

Processor/Cache (Per Blade)

CPU

- * Dual 1366-pin LGA Sockets
- * Supports up to two Intel® 64-bit Xeon® processor(s) of the same type below:
 - o Quad-Core Intel® Xeon® Processor 5500 sequence (Nehalem-EP processor)

QPI * up to 6.4 GT/s

System Memory (Per Blade)

Memory Capacity

- * 12x 240-pin DIMM sockets
- * Supports up to 48 GB 1333 / 1066 / 800MHz DDR3 ECC Registered memory
- * Supports up to 24 GB 1333 / 1066 / 800MHz DDR3 ECC Unbuffered memory
- * Memory Mirroring supported

Memory Type

- * 1333 / 1066 / 800MHz ECC Registered / ECC Unbuffered DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs

DIMM Sizes

- * 1GB, 2GB, 4GB

Memory Voltage

- * 1.5 V

Error Detection

- * Corrects single-bit errors
- * Detects double-bit errors (using ECC memory)
- * Supports Intel® x4 and x8 Single Device Data Correction (SDDC)

On-Board Devices (Per Blade)

Infiniband

- * Mellanox Dual-port ConnectX DDR InfiniBand 20Gbps Mezzanine HCA

SAS / SATA

- * LSI 1068E SAS controller with RAID 0, 1, and RAID 5

Chipset

- * Intel® 5520 (Tylersburg) chipset
- * ICH10R + IOH-36D

IPMI

- * Support for Intelligent Platform Management Interface v.2.0
- * IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
- * Winbond® WPCM450 BMC

Network Controllers

- * Intel® 82576 Dual-Port Gigabit Ethernet Controller
- * Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
- * Intel® I/OAT 3 support for fast, scaleable, and reliable networking
- * VMDq support for better performance of virtualization
- * 1x Realtek RTL8201N PHY (dedicated IPMI)

Graphics

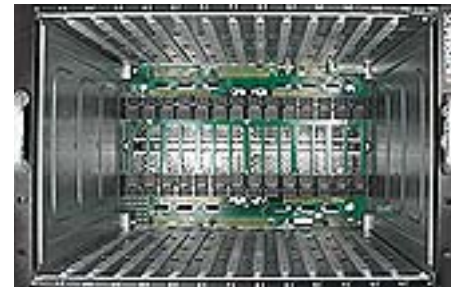
- * Matrox G200eW 8 MB DDR2

Super I/O

- * Winbond W83527HG chip

Clock Generator

- * 932S421 chip



Dimensions

| | |
|-------------|--------------|
| Height | 12.1" |
| Width | 18.5" |
| Depth | 29" |
| Form Factor | 7U Rackmount |

Front Panel (Per Blade)

Buttons

- * Power On/Off button
- * UID button

LEDs

- * Power LED, Fault LED

Power Supply

(4) Hot-swap 1400W power supplies, N+1 redundant

AC Input

- * 100 - 140V, 50 - 60Hz, 7.5 - 11Amp
- * 180 - 240V, 50 - 60Hz, 5 - 8Amp

DC Output

+5V standby

- * 4 Amp

DC Output

+12V

- * 74 Amp @ 100-140V
- * 100 Amp @ 180-240V

Switch Modules

InfiniBand

- * One hot-plug 4x DDR (20-Gbps) switch, Fourteen Internal 4X DDR Ports, Ten 4X DDR external copper ports (CX4), 34W

Gigabit Ethernet

- * Supports up to two hot-plug Gigabit Ethernet switches / Pass-Through Modules

Miscellaneous

Drive Bays: 3x 2.5" SAS / SATA Hot-swap (Per Blade)

Hard Drive Backplane: 1U (Per Blade)

System Cooling: 8x cooling fans