

P3124 Power Storage Server

Powerful Storage Server
High Performance P4 Main Board
Integrated SATA RAID Storage
Dual Hot Swap Power Supplies
Dual Gbit Ethernet



Server System

- ▶ Compact 3U Enclosure
- ▶ Hi-flow Cooling Fans for Reliable Operation
- ▶ 12 Hot Swap SATA Disk Drive Bays
- ▶ Integrated 12 Channel SATA RAID Controller
- ▶ Enclosure Health Monitoring System
- ▶ Dual Redundant Hot Swap Power Supplies
- ▶ Options for CD and FDD Drives
- ▶ Designed for Professional 800 mm Cabinets

Processing Engine

- ▶ Fast ServerWorks Chipset Mainboard
- ▶ Intel P4 Processor with a Choice of CPU Speeds
- ▶ 4 x DIMM Sockets
- ▶ Up to 4GB Registered ECC
- ▶ ATI Rage XL 8MB Video on board
- ▶ Dual on board GB LAN Ports

Integrated Storage

- ▶ 12 Hot Swap SATA Drive Bays
- ▶ Provides ~2.5TBytes useable in RAID 5 (12x250GB HDD)
- ▶ 1.44MB Floppy Disk Drive Option
- ▶ 1 x Parallel Port, 2 x Serial Ports, 2 x USB
- ▶ Integrated 12 Channel Hardware RAID Controller
- ▶ H/W Monitor for CPU Temp, Voltage and Cooling Fan

Expansion Slots

- ▶ 1 x 133/100/66MHz 64 Bit PCI-X
- ▶ 1 x 100/66MHz 64 Bit PCI-X
- ▶ 3 x 33MHz 32 Bit PCI

Overview

The P3124 is a high performance server system using fast ServerWorks chipset server board.

The P4 processor mainboard accepts up to 4GB of RAM, and provides two Gigabit Ethernet Interfaces as standard.

The high performance integrated hardware RAID controller provides storage data rates of around 180MBytes per second using the latest fast Serial ATA disk drives.



Fitted with 12 x 250GB S-ATA hard drives, the P3124 provides ~2.5TBytes of useable storage in raid 5, or approximately 2.25TB of useable storage with a global hot spare drive configured. S-ATA Hard Disk Drives up to 400GB are supported

For storage server applications the unit is configured with Windows Server 2003, set-up on the server, complete with RAID storage built and tested, ready to use. Linux operating systems are also supported.

Specification

Main Board

- Pentium 4 Processor Mainboard (Other options available)
- Up to 4GB of Registered ECC DDR Memory
- 2 x 64 Bit PCI Slots Expansion (one used by RAID Controller)
- Dual GBit Network Ports (IntelPRO)
- On board ATI Rage XL Video
- ServerWorks Grand Champion SL533 Chipset

Disk Storage System

- 12 x 150MB/S S-ATA Channels, Hot Swap Carriers
- Provides ~2.5TB useable in RAID 5
- Capacity quoted with 12 x 250GB S-ATA HDD Fitted
- Disk Size up to 12 x 400GB are supported

RAID Controller

- 12 Channel S-ATA Hardware RAID Controller
- Supports RAID 0, 1, 5, 10 and Hot Spare Drive

Environmental

- Operating temperature range: +10 to +40 deg C
- Storage temperature range: 0 to +55 deg C
- Humidity: 10 to 85% non-condensing

Cooling

- Four Integrated Swappable Redundant Fan Modules

System Monitor

- Alarming on Fan Speeds and Temperature
- Disk and RAID Fault Monitoring and Remote Alarming Options
- Alarm Card Option for Alerting over Ethernet / SNMP

AC Power Supply

- Dual Hot Swap 460+460W Modules
- Dual Power Cords
- Auto-ranging 105 to 264 Volts AC, 47 to 63Hz

Physical

- Power Consumption: ~300W typical
- Weight: 27Kg approx with drives fitted
- Dimensions: 3U 19" rack, 483mm wide x 133mm high x 650mm deep

CE Compliance

- Conforms with EEC Directives on EMC Emissions and Safety



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