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THE SUPERCOMPUTER COMPANY

CRAY CX1

Compute Blade CN5500-XD
Compute Blade CN5500-DD
Compute Blade CN5500-GE

- Quad-Core Intel® Xeon® Processors
- Up to 96GB of DDR3 memory
- Red Hat® Linux® Enterprise v5 or Microsoft® Windows® HPC Server 2008

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intel Xeon inside™
Powerful. Intelligent.

Compute Blade CN5500-XD/CN5500-DD/CN5500-GE

Processors	Up to 2 Quad-Core Intel Xeon 5500 Sequence processors
Chipset	Intel 5520 - QPI, Tylersburg IOH-36D
Memory	• Supports up to 12 x DDR3 ECC DIMMs 1333MHz • Support for up to 48GB (w/ 12 x 4GB DIMMs) ◦ 1GB/2GB/4GB DDR3 DIMMs 1066/1333MHZ ◦ 96GB support will be offered with 8GB DIMMs availability
Operating Systems	Validated & Supported O/S: • Microsoft Windows HPC Server 2008 • Red Hat Linux Enterprise v5
Storage	One internal fixed SATA hard drive ◦ 2.5" SATA (7.2k rpm): 80GB, 160GB, 250GB, 320GB or 500GB ◦ 2.5" SATA (10K rpm): 150GB, 300GB ◦ 2.5" SATA SSD: 32GB, 64GB
Communications	• Dual embedded Gigabit Ethernet NIC (Intel 82576) ◦ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output ◦ Intel I/OAT support for fast, scaleable, and reliable networking • CN5500-XD single port QSFP Embedded InfiniBand (DDR ConnectX) • CN5500-DD blade has DDR InfiniBand, but not ConnectX and the CN5500-GE only has Gigabit Ethernet (i.e., no InfiniBand)
I/O PCIe Optional Cards	• 1 (x16) PCIe Generation 2.0 slot • InfiniBand ◦ Dual-Port 20Gb/s InfiniBand Card - PCIe x8 2.0 5GT/s (Mellanox ConnectX) ◦ Dual-Port 40Gb/s InfiniBand Card - PCIe x8 2.0 5GT/s (Mellanox ConnectX) • Fibre-Channel and other adapters
Management	• Graphical Mode Console Redirection • Performance Monitoring • System Management: Local System Management Application, Windows Management Instrumentation (WMI) • Reports: System Information, Health Log, Administration • Pager Alert and E-mail Alerts • SNMP support • Health Monitoring: CPU and System temperatures, System voltages, CPU and Chassis Fans, Chassis Intrusion, Redundant Power Failure (hardware dependent)
Power Configuration	ACPI Power Management / Wake-On-Ring (WOR) header / Power-on mode for AC power recovery Main Switch Override Mechanism / Wake-On-LAN (WOL) header / Internal/External modem remote ring-on
Buttons	Power On/Off button / System Reset button
LEDs	Power LED / Hard drive activity LED / 2x Network activity LEDs
Standard Interfaces	• Two USB 2.0 bootable ports on front panel for floppy, CD/DVD, memory key, keyboard/mouse • One serial port (RS232) • Two RJ45 LAN ports • One VGA
Video	• Embedded Matrox G200eW controller
Environmental	• **Operating Temperature** 10°C to 30°C (50° F to 86° F) • **Non-operating Temperature** -40°C to 70°C (-40°F to 158°F) • **Operating Relative Humidity** 8% to 90% (non-condensing) • **Non-operating Relative Humidity** 5% to 95% (non-condensing)
Regulatory	FCC (U.S. only) Class A / CE Mark (EN 55022 Class A, EN55024, EN61000-3-2, EN61000-3-3) / UL 60950-1, CAN/CSA C22.2 No. 60950-1 ICES (Canada) Class A / VCCI (Japan) Class A / VEN 60950-1

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