

RELIANCE



Key Features

- Pedestal Tower Chassis w/ Single 460 Watt or Dual 500 Watt PFC 1 +1 Redundant Power Supply
- Intel® 5000P Chipset
- One or Two Processors Ready
- Dual-Core Intel® Xeon® Processor 5000 Sequence
- Dual-Core Intel® Xeon® Processor 5100 Sequence
- Quad-Core Intel® Xeon® Processor 5300 Sequence
- 1.6 GHz to 3.73 GHz CPUs
- 32 GB ECC DDR2 Fully Buffered SDRAM
- Six Channel Serial ATA 3 GB/s and Integrated RAID
- Two Intel® PRO 1000 Gigabit Server Controllers
- Adaptec® Dual Channel Serial-Attached SCSI (SAS)
- ATI® ES1000 16 MB Video Controller
- Four Independent PCI Bus Segments
- Intelligent Platform Management Interface 2.0
- FCC DoC, UL Listed, EPA Energy Star Compliant

Reliance IV Workstation

The Reliance IV Series server or high-end workstation in a pedestal chassis, delivers unsurpassed headroom, reliability, and scalability. Specifically built to function in any departmental or SMB server setting, or even in multithreading workstation environments, the Reliance IV Series will effortlessly facilitate high productivity no matter what the demand load may be. Whether hosting specific purpose mission-critical applications or deploying Internet infrastructure programs, the quad processing power of the Reliance IV Series, utilizing the latest Intel® Xeon® 5300 series processors, coupled with a 1333 MHz system bus and 8 MB of L2 Cache, will instill an immeasurable level of confidence for operational performance. The versatility of the Reliance Series is further attested to by its storage flexibility, supporting up to six serial ATA 3GB/s devices, eight serial-attached SCSI devices, and two ATA devices internally and with an optional hot-swap drive kit. Other features of the Reliance include: two Gigabit LAN, fully buffered ECC DDR2 SDRAM memory usage, and four independent PCI bus segments. For front-end infrastructure mission-sensitive tasking, or back-end productivity workloads, the Reliance IV Series is the ideal hardware solution to suit every need.



Model CW1-S307

Reliance IV Workstation

Chipset

Intel® 5000 Chipset
Intel® 5000P Memory Controller Hub (MCH)
Intel® 80332 I/O Processor with Intel® XScale Technology (IOP332)
Intel® 6321 ESB I/O Controller Hub (ESB2-E)
Intel® 6700 PXH PCI-X 64-bit Controller Hub (PXH)
Intel® 82802AB Firmware Hub (FWH)
PCI Local Bus Specification Revision 2.3 and PCI-X 2.2 Compliant

Processor

LGA771-Land Socket for FC-LGA6 (Flip Chip Land Grid Array) Package CPUs
667 MHz, 1066 MHz, or 1333 MHz Front Side Bus (FSB)
1.6 GHz to 3.73 GHz CPUs
Intel® Netburst® Micro-architecture
Dual-Core Intel® Xeon® Processor 5000 Series, One or Two Processor Ready
Intel® Core™ Micro-architecture
Dual-Core Intel® Xeon® Processor 5100 Series, One or Two Processor Ready
Quad-Core Intel® Xeon® Processor 5300 Series, One or Two Processor Ready

BIOS

8 Mbit Flash EEPROM w/ Phoenix® BIOS
Multi Boot BBS (BIOS Boot Specification) 1.4 Compliant
IDE Drive Autoconfigure, SIMBIOS 2.3, PnP
Built-in Password and Hardware BIOS Virus Protection
Supports IDE CD-ROM or SCSI Bootup
Enhanced Advanced Configuration and Power Interface (ACPI)

Cache

Dual-Core Intel® Xeon® Processor 5000 Series
2 x 12k µop Trace Execution & 2 x 16 KB Data, Level 1 Cache
2 x 2 MB Advanced Transfer Cache (On-die, Full Speed Level 2 Cache) w/ 8-way
Associativity & Error Correcting Code (ECC)
Dual-Core Intel® Xeon® Processor 5100 Series
32 KB Instruction & 32 KB Data, Level 1 Cache (Shared)
4 MB Advanced Smart Cache (On-die, Full Speed Level 2 Cache) w/ 8-way
Associativity & Error Correcting Code (ECC) (Shared)
Quad-Core Intel® Xeon® Processor 5300 Series
4 x (32 KB Instruction & 32 KB Data, Level 1 Cache)
2 x 4 MB Advanced Smart Cache (On-die, Full Speed Level 2 Cache) w/ 8-way
Associativity & Error Correcting Code (ECC) (Shared)

System Memory

Intel® x4 Single Device Data Correction (x4 SDDC) for Memory Fault Tolerance
Four Fully Buffered (FBD) Channels
Eight 240-pin (Two-way Interleaved) DIMM Sockets Supporting
Fully Buffered ECC DDR2 533 MHz (Stacked or Unstacked) SDRAM FBDIMMs
Fully Buffered ECC DDR2 667 MHz (Stacked or Unstacked) SDRAM FBDIMMs
256 MB, 512 MB, 1 GB, 2 GB, and 4 GB FBDIMMs
Maximum Memory Capacity of 32 GB

Server Management

IPMI 2.0 (Intelligent Platform Management Interface) (Optional via AOC-SIMLP Card)
Remote Hardware Health Monitoring Features
Event Log and OS Independency
Remote Network Management Security Features
Supports KVM-over-LAN
Supports IPMI-over-LAN

Integrated PCI IDE/SATA/RAID

One Enhanced IDE Channel Supporting Two IDE/EIDE Devices
Supports Bus Master UDMA Mode 5, PIO Mode 4 & ATA/100 (100 MB/sec maximum)
Intel® 6321ESB I/O Controller Hub (ESB2-E) SATA Controller w/ Integrated RAID
Six Independent Channels Supporting Six Serial ATA 3 GB/s Devices
Intel® Embedded Server RAID Technology II
Supporting SW RAID 0, 1, 10, and 5 w/ Activation Key (Optional)
Zero-Channel RAID (Optional via AOC-LPZCR2 Card)
RAID 0, 1, 10, 5, 50, JBOD

Integrated Graphics Adapter

ATI® Rage® ES1000 SVGA PCI Video Controller with 16 MB DDR SDRAM Video Memory
Supporting up to 1600 x 1200 in 8/16/32 bpp Mode under 2D

Integrated Gigabit LAN Interface

Dual Port Intel® Gigabit Server Connection
Two Intel® 82563EB PHY Controllers Supporting Intel® I/O Acceleration Technology for
10/100/1000 Ethernet LAN Supporting Full and Half Duplex Operation

Integrated SAS

Adaptec® AIC-9410 Dual Channel Serial-Attached SCSI Host Controller
Supporting up to Eight Drives
Channel 1 Supports up to Four Serial Attached SCSI or Serial ATA Drives
Channel 2 Supports up to Four Serial Attached SCSI or Serial ATA Drives
Supporting RAID 0, 1, and 10

Integrated Super I/O

Two PS/2 Ports Keyboard and Mouse
Five USB 2.0 Ports: One Dual Stacked and Three via Internal Header
Two Serial Ports: One Serial Port and One DH10 Serial A Header
One Parallel Port

Expansion Slots

PCI Sub-system Supporting Four Independent PCI Bus Segments
Segment One: 32-bit, 33 MHz PCI Bus
Supporting Embedded Device
Segment Two: 64-bit, 133 MHz PCI-X
Supporting Up to Two Add-in Cards
Segment Three: Two x8 PCI Express
Supporting Two x8 PCI Express Add-in Cards (x8 Electrical)
Segment Four: One x8 PCI Express
Supporting One x8 PCI Express Add-in Card (x4 Electrical)
One SEPC Slot

Bus Architecture

32-bit PCI, 64-bit PCI-X, PCI Express x4, & PCI Express x8

Housing Configuration

Pedestal Server/Workstation Chassis

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

651 x 222 x 425 / 25.63" X 8.75" X 16.73"

Drive Bays

5.25" External Bay:	3
3.5" External Bay:	1
3.5" Internal:	8
3.5" Hot-swap Kit (Optional):	4 Hot-swap Serial ATA Drives 4 Hot-swap Serial Attached SCSI Drives

Power Supply Features

Input Frequency:	47 ~ 63 Hz
Input Voltage:	90 ~ 264 VAC Full Range
-12V Output	1 A Maximum
Single 460 Watts Power Supply:	
Input Current	8 Amp @ 115 VAC
+5V	40 A Maximum
+5V Standby	2 A Maximum
+12V	27 ~ 32 A
+3.3V	30 A Maximum
Dual Redundant 500W + 500W Power Supply:	
Input Current	9 / 4.5 Amp @ 115 VAC
+5V	35 A Maximum
+5V Standby	2.5 A Maximum
+12V	32 A
+3.3V	25 A Maximum

Environmental

Operating Temperature:	0° to +50° C / 32° to 122° F
Storage Temperature:	-40° to +70° C / -42° to +158° F
Relative Humidity:	90% RH @ +35° C / +95° F

Regulatory & Product Certifications

EMI/RFI:	FCC Declaration of Conformity (DoC)
Safety:	Underwriter Laboratories 60950, 3rd Edition

Options

4 Bay Hot Swap Drive Enclosure	AOC-LPZCR Card
Hot Swap 120mm Cooling Fan	AOC-SIMLP-3(+) or AOC-SIMLP-B(+)

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