORT

To help ensure your complete satisfaction, each NEC Express5800 server comes with NEC UltraCare™ limited warranty and support service<sup>2</sup>. These services are designed to meet the demands of your business-critical computing environment.

Each Express5800 ST1400 disk expansion unit comes standard with a 3-year on-site limited warranty for parts and labor at no additional cost. This includes toll-free technical support 24 hours a day, 7 days a week.

For an additional cost, the standard service and support package on each Express5800 Disk Expansion System may be upgraded by adding a 24 x 7 on-site support option and/or a 4-hour response service option<sup>2</sup>.

# NEC EXPRESS5800 ST1400 TECHNICAL SPECIFICATIONS

## ENCLOSURE

Floor Standing Tower Model  
19" Rack Model (6U)

## MAXIMUM STORAGE CAPACITY PER CABINET

252GB<sup>1</sup>

## HOT-SWAP BACKPLANES AND DISK BAYS

### 2 Each Ultra2 SCSI (LVDS) Backplanes:

Backplane 1—Contains 3 x 1.6" and 4 x 1.0" Hot-Swap Disk Bays  
Backplane 2—Contains 3 x 1.6" and 4 x 1.0" Hot-Swap Disk Bays

## POWER SUPPLIES

Dual Redundant Hot-Swap 300W (each) 100-120VAC/200-240VAC Switch Selectable with Separate AC Inputs Standard

## COOLING FANS

Redundant

## CHASSIS DIMENSIONS

**Tower:** 21.0" H x 11.3" W x 23.0" D  
**Rack:** 7U (11.3") H x 21.0" W x 23.0" D

## WEIGHT

110lbs Max.

## RAID IMPLEMENTATION AND SYSTEM INTERFACES

### JBOD (SCSI):

1-Channel PCI QLogic Symbios SYM8952U Ultra2 (LVDS) Host Adapter

### PCI Bus RAID:

1-Channel PCI NEC SecuRAID 210 Ultra2 (LVDS) RAID Controller (16MB or 32MB Cache)  
3-Channel PCI NEC SecuRAID 530 Ultra2 (LVDS) RAID Controller (16MB, 32MB, or 64MB Cache With or Without Battery Backup)

### Hub FCAL-LVDS RAID:

PCI QLA2100 FCAL Host Adapter  
Mylex DAC960FL FCAL-LVDS RAID Bridge (requires FCAL host adapter) 32MB or 64MB Cache

## SUPPORTED NETWORK OPERATING SYSTEMS

Microsoft® Windows NT® Server 4.0 Certified  
Windows NT Server Enterprise Edition 4.0 Certified  
MSCS Certified  
Novell NetWare 4.11 Certified

## SYSTEM MANAGEMENT

Global Array Manager GAM™ (Standard with RAID options)  
SAF-TE-Compliant Cabinet

## ENVIRONMENTAL

**Ambient Temperature:** OPERATING: 40° F to 94° F (5° C to 34° C)  
NON-OPERATING: -40° F to 140° F (-40° C to 60° C)  
**Relative Humidity:** OPERATING: 5%-95% (non-condensing)  
NON-OPERATING: 5%-95% (non-condensing)  
**Acoustic Noise:** IDLE: Less than 55dBA  
OPERATIONAL: Less than 60dBA

## HARD DISK OPTIONS

**9GB<sup>1</sup>:** 1.0" 7200rpm, 1.0" 10Krpm  
**18GB<sup>1</sup>:** 1.0" 7200rpm, 1.0" 10Krpm

## HOST ADAPTER AND CONTROLLER OPTIONS

**SCSI Host Adapter:** Symbios SYM8952U  
**PCI RAID Controller:** NEC SecuRAID 210, NEC SecuRAID 530  
**FCAL Host Adapter:** Q-Logic QLA2100

## REGULATORY COMPLIANCE

FCC, CSA and VDE Class B  
UL, TUV and CE

## SERVICE AND SUPPORT

3-Year, Limited On-Site, Next Business Day Response<sup>2</sup>

<sup>1</sup> When referring to hard drive capacity, GB stands for one billion bytes. Some utilities may indicate varying hard drive capacities. Total user-accessible capacity may vary depending on operating environments.

<sup>2</sup> Certain restrictions apply. To obtain a free copy of our limited warranty, call 1-800-632-4525, write to NEC CSD, ATTN: Warranty Department, 8285 West 3500 South, Magna, UT 84044, or see your nearest authorized reseller.



NEC Express5800 systems are tailored to meet today's business needs and tomorrow's challenges. For more information, contact your authorized NEC CSD reseller, or visit our web site at [www.nec-computers.com](http://www.nec-computers.com). ©1999 NEC Computer Systems Division, Packard Bell NEC, Inc. All rights reserved. Express5800 is a trademark of NEC Corporation used under license. Microsoft, Windows and Windows NT are registered trademarks and Windows NT logo is a trademark of Microsoft Corporation. All other trademarks and registered trademarks are property of their respective owners. The information in this publication and specifications are subject to change without notice.

NEC Computer Systems Division, Packard Bell NEC  
1 Packard Bell Way, Sacramento, CA 95828

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