

SDRCB

Performance Density 1U/2U Server



A symmetric dual FC-PGA CPU

Supports latest 133MHz/100Mhz Front Side Bus

PC 133 Memory supports up to 4GB ECC SDRAM

3 slots of 64bit/66MHz PCI provide excellently expansion performance

Highly integrated Dual Ethernet & Ultra 3 SCSI Plus VGA

25 °DIMM sockets for 1U/2U performance density needs

Integrated RioworksTM SmartWatchTM server management

SDRCB scales up the whole system performance from supporting of CPU 133FSB, PC133 memory and the 64bit/66MHz PCI bus with dual Ultra3 SCSI supporting. Furthermore, SDRCB integrating dual NIC controller plus onboard VGA solution is the optimized configuration for 1U/2U server application, focus on performance density.

This performance density SDRCB also reserves a 3 PCI slot riser for user expansion.

Features / Benefits

Flex/Upscale CPU Solution

FC-PGA supports both the Latest Coppermine 133FSB (Front Side Bus) and 100FSB.

Configured to the Symmetric Dual-capable system

Applied to the latest design, SDRCB architecture is transparent to adopt the second CPU upgrade, as well as the multiprocessing/multithreaded environment for the standard operating system and application software. Starting from basic single CPU, you shall double the system processing power to protect your investment for the business growth needed - simple adds on the second CPU.

Upsize the Memory bandwidth and capability

The PC133 memory architecture increases the memory subsystem throughput to 1.0GB/s with Unbuffered or Registered SDRAM. The four DIMM sockets provide system memory up to 4GB with ECC support. Moreover, the 25°DIMM sockets can best fitted 1U limited height.

Dual PCI bandwidth

The SDRCB provides one concurrent 64bit/66MHz channel additional to 32bit/33MHz PCI bus. The overall PCI bandwidth would expand to 666 MB/s (533MB/s+133MB/s) to provide excellent business expansion performance/capability.

VGA onboard

The onboard VGA with 4M memory shall meet server graphic requirements and eliminate users the hassle, time-consuming and considerable expense of purchasing and installing costs.

Highly integrated Ethernet/U3 SCSI

Designed for business mission oriented system, the SDRCB embeds two 10/100Mb LAN controllers and multithreading dual U3 SCSI functions onboard. The optimized integration SDRCB is the best fitting for 2U performance density environments.

PC'99 Compliant Color-coding I/O Connectors

This colored VGA/serial/parallel/USB/audio(line-in/line-out-MIC) connectors will make your system installation and maintenance easier.

Hardware Monitor and System Management

Integrated hardware monitoring of fans, temperature/thermal, voltage and chassis intrusion, Rioworks™ SmartWatch™ will notify the critical status of system events to prevent from the system data loss.

Specification

Processor

Dual FC-PGA: Coppermine 533MHz-1GB+
Integrated VRM complies to spec 8.4

Chipset

RCC Champion 3.0LE Dual Processor capability for 133 Front Side Bus, PC133 Memory, and 64bit/66MHz PCI slots supporting.

System BIOS

AMI BIOS
I2O support
Legacy USB support
MP 1.1 & 1.4 compliant
SMBIOS 2.3 compliant
DMI 2.0 compliant
Advanced IDE(supports bigger than 8GB HDD with S.M.A.R.T.) features
Soft Power-down
Secure Boot
Multiple boot support
Y2K compliant/PC99 compliant

System/I/O-bus

133/100 Front Side Bus
PC133 Memory

Main Memory

Four 25° DIMM slots supports up to 4GB SDRAM memory capability
ECC memory

Onboard Dual SCSI

Dual ultra3 SCSI channels for bandwidth up to 320MB/s
Affordable RAID solution (MegaRAID) using SCSI Interrupt steering Logic (SISL)

Onboard Multi I/O

Winbond super I/O with hardware monitor
Two serial ports with UART 16550
One parallel port with ECP/EPP support
Dual onboard USB connectors
PS/2 mouse and keyboard connectors with Wake-up function

Performance PCI Bus

Three 64bit/66MHz PCI slots and three 32bit/33MHz PCI slots are PCI 2.2 compliant
64bit/66MHz provides PCI bandwidth 533MB/s vs 133MB/s(32bit/33MHz)

ATX Power Connector

3V, 5V, 5Vstandby and 12V 20-pin
Support Wake on LAN

Hardware monitor and System management

Hardware monitor of CPU Thermal Protect, CPU/System Fan monitor, Voltage Report, Chassis Intrusion
Rioworks™ SmartWatch™ to alert the event of hardware problem
Prevent from abnormal system down/dataloss
Header of Wake On LAN to support the power on features via LAN
IPMI compliance feature connector for MegaRAC

Expansion Slots

6 PCI (3*64bit/66MHz)

Board Size

ATX form factor with size: 12" * 13"

The specification is subject to change without notice.

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