

# RELIANCE



## Key Features

- Pedestal Tower Chassis w/ Single 460 Watt or Dual 500 Watt PFC 1 +1 Redundant Power Supply
- Intel® 955X Express Chipset
- Intel® Pentium® 4 Processor 5xx & 6xx
- Intel® Pentium® D Processor 8xx (Dual-Core)
- Intel® Pentium® Processor 8xx Extreme Edition
- 533 MHz, 800 MHz, or 1066MHz Front Side Bus
- Maximum 8GB DDR2 667 MHz SDRAM Memory
- PCI Express x16
- Integrated 8-Channel (7.1) High Definition Audio
- Integrated Dual Gigabit LAN Connectivity
- Intel® Matrix Storage Technology & Integrated RAID
- Parallel ATA, Serial ATA 3 GB/s, External Serial ATA, & Serial ATA II
- USB 2.0 and 1394 Ports
- FCC DoC, UL Listed, EPA Energy Star Compliant
- DMI, ACPI, PC '01 Compliant

## Reliance IV Series Workstation

Taking the next revolutionary step in hardcore gaming and office productivity, the Reliance Series A272 permeates with extreme performance and multimedia essentials. Harnessing two physical processors on a single silicon, the Intel® Pentium® Processor 8xx Extreme Edition, the Reliance nearly doubles throughput while providing the essential processing power for complex gaming and multimedia computations. Its dual channel DDR2 SDRAM memory utilization up to 8GB provides stellar memory capacity, lower power consumption, and enhanced thermal performance. The Reliance boasts dual integrated Gigabit controllers, and through OS or hardware assisted virtualization, can enable concurrent game play or content creation across two separate networks. Leading-edge storage technologies such as Serial ATA 3GB/s, Serial ATA II, and RAID not only give the Reliance the highest data traffic throughput and retrieval but also virtually guarantee information integrity. 8-channel surround sound, PCI Express x16, and Firewire® round out the Reliance's rich arsenal of productivity-optimized and extreme performance features.



# Model CW1-272

# Reliance IV Series Workstation

## Chipset

Intel® 955X Chipset  
Intel® 82955X Memory Controller Hub (MCH) with Direct Media Interface (DMI) Interconnect  
Intel® 82801GR I/O Controller Hub (ICH7-R) with DMI Interconnect  
Intel® 82802AC Firmware Hub (FWH) or Intel® Serial Peripheral Interface (SPI) Flash Device  
PCI 2.2 Compliant & Concurrent PCI for Real-Time I/O

## Processor

FC-LGA4 Package (775-land Package) & Intel® NetBurst™ Microarchitecture  
533 MHz, 800 MHz or 1066 MHz Front Side Bus (FSB)  
Intel® Pentium® 4 Processors 5xx & 6xx 3.0 GHz to 3.8 GHz (800 MHz FSB)  
Intel® Pentium® 4 Processor Extreme Edition 3.73 GHz (1066 MHz FSB)  
Intel® Pentium® D Processors 8xx (Dual-Core) 2.8 GHz to 3.2 GHz (800 MHz FSB)  
Intel® Pentium® Processor Extreme Edition 8xx (Dual-Core) 3.2 GHz (800 MHz FSB)

## BIOS

8 Mbit Flash EEPROM  
Award® PCI BIOS - DMI 2.0, WfM 2.0, Plug & Play,  
Automatic Hard Disk Detection & Build-in Password Protection  
Enhanced Advanced Configuration and Power Interface (ACPI) v1.0b  
PC '01 Compliant

## Cache

Intel® Pentium® 4 Processor, 5xx & 6xx  
12k µop Level 1 Execution Trace Cache and 16 KB Level 1 Data Cache  
1 MB or 2 MB On-die, Full Speed Level 2 Cache (Advanced Transfer Cache)  
Intel® Pentium® 4 Extreme Edition  
12k µop Level 1 Execution Trace Cache and 16 KB Level 1 Data Cache  
2 MB On-die, Full Speed Level 2 Cache (Advanced Transfer Cache)  
Intel® Pentium® D Processor 8xx (Dual-Core) & Intel® Pentium® Extreme Edition 8xx (Dual-Core)  
2 x (12k µop Level 1 Execution Trace Cache and 16 KB Level 1 Data Cache)  
2 x (1 MB On-die, Full Speed Level 2 Cache)

## System Memory

Four 240-pin Dual Channel DIMM Sockets supporting ECC or Non-ECC 667 MHz or  
533 MHz DDR2 SDRAM Memory  
256 MB, 512 MB, 1 GB, and 2 GB DIMMs  
Maximum Memory Capacity of 8 GB

## System Management

AI NOS™ (Non-delay Overclocking System)  
Asus C.P.U. (CPU Parameter Recall) and CPU Lock Free & Asus Q-Fan2 Technology  
Fan Status/Temperature & Power Supply Voltage Monitoring and Alert  
Auto CPU Fan Stop in Suspend Mode & Auto CPU Slow-Down When Overheating Detected  
System Resources: Memory & Hard Disk Drive Utilization Monitoring & Alert,  
Wake-on-LAN, Wake-on-Ring, Wake-from-USB, and Wake-from-PS/2 Devices Support  
Suspend-to-RAM

## Integrated Super I/O

Floppy Controller for Mode 3 Support (up to 2.88 MB drive type)  
One PS/2 Keyboard Port and One PS/2 Mouse Port  
One ECP/EPP Parallel Port  
Four USB 2.0 Ports & One IEEE 1394 Port

## Integrated PCI IDE/Serial ATA

Silicon Image 3132 SATALink™ PCI Express to 2-Port Serial ATA II Host Controller  
Supports Serial ATA II: 3Gb/s, Native Command Queuing, First Party DMA, Port Multipliers  
w/ FIS-based Switching, Hot Plug, &c.  
Supports 2 Serial ATA II Drives  
Supports External Serial ATA Connectivity w/ One External SATA Port  
Intel® 82801GR I/O Controller Hub (ICH7-R) Parallel ATA IDE Host Controller  
Supports 2 IDE and EIDE Drives  
Supports Bus Master Ultra DMA/33/66/100 (100 MB/s Maximum)  
Intel® 82801GR I/O Controller Hub (ICH7-R) Serial ATA Host Controller  
Supports First Party DMA  
Supports 4 Serial ATA 3 GB/s Drives (SATA-IO Specification)  
ITE 8211F IDE Controller  
Supports 4 IDE and EIDE Drives  
Supports Bus Master Ultra DMA/66/100/133 (133 MB/s Maximum)

## Integrated Gigabit LAN Interface

Dual Integrated Gigabit Ethernet Subsystem  
Intel® 82573E/82573V/82574V Gigabit Ethernet Controller  
Marvell Yukon 88E8001 Gigabit Ethernet Controller  
Two RJ-45 Ports

## Integrated RAID

Intel® Matrix Storage Technology via Intel® 82801GR I/O Controller Hub (ICH7-R)  
Supports RAID 0, RAID 1, RAID 5, RAID 0+1 or RAID 10  
Sii 3132 Controller  
Supports Sii SATAraid™ RAID Management w/ Software RAID 0 & RAID 1  
Supports SATA Port Multiplier w/ Software RAID 0, RAID 1, RAID 10, & RAID 5

## Integrated Audio

Integrated 8-Channel (7.1) High Definition Audio  
RealTEK ALC882D Audio CODEC w/ Universal Audio Architecture (UAA)  
Front Panel Connectors: Line Out/Retasking Jack, and Microphone In/Retasking Jack  
Back Panel Connectors: Line In/Side Surround Left and Right/Retasking Jack, Surround  
Left and Right/Retasking, Center Channel and LFE (Subwoofer)/Retasking Jack, Line Out/  
Retasking Jack, Microphone In/Retasking Jack, and S/PDIF Digital & Coaxial Audio Out

## Expansion Slots

Three 32-bit PCI  
One PCI Express x1  
One PCI Express Universal (x4 mode)  
One PCI Express x16

## Bus Architecture

PCI, PCI Express x16, and PCI Express x1

## 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 ATA 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:	+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

## Regulatory & Product Certifications

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

## Options

4 Bay Hot Swap Drive Enclosure  
Hot Swap 120mm Cooling Fan

**NCS Technologies, Inc.**

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