

# RIOWORKS™

The Reliable Building Block

## R5212



*Rioworks R5212* is the density-optimized server for space conscious front-end networking sites requiring high levels of reliability and performance in a rack-mount environment. R5212 supports dual Xeon processor at 400MHz FSB as well as DDR-200 SDRAM for up to 12GB system memory. This truly state-of-art barebone solution combines the server solution and our powerful PDPLA motherboard with the innovative density-optimized 2U server chassis bundling 6 SCSI hot-swap HDD bays.

Space saving 2U rack optimized server

Full function LED set for system fan, temperature, and HDD status

6 SCSI hot swap HDD bays

Slim FDD and standard CD-ROM

Intel E7500 (PLUMAS) chipset with 400MHz FSB

DDR-200 registered SDRAM memory, expandable up to 12GB

3 full size PCI-X expansion

Dual Intel Ethernet LAN controllers (Gigabit & 10/100) support automatic fault tolerance and load balancing

**ADAPTEC RAID READY**

Onboard 8MB embedded ATI VGA

BMC (Base-board Management Controller) supports efficient system management

## Specification

- *Processor*  
Dual Intel Xeon CPUs (Prestonia) 2.2GHz+  
Compliant VRM 9.1
- *Chipset*  
Intel Plumas (E7500) chipset featuring with ICH3 and P64H2
- *System BIOS*  
4MB Flash EEPROM with Phoenix 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
- *System Memory*  
SIX DIMM slots support up to 12GB DDR-200 memory capacity  
Support ECC function
- *Onboard SCSI and LANs*  
Dual Adaptec (AIC-7899W) SCSI channels for bandwidth up to 320MB/s  
Intel (82544GC) Gigabit and 10/100 (82550EY) Ethernet LAN controllers  
ATI RageXL video controller with 8MB memory
- *Onboard Multi I/O*  
NS super I/O  
1 + 1 serial ports with UART 16550  
One parallel port with ECP/EPP support  
Dual ICMB connectors  
Dual onboard USB connectors and extendable 4 USB headers  
PS/2 mouse and keyboard connectors with Wake-up function
- *Device Bays*  
Six hot-swap bays for Ultra160 SCSI HDDs  
Slim FDD & standard CD-ROM
- *PFC Switching Power Supply*  
450W PFC single power supply
- *Hardware Monitor and System Management*  
Winbond 83910F BMC (Base-board Management Controller) chipset  
IPMI compliance feature connector  
Rioworks SmartWatch™
- *Expansion Slot*  
One 64bit riser card with three PCI-X expansion
- *Dimension*  
Space saving 2U with dimension: 592mm (D) x 428mm (W) x 86mm (H)



For more information, please visit us at  
[www.rioworks.com](http://www.rioworks.com)

The specification is subject to change without notice.

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# PDPLA

## Performance Density Rack-Mount /Pedestal Server



*Built-in the latest Intel Plumas (E7500) chipset, PDPLA scales up the whole server performance by supporting dual Xeon (Prestonia) CPU, DDR memory, PCI-X bus and dual Ultra 160 SCSI. Furthermore, PDPLA also integrates dual NIC, BMC and VGA solution and provides an optimal platform for rack-mount server environments.*

*A symmetric dual Xeon processor system*

*Intel E7500 (Plumas) Chipset*

*400MHz FSB support*

*DDR-200 memory supports up to 12 GB*

*Supports Adaptec ZCR (Zero channel RAID) card*

*3 PCI-X slots provide high-performance I/O capacity*

*High performance Ultra160 SCSI channel plus onboard ATI VGA*

**ADAPTEC RAID READY**

*BMC (Base-board Management Controller) supports efficient system management*

*Dual Intel Ethernet LAN controllers (Gigabit & 10/100) support automatic fault tolerance and load balancing*

## Specification

- **Processor**  
Dual Intel Xeon CPUs (Prestonia) 2.2 GHz+  
Compliant VRM 9.1
- **Chipset**  
Intel Plumas (E7500) chipset featuring with ICH3 and P64H2
- **System BIOS**  
4Mb Flash EEPROM with Phoenix 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
- **System/I/O-Bus**  
400MHz data bus frequency  
Two-way interleaved PC200 memory
- **Main Memory**  
Six DIMM slots support up to 12GB DDR-200 memory capacity  
Support ECC function
- **Onboard SCSI and LANs**  
Dual Adaptec (AIC-7899W) SCSI channels for bandwidth up to 320MB/s  
Intel (82544GC) Gigabit and 10/100 (82550EY) Ethernet LAN controllers  
ATI RageXL video controller with 8MB memory
- **Onboard Multi I/O**  
NS super I/O  
1 + 1 serial ports with UART 16550  
One parallel port with ECP/EPP support  
Dual ICMB connectors  
Dual onboard USB connectors and extendable 4 USB headers  
PS/2 mouse and keyboard connectors with Wake-up function
- **Hardware Monitor and System Management**  
Winbond 83910F BMC (Base-board Management Controller) onboard  
IPMI compliance feature connector  
Rioworks SmartWatch™
- **Expansion Slots**  
Three PCI-X, and three 32bit/33MHz PCI slots
- **Board Size**  
SSI form factor with size: 12" x 13"

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