

**Processor/Cache**

**CPU**

- \* Dual 1366-pin LGA Sockets
- \* Supports up to two Intel® 64-bit Xeon® processor(s) of the same type below:
  - o Six-Core Intel® Xeon® Processor 5600 sequence (Westmere processor)

**QPI** \* up to 6.4 GT/s

**System Memory**

**Memory Capacity**

- \* 12x 240-pin DIMM sockets
- \* Supports up to 192 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, 8GB, 16GB

**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 Node)**

**Infiniband**

- \* Optional Mellanox ConnectX QDR Infiniband 40Gbps Controller

**Chipset**

- \* Intel® 5520 (Tylersburg) chipset
- \* Intel ICH10R SATA 3.0Gbps Controller, RAID 0, 1, 5, 10 Support + 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, scalable, 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	11.22" (285mm)
Width	26.38" (670mm)
Depth	39.76" (1010mm)
Gross Weight	68 lbs.
Form Factor	2U Rackmount

**Front Panel (Per Node)**

**Buttons**

- \* Power On/Off button
- \* UID button

**LEDs**

- \* Power LED (on power button)
- \* UID LED (on UID button)
- \* Network activity LED
- \* System Overheat/fan fail/power fail/ LED

**Power Supply**

1200W high-efficiency power supply with PMBus

**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

**Operating Environment / Compliance**

\*RoHS Compliant

**Environmental Spec.**

- \* Operating Temperature: 10° to 35°C (50° to 95°F)
- \* Non-operating Temperature: -40° to 70°C (-40° to 158°F)
- \* Operating Relative Humidity: 8% to 90% (non-condensing)
- \* Non-operating Relative Humidity: 5 to 95% (non-condensing)

**Miscellaneous**

Expansion Slots: 1 (x16) PCI-E (Per Node, Low Profile)

Drive Bays: 3x 3.5" SATA Hot-swap (Per Node)

Hard Drive Backplane: 2U

System Cooling: 4x Cooling Fans