

RELIANCE



Reliance SPR Series Server

Key Features

- SuperServer 8052-6 Pedestal Chassis (SC3-S200) w/ Triple Hot-swap 700 Watt Redundant Power Supply
- SuperServer 8042-6 4U Chassis (SC4-S200) w/ Triple Hot-swap 700 Watt Redundant Power Supply
- Intel® Xeon™ MP Processors, Quad Processor Ready
- 1.5 GHz to 2.8 GHz CPU
- 400 MHz Front Side Bus (FSB)
- ServerWorks® Grand Champion HE Chipset
- 32 GB ECC DDR SDRAM Memory
- Integrated ATI Rage XL Video Controller with 8 MB Video Memory
- Triple Peer PCI-X Slots
- Adaptec® Dual Channel Ultra160 SCSI
- Intel® PRO Network 10/100 Ethernet
- Up to Three USB Ports
- Intel® Server Management Software
- FCC DoC, UL Listed, EPA Energy Star Compliant

The Reliance SPR Series, free standing pedestal or 4U rack optimized, quad Xeon™ server delivers unsurpassed headroom, reliability, and scalability. Specifically built to function in SMB, government, and education environments, the SPR Series, will effortlessly facilitate any workgroup or departmental need. Whether hosting specific purpose mission-critical applications or deploying Internet infrastructure programs, this dual processing power of the SHV Series, utilizing up to four Intel® Xeon™ MP processors with Hyper-Threading Technology, coupled with a 400 MHz system bus and hot-swappable management capabilities, will instill an immeasurable level of assurance of operational performance with minimal interruptions. With its immense memory expansion capacity, up to 32 GB of four-way interleaved ECC DDR SDRAM support, along with dual channel Ultra 160 SCSI capability, the Reliance SPR Series may perhaps be the absolute BEST scalable server available in today's marketplace. These integrated components, along with other expandable and configurable options, make the Reliance SPR Series highly economical without sacrificing performance or reliability.



Models SC3-S200 & SC4-S200 Reliance SPR Series Server

Processor

Quad Intel® Xeon™ MP Processors with Hyper-Threading Technology
603-pin Socket INT-mPGA
Intel® NetBurst™ Microarchitecture
400 MHz Front Side Bus (FSB)
1.5 GHz to 2.8 GHz CPU

Chipset

ServerWorks® Grand Champion HE Chipset
ServerWorks® 1 - CMIC - HE North Bridge
ServerWorks® 1 - CSB6 South Bridge
ServerWorks® 1- 3 CIOB-X, CIOB-E I/O Bridges
PCI Local Bus Specification Revision 2.2 and PCI-X 1.0A Compliant

BIOS

4 Mb Flash EEPROM
AMI® BIOS - Plug & Play, SMBIOS 2.3, ECC/Parity support, Multilingual support
IDE Drive Autoconfigure
Automatic Hard Disk Detection
Built-in Password Protection
Hardware BIOS Virus Protection
Supports IDE CD-ROM or SCSI Bootup
Enhanced Advanced Configuration and Power Interface (ACPI)
PC '99 Compliant

Cache

12k uop and 8 KB Data, Level 1 Execution Trace Cache
512 KB Advanced Transfer L2 Cache w/ 8-way Associativity & Error Correcting Code (ECC)
1 MB or 2 MB L3 Cache w/ 8-way Associativity & ECC

System Memory

Sixteen (Four-way Interleaved) DIMM Sockets (Memory Expansion Card)
Supporting Registered ECC DDR200 SDRAM
128 MB, 256 MB, 512 MB, 1 GB and 2 GB DIMMs
Maximum Memory Capacity of 32 GB

Server Management

Intel® Server Management
Auto Stop of CPU Fan in Suspend Mode to Save Power
Auto Slow-Down of CPU when overheating is detected
Power Supply Voltage Monitoring and Alert
Chassis Intrusion Alarm and Logging
Fan Status/Temperature Monitoring and Alert
System Resources: Memory & Hard Disk Drive Utilization Monitoring & Alert

Integrated Super I/O

One Parallel Port
Two Serial Ports: Two External 9-pin
One Floppy Controller, 1.44 MB, 2.88 MB, 3-mode Support
Two PS Ports: Keyboard and Mouse
Three USB Ports: Three Ports Rear Stacked and Two via Internal Header

LAN/SCSI Interface

Adaptec® Trident II (AIC7899) Dual Channel Ultra160/LVD SCSI Controller
Two 68-pin "Wide" SCSI Connectors
Channel A: Up to 5 Devices using Standard Ultra2 LVD Cable
Channel B: Up to 5 Devices using Standard Ultra2 LVD Cable
SAF-TE Compliant SCA Backplane w/ QLogic GEM Enclosure Controller
One Intel® PRO/100 + Network Connection:
One 10/100 Intel® 82550PM Fast Ethernet Controller
Integrated IEEE 802.3 10Base-T, 100Base-TX, and 1000Base-TX Compatible PHY

Integrated PCI IDE/RAID

2 Enhanced IDE Channels
Supports 4 IDE Devices
Supports PIO Modes 3 & 4 (17 MB/sec maximum)
Supports Bus Master Ultra DMA/33 (33 MB/sec maximum)
Supports Bus Master Ultra DMA/66 (66 MB/sec maximum)
Supports Bus Master Ultra DMA/100 (100 MB/sec maximum)
ATAPI CD-ROM Supported
Adaptec® Zero-Channel RAID Support (Optional)
2 Independent Channels - PCI Bus Master IDE Ports
Supports Bus Master RAID Levels 0, 0/1, 5, 0/5, JBOD

Integrated Graphics Adapter

ATI® Rage® XL SVGA PCI video controller with 8 MB Video Memory

Expansion Slots

Six PCI-X Slots

Bus Architecture

64-bit/100 MHz PCI-X

Housing Configuration

SC3-XXXX Pedestal Chassis
SC4-XXXX 4U Rackmount Chassis

Dimensions (d) x (w) x (h) inch

SC3-XXXX 22.8" X 14.9" X 19.9"
SC4-XXXX 26.2" X 17.5" X 7.0"

Drive Bays

Slim CD-ROM/Floppy: 1 (SC3) / 1 (SC4)
5.25" External: 3 (SC3) / 0 (SC4)
3.5" External: 2 (SC3) / 0 (SC4)
3.5" Hot Plug: 10 (SC3) / 4 (SC4)

Power Supply Features

Input Frequency: 50 ~ 60 HZ
700 Watts Redundant (350W x 3):
Input Voltage: 100 ~ 225 VAC Full Switchable
Input Current: 18 Amp @ 115 VAC / 9 Amp @ 230 VAC
+5V 40 A (SC3) / 30 A (SC4)
+5V Standby 1.6 A maximum
+12V 24 A (SC3) / 25 A (SC4)
-12V 1 A
+3.3V 30 A (SC3) / 28 A (SC4)

Environmental

Operating Temperature: +10° to +35° C / +50° to 95° F
Storage Temperature: -40° to +70° C / -42° to +158° F
Relative Humidity: 90% RH @ +35° C / +95° F
Acoustics: < 55dBA in Idle State in Normal Office Environment
Electrostatic Discharge: 15 kV per Intel® Test Specification

Regulatory & Product Certifications

EMI/RFI: FCC Declaration of Conformity (DoC)
Safety: Underwriter Laboratories 1950, 1st Edition

Options

Intel® RAID Controller SRCZCR (Modular ROMB)
9 mm Cooling Fans
8 x 8 cm Cooling Fans
Hard Disk Drive Brackets

NCS Technologies, Inc.

9490 Innovation Loop Voice: (703) 621-1700
Manassas, VA 20110 Toll-Free: 1 (888) RING-NCS
www.ncst.com Fax: (703) 621-1701

