

FOREST MDC Blades

POWERED BY INTEL® XEON® PROCESSORS



COMPUTE BLADES



Powerful.
Intelligent.

The Cirrascale FOREST Modular Data Center epitomizes the evolution of data center modularity and all of the benefits. It is a portable data center that is deployable virtually anywhere.

Populating a FOREST MDC with our built-to-order blades ensures the industry's most flexible compute solution available with support for over 2,800 servers. With its ability to employ over 34,000 processing cores, the versatility and potential of FOREST blades are truly without boundaries.

FOREST blades have support for the latest six-core Intel® Xeon® processors. With faster processors, Intel I/O AT, VT-d Virtualization technology and the industry leading patented Vertical Cooling Technology™, FOREST blades are the ideal solution for a full range of scale out applications.

Advanced power and cooling architectures such as redundant power inputs and fan trays make the FOREST infrastructure perfect for today's Cloud, Internet and Application Service Providers where an increased level of uptime is

required. With server management based on IPMI standards, system administrators will be able to remotely monitor and manage individual blades as well as have full control with optional KVM-IP functionality.

FOREST supports multiple configurations and Cirrascale can tailor any system to your specific needs. If you have questions, please contact us today at (888) 942-3800 and ask to speak with a Cirrascale Account Manager.

Compute Blade

VB1305FE

Internal View



FEATURES AT A GLANCE

- Two Six-Core Intel® Xeon® 5600 Series Processors
- Up to 64GB DDR3 Memory
- Intel QuickPath Interconnect
- Native 12V Power Input
- Two Gigabit Ethernet Ports
- Intel HyperThreading Technology
- Up to 72 Blades per BladeRack® 2 FE Platform

Processor

- Options Include Two of the Following:
- Dual-Core Intel® Xeon® 5500 Series Processors
 - Quad-Core Intel Xeon 5600 Series Processors
 - Six-Core Intel Xeon 5600 Series Processors

Chipset

- Intel 5500 Chipset (Tylersburg-24D)
- Intel Quickpath Interconnect

Memory

- Supports Up to 64GB DDR3-1333 ECC Registered Memory*
- Eight DIMM Sockets

Storage

- Options Include Up to Two SATA Hard Drives:
- Up to 1TB Hot-Swap SATA Storage

Networking

- Two Intel 10/100/1000 Network Connections
- Intel 82576 Network Controller

Expansion Slots

- One x16 PCI Express 2.0 slot (x8 signal)
- One x8 PCI Express 2.0 slot

Expansion Card Options

- Options Include One of the Following PCI-E Cards:
- One PCI-Express SAS HBA (RAID 0, 1)
 - One PCI-Express Infiniband 20GB DDR HBA
 - One PCI-Express 4GB Dual Port Fibre HBA

Regulations

- Safety EN60950
- Regulatory Markings CSA, CD, Nemko (When Installed in FOREST)

Standard Interfaces

- Two USB 2.0 Ports
- One 15-pin VGA Port
- Two RJ-45 Gigabit Ethernet Ports
- One RJ-45 Management / KVM-IP Port (optional)

Integrated Graphics

- ServerEngines LLC Pilot II
- Matrox G200 2D Video Controller with 8MB

Management and Monitoring

- IPMI 2.0
 - Remote power on/off/reset
 - KVM-IP (optional)

Operating Systems

- Windows® Server 2003/2008
- Red Hat® Enterprise Linux 5 x86-64
- SISE Linux Enterprise 10 x86-64
- CentOS 5 x86-64

*Memory speeds vary based on configuration

Compute Blade

VB1307FE

Internal View



FEATURES AT A GLANCE

- Two Six-Core Intel® Xeon® 5600 Series Processors
- Up to 64GB DDR3 Memory
- Intel QuickPath Interconnect
- Integrated KVM-IP
- Up to Six Gigabit Ethernet Ports
- Optional 10Gb Ethernet

Processor

- Options Include Two of the Following:
- Dual-Core Intel® Xeon® 5500 Series Processors
 - Quad-Core Intel Xeon 5600 Series Processors
 - Six-Core Intel Xeon 5600 Series Processors

Chipset

- Intel 5520 Chipset (Tylersburg-36D)
- Intel QuickPath Interconnect

Memory

- Supports Up to 64GB DDR3-1333 ECC Registered Memory*
- Eight DIMM Sockets

Storage

- Options Include Up to Two SAS or SATA Hard Drives:
- Up to 1TB Internal SATA Storage
 - Up to 600GB Internal SAS Storage

Networking

- Four 10/100/1000 Network Connections
- Intel 82576EB and 82574L Network Controller

Expansion Slots

- Two PCI-E x8 PCI Express 2.0 Slots

Expansion Card Options

- Options Include Two of the Following PCI-E Cards:
- One PCI-Express Infiniband 20GB DDR HBA
 - One PCI-Express 4GB Dual Port Fibre HBA
 - One PCI-Express 10GbE Card

Regulations

- Safety EN60950
- Regulatory Markings CSA, CD, Nemko (When Installed in FOREST)

Standard Interfaces

- Two USB 2.0 Ports
- One 15-pin VGA Port
- Two RJ-45 Gigabit Ethernet Ports
- One RJ-45 Management / KVM-IP Port (optional)

Integrated Graphics

- Asped AST2050 Integrated Graphics

Management and Monitoring

- IPMI 2.0
 - Remote power on/off/reset
 - KVM-IP (optional)

Operating Systems

- Windows® Server 2003/2008
- Red Hat® Enterprise Linux 5 x86-64
- SUSE Linux Enterprise 10 x86-64
- CentOS 5 x86-64

*Memory speeds vary based on configuration

Compute Blade

VB1310FE

Internal View



FEATURES AT A GLANCE

- Two Six-Core Intel® Xeon® 5600 Series Processors
- Up to 144GB DDR3 Memory
- Intel QuickPath Interconnect
- Integrated KVM-IP
- Four Gigabit Ethernet Ports
- Intel HyperThreading Technology
- Up to 72 Blades per BladeRack® 2 FE Platform

Processor

- Options Include Two of the Following:
- Dual-Core Intel® Xeon® 5500 Series Processors
 - Quad-Core Intel Xeon 5600 Series Processors
 - Six-Core Intel Xeon 5600 Series Processors

Chipset

- Intel 5520 Chipset (Tylersburg-36D)
- Intel QuickPath Interconnect

Memory

- Supports Up to 144GB DDR3-1333 ECC Registered Memory*
- Eighteen DIMM Sockets

Storage

- Options Include Up to Two SAS or SATA Hard Drives:
- Up to 4TB Internal SATA Storage
 - Up to 900GB Internal SAS Storage

Networking

- Four 10/100/1000 Network Connections
- Intel 82576EB and 82574L Network Controller

Expansion Slots

- Two PCI-E x8 PCI Express 2.0 Slots

Expansion Card Options

- Options Include Two of the Following PCI-E Cards:
- One PCI-Express Infiniband 20GB DDR HBA
 - One PCI-Express 4GB Dual Port Fibre HBA
 - One PCI-Express 10GbE Card

Regulations

- Safety EN60950
- Regulatory Markings CSA, CD, Nemko (When Installed in FOREST)

Standard Interfaces

- Two USB 2.0 Ports
- One 15-pin VGA Port
- Two RJ-45 Gigabit Ethernet Ports
- One RJ-45 Management / KVM-IP Port (optional)

Integrated Graphics

- Asped AST2050 Integrated Graphics

Management and Monitoring

- IPMI 2.0
 - Remote power on/off/reset
 - KVM-IP (optional)

Operating Systems

- Windows® Server 2003/2008
- Red Hat® Enterprise Linux 5 x86-64
- SUSE Linux Enterprise 10 x86-64
- CentOS 5 x86-64

*Memory speeds vary based on configuration

Compute Blade

VB1312FE

Internal View



FEATURES AT A GLANCE

- Two Six-Core Intel® Xeon® 5600 Series Processors
- Up to 144GB DDR3 Memory
- Intel QuickPath Interconnect
- Integrated KVM-IP
- Up to Eight Gigabit Ethernet Ports
- Up to 72 Blades per BladeRack® 2 FE Platform

Processor

- Options Include Two of the Following:
- Dual-Core Intel® Xeon® 5500 Series Processors
 - Quad-Core Intel Xeon 5600 Series Processors
 - Six-Core Intel Xeon 5600 Series Processors

Chipset

- Intel 5520 Chipset (Tylersburg-36D)
- Intel QuickPath Interconnect

Memory

- Supports up to 144GB DDR3-1333 ECC Registered Memory*
- Eighteen DIMM Sockets

Storage

- Options Include Up to Two SAS or SATA Hard Drives:
- Up to 4TB Internal SATA Storage
 - Up to 900GB Internal SAS Storage

Networking

- Four 10/100/1000 Network Connections
- Intel 82576EB and 82574L Network Controller

Expansion Slots

- Two PCI-E x8 PCI Express 2.0 slots

Expansion Card Options

- Options Include Two of the Following PCI-E Cards:
- One PCI-Express 4GB Dual Port Fibre HBA
 - One PCI-Express Dual Port Gigabit NIC
 - One PIC-Express Quad Port Gigabit NIC

Regulations

- Safety EN60950
- Regulatory Markings CSA, CD, Nemko (When Installed in FOREST)

Standard Interfaces

- Two USB 2.0 Ports
- One 15-pin VGA Port
- Two RJ-45 Gigabit Ethernet Ports
- One RJ-45 Management / KVM-IP Port (Optional)

Integrated Graphics

- Aspeed AST2050 Integrated Graphics

Management and Monitoring

- IPMI 2.0
 - Remote power on/off/reset
 - KVM-IP

*Memory speeds vary based on configuration

Compute Blade

VB1315FE

Internal View



FEATURES AT A GLANCE

- Two Six-Core Intel® Xeon® 5600 Series Processors
- Up to 192GB DDR3 Memory
- Intel QuickPath Interconnect
- Native 12V Power Input
- Two Gigabit Ethernet Ports
- Intel HyperThreading Technology
- Up to 72 Blades per BladeRack® 2 FE Platform

Processor

- Options include two of the following:
- Dual-Core Intel® Xeon® 5500 Series Processors
 - Quad-Core Intel Xeon 5600 Series Processors
 - Six-Core Intel Xeon 5600 Series Processors

Chipset

- Intel 5520 Chipset (Tylersburg-36D)
- Intel QuickPath Interconnect

Memory

- Supports up to 192GB DDR3-1333 ECC Registered Memory*
- Twelve DIMM Sockets

Storage

- Options Include Up to Four SAS or SATA Hard Drives:
- Up to 8TB Internal SATA Storage
 - Up to 1.8TB Internal SAS Storage

Networking

- Two Intel 10/100/1000 Network Connections
- Intel 82576 Network Controller

Expansion Slots

- One x16 PCI Express 2.0 slot

Expansion Card Options

- Options Include One of the Following PCI-E Cards:
- One PCI-Express SAS HBA (RAID 0, 1)
 - One PCI-Express Infiniband 20GB DDR HBA
 - One PCI-Express 4GB Dual Port Fibre HBA

Regulations

- Safety EN60950
- Regulatory Markings CSA, CD, Nemko (When Installed in FOREST)

Standard Interfaces

- Two USB 2.0 Ports
- One 15-pin VGA Port
- Two RJ-45 Gigabit Ethernet Ports
- One RJ-45 Management / KVM-IP Port (optional)

Integrated Graphics

- ServerEngines LLC Pilot II
- Matrox G200eW Video Controller with 8MB

Management and Monitoring

- IPMI 2.0
 - Remote power on/off/reset
 - KVM-IP (optional)

Operating Systems

- Windows® Server 2003/2008
- Red Hat® Enterprise Linux 5 x86-64
- SUSE Linux Enterprise 10 x86-64
- CentOS 5 x86-64

*Memory speeds vary based on configuration

Compute Blade

VB1316FE

Internal View



FEATURES AT A GLANCE

- Two Six-Core Intel® Xeon® 5600 Series Processors
- Up to 48GB DDR3 Memory
- Intel QuickPath Interconnect
- Native 12v Power Input
- Two Gigabit Ethernet Ports
- Up to 100k + IOPS with Fusion I/O Card
- Up to Four Hot Swap or Eight Fixed HDD or SSD

Processor

- Options Include Two of the Following:
- Dual-Core Intel® Xeon® 5500 Series Processors
 - Quad-Core Intel Xeon 5600 Series Processors
 - Six-Core Intel Xeon 5600 Series Processors

Chipset

- Intel 5550 Chipset (Tylersburg-36D)
- Intel QuickPath Interconnect

Memory

- Supports up to 48GB DDR3-1333 ECC Registered Memory*
- Twelve DIMM Sockets

Storage

- Options Include Up to Four Hot Swap or Eight Fixed 2.5" Hard Drives or SSDs:
- Up to 4TB Internal SATA Storage
 - Up to 2.4TB Internal SAS Storage

Networking

- Two Intel 10/100/1000 Network Connections
- Intel 82576 Network Controller

Expansion Slots

- One x16 PCI Express 2.0 Slot

Expansion Card Options

- Options Include One of the Following PCI-E Cards:
- One PCI-Express SAS HBA (RAID 0, 1)
 - One PCI-Express SAS RAID Card (RAID 0,1,5,6,10,50)
 - One PCI-Express 4GB Dual Port Fibre HBA
 - One PCI-Express Fusion I/O Card

Regulations

- Safety EN60950
- Regulatory Markings CSA, CD, Nemko (When Installed in FOREST)

Standard Interfaces

- Two USB 2.0 Ports
- One 15-pin VGA Port
- Two RJ-45 Gigabit Ethernet Ports
- One RJ-45 Management / KVM-IP Port (optional)

Integrated Graphics

- ServerEngines LLC Pilot II
- Matrox G200eW Video Controller with 8MB

Management and Monitoring

- IPMI 2.0
 - Remote power on/off/reset
 - KVM-IP (optional)

Operating Systems

- Windows® Server 2003/2008
- Red Hat® Enterprise Linux 5 x86-64
- SUSE Linux Enterprise 11 x86-64
- CentOS 5 x86-64

*Memory speeds vary based on configuration

Compute Blade

VB1320FE

Internal View



FEATURES AT A GLANCE

- Two Six-Core Intel® Xeon® 5600 Series Processors
- Up to 192GB DDR3 Memory
- Intel QuickPath Interconnect
- Native 12v Power Input
- Two Gigabit Ethernet Ports
- Up to 100k + IOPS with Fusion I/O Card
- Up to Two Hot Swap HDD

Processor

- Options Include Two of the Following:
- Dual-Core Intel® Xeon® 5500 Series Processors
 - Quad-Core Intel Xeon 5600 Series Processors
 - Six-Core Intel Xeon 5600 Series Processors

Chipset

- Intel 5550 Chipset (Tylersburg-36D)
- Intel QuickPath Interconnect

Memory

- Supports up to 192GB DDR3-1333 ECC Registered Memory*
- Twelve DIMM Sockets

Storage

- Options Include Up to Two Hot Swap 2.5" Hard Drives:
- Up to 1TB Internal SATA Storage

Networking

- Two Intel 10/100/1000 Network Connections
- Intel 82576 Network Controller

Expansion Slots

- One x16 PCI Express 2.0 Slot

Expansion Card Options

- Options Include One of the Following PCI-E Cards:
- One PCI-Express SAS HBA (RAID 0, 1)
 - One PCI-Express SAS RAID Card (RAID 0,1,5,6,10,50)
 - One PCI-Express 4GB Dual Port Fibre HBA
 - One PCI-Express Fusion I/O Card

Regulations

- Safety EN60950

- Regulatory Markings CSA, CD, Nemko (When Installed in FOREST)

Standard Interfaces

- Two USB 2.0 Ports
- One 15-pin VGA Port
- Two RJ-45 Gigabit Ethernet Ports
- One RJ-45 Management / KVM-IP Port (optional)

Integrated Graphics

- Integrated Video Controller with 16MB

Management and Monitoring

- IPMI 2.0
 - Remote power on/off/reset
 - KVM-IP (optional)

Operating Systems

- Windows® Server 2003/2008
- Red Hat® Enterprise Linux 5 x86-64
- SUSE Linux Enterprise 11 x86-64
- CentOS 5 x86-64

*Memory speeds vary based on configuration

Compute Blade

VB1325FE

Internal View



FEATURES AT A GLANCE

- Two Six-Core Intel® Xeon® 5600 Series Processors
- Up to 288GB DDR3 Memory
- Intel QuickPath Interconnect
- Native 12v Power Input
- Two Gigabit Ethernet Ports
- Up to 100k + IOPS with Fusion I/O Card
- Up to Two Hot Swap HDD

Processor

Options Include Two of the Following:

- Dual-Core Intel® Xeon® 5500 Series Processors
- Quad-Core Intel Xeon 5600 Series Processors
- Six-Core Intel Xeon 5600 Series Processors

Chipset

- Intel 5550 Chipset (Tylersburg-36D)
- Intel QuickPath Interconnect

Memory

- Supports up to 288GB DDR3-1333 ECC Registered Memory*
- Eighteen DIMM Sockets

Storage

- Options Include Up to Two Hot Swap 2.5" Hard Drives:
- Up to 1TB Internal SATA Storage

Networking

- Two Intel 10/100/1000 Network Connections
- Intel 82576 Network Controller

Expansion Slots

- One x16 PCI Express 2.0 Slot

Expansion Card Options

Options Include One of the Following PCI-E Cards:

- One PCI-Express SAS HBA (RAID 0, 1)
- One PCI-Express SAS RAID Card (RAID 0,1,5,6,10,50)
- One PCI-Express 4GB Dual Port Fibre HBA
- One PCI-Express Fusion I/O Card

Regulations

- Safety EN60950

- Regulatory Markings CSA, CD, Nemko (When Installed in FOREST)

Standard Interfaces

- Two USB 2.0 Ports
- One 15-pin VGA Port
- Two RJ-45 Gigabit Ethernet Ports
- One RJ-45 Management / KVM-IP Port (Optional)

Integrated Graphics

- Integrated Video Controller with 16MB

Management and Monitoring

- IPMI 2.0
 - Remote power on/off/reset
 - KVM-IP (optional)

Operating Systems

- Windows® Server 2003/2008
- Red Hat® Enterprise Linux 5 x86-64
- SUSE Linux Enterprise 11 x86-64
- CentOS 5 x86-64

*Memory speeds vary based on configuration

STORAGE BLADES



Cirrascale is the recognized market leader in blade-based storage solutions for the cloud and enterprise data center. The FOREST MDC provides the industry's densest storage configurations with support for up to 26PB of storage capacity.

Utilizing industry leading technologies, such as our patented Vertical Cooling Technology, the FOREST MDC provides the most efficient and scalable solutions available while boasting the lowest TCO of any containerized data center found on the market today.

The versatility of the blade-based storage solution found in FOREST is one of its biggest

strengths. This solution was designed for everything from high-availability Web 2.0 applications to large pools of unstructured data.

In these environments, applications and storage are becoming more converged. Cirrascale's award-winning blade storage solutions take this convergence to the ultimate endpoint by moving the application server closer to the physical storage to minimize network bottlenecks and increase performance. This convergence of storage, server and applications makes our blade-based storage products the ideal platforms

for those organizations seeking cost-effective solutions where processing power, efficiency and storage density are primary concerns.

The blade storage solutions from Cirrascale are modular, blade-based general-purpose application servers with a high density storage capacity capable of supporting a wide spectrum of workloads.

Cirrascale offers storage solutions that will take your organization to the next level.

Storage Blades

SB5315FE

FEATURES AT A GLANCE

- Consolidates Server and Storage Infrastructures with Unsurpassed Energy Efficiency
- Delivers up to 50% Savings in Energy Use While Providing up to 77% Improved Floor Space Utilization Over Traditional Server/Storage Systems
- Up to 1.3PBs of Storage Capacity in Just Two Data Center Floor Tiles

SB1315 HEAD NODE

Processor

- Options Include Two of the Following:
- Quad-Core Intel Xeon 5600 Series Processors
 - Six-Core Intel Xeon 5600 Series Processors

Chipset

- Intel 5520 Chipset (Tylersburg-36D)
- Intel QuickPath Interconnect

Memory

- Supports up to 192GB DDR3-1333 ECC Registered Memory*
- Twelve DIMM Sockets

Storage

- Up to two Hot Swappable 2.5" SATA HDDs
- Dual, Mirrored Boot Drives
- Up to 96TB External Storage:
- Via Four 24TB SB1058 Disk Blades

Networking

- Two Intel 10/100/1000 Network Connections
- Intel 82576 Network Controller

Expansion Slots

- One x8 PCI Express 2.0 slot

Expansion Card Options*

- Options Include One of the Following PCI-E Cards
- One PCI-Express Dual Port 10Gb Ethernet
 - One PCI-Express Quad Port Gigabit Ethernet

Regulations

- Safety EN60950
- Regulatory Markings CSA, CD, Nemko (When installed in FOREST)

Standard Interfaces

- Two USB 2.0 Ports
- One 15-pin VGA Port
- Two RJ-45 Gigabit Ethernet Ports
- One RJ-45 Management / KVM-IP Port (optional)

Integrated Graphics

- ServerEngines LLC Pilot II
- Matrox G200eW Video Controller with 8MB

Management and Monitoring

- IPMI 2.0
- Remote power on/off/reset
- KVM-IP (optional)

Operating Systems

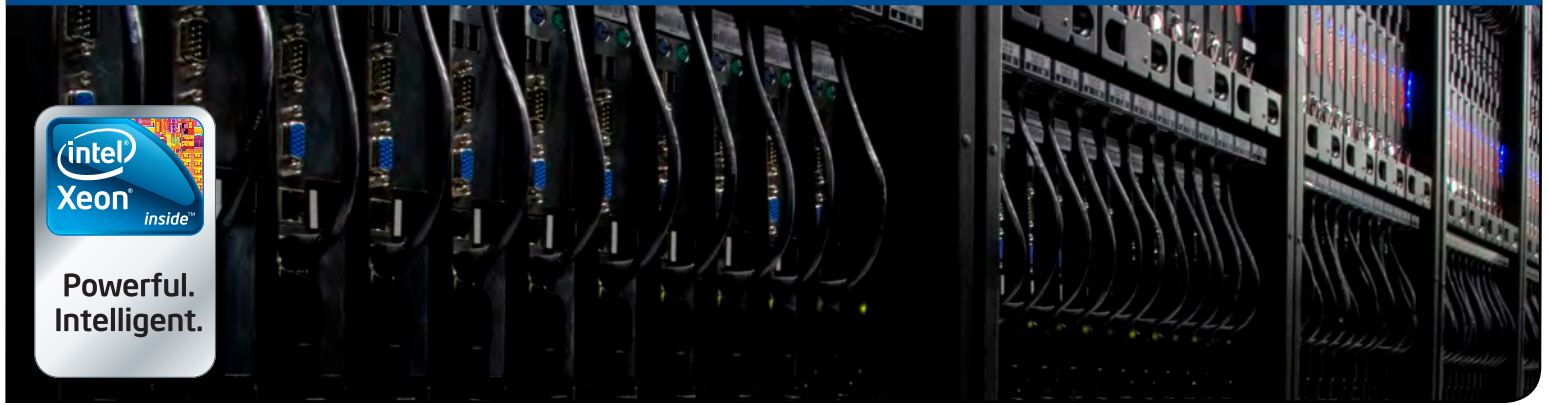
- Windows® Server 2003/2008
- Red Hat® Enterprise Linux 5 x86-64
- SUSE Linux Enterprise 10 x86-64
- CentOS 5 x86-64

SB1058 DISK BLADE

- 12 Hot-Swap SATA II Hard Drives per Disk Blade 1TB, or 2TB SATA HDDs
- Up to Four SB1058 Disk Blades per SB1315 Head Node
- SATA Protocol with SAS Connection to SB1315 Head Node
- Quick Disconnect Hot-swap hard drives
- Individual drive LED indicators

* - Additional Options May Be Available

GPGPU BLADES



For customers demanding the highest density GPGPU solutions available in the market today, Cirrascale offers GPU blade server solutions that will meet your needs.

Our GPU blade servers utilize the latest GPU technology from graphics card partners such as NVIDIA® and ATI. By integrating the latest technologies before its competition, Cirrascale delivers GPU blade servers that are scalability, reliability and offer best price/performance value in the industry.

Cirrascale GPU blades are the ideal solution for GPU-based high performance computing needs.. Solutions can be tailored for use with computational fluid dynamics, seismic data processing, life sciences, electronic design automation and more.

Our GPU blades perform at the highest levels thanks to the award-winning Vertical Cooling Technology contained within the FOREST Modular Data Center platform.

Cirrascale's Patented Vertical Cooling Technology creates a high velocity stream of cool air driving away hot air created by high performance components like GPU's and power supplies. Many blade server and storage installations utilize traditional front to back cooling, which creates hot and cold aisles in the data center as well as causing hot spots that lead to system failure.

GPGPU Blade

GB1315FE

Internal View



FEATURES AT A GLANCE

- Two Six-Core Intel® Xeon® 5500 Series Processors
- Up to 96GB DDR3 Memory
- Intel QuickPath Interconnect
- Native 12V Power Input
- Two Gigabit Ethernet Ports
- Intel HyperThreading Technology
- Up to 72 Blades per BladeRack® 2 FE Platform

Processor

Options include two of the following:

- Dual-Core Intel® Xeon® 5500 Series Processors
- Quad-Core Intel Xeon 5600 Series Processors
- Six-Core Intel Xeon 5600 Series Processors

Chipset

- Intel 5520 Chipset (Tylersburg-36D)
- Intel QuickPath Interconnect

Memory

- Supports up to 96GB DDR3-1333 ECC Registered Memory*
- Twelve DIMM Sockets

Storage

Options Include Up to Four SAS or SATA Hard Drives:

- Up to 8TB Internal SATA Storage
- Up to 1.8TB Internal SAS Storage

Networking

- Two Intel 10/100/1000 Network Connections
- Intel 82576 Network Controller

Expansion Slots

- One x16 PCI Express 2.0 slot

Expansion Card Options

Options Include One of the Following PCI-E Cards:

- One PCI-Express SAS HBA (RAID 0, 1)
- One PCI-Express Infiniband 20GB DDR HBA
- One PCI-Express 4GB Dual Port Fibre HBA

Regulations

- Safety EN60950
- Regulatory Markings CSA, CD, Nemko (When Installed in FOREST)

Standard Interfaces

- Two USB 2.0 Ports
- One 15-pin VGA Port
- Two RJ-45 Gigabit Ethernet Ports
- One RJ-45 Management / KVM-IP Port (optional)

Integrated Graphics

- ServerEngines LLC Pilot II
- Matrox G200eW Video Controller with 8MB

Management and Monitoring

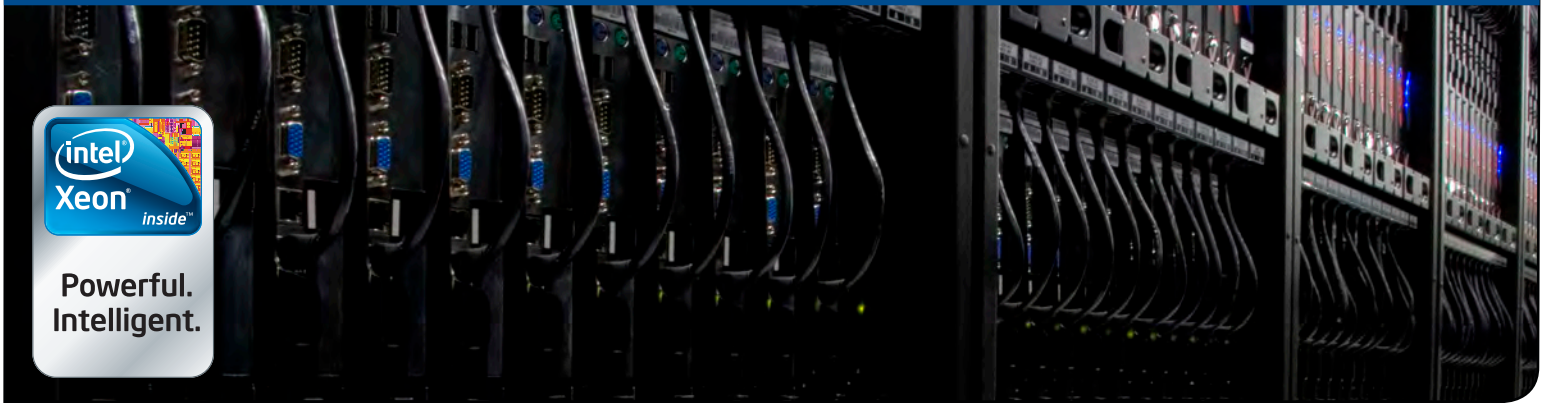
- IPMI 2.0
 - Remote power on/off/reset
 - KVM-IP (optional)

Operating Systems

- Windows® Server 2003/2008
- Red Hat® Enterprise Linux 5 x86-64
- SUSE Linux Enterprise 10 x86-64
- CentOS 5 x86-64

*Memory speeds vary based on configuration

WORKSTATION BLADES



The workstation blades for the FOREST Container platform are high efficiency blade servers that are optimized for space-constrained and data center installations. They are the ideal solution for a full range of enterprise computing or graphics intensive applications. Using the revolutionary PC-over-IP™ technology from Teradici™, Cirrascale introduces Connexus™, a desktop consolidation solution. Connexus provides a centrally supported and cost effective offering for today's data intensive environments, as well as it embraces the emerging requirement

for a more energy efficient data center.

Workstation blades enhance Financial Services applications by enabling system consolidation on the trading desks. Content creation and design houses can employ a multitude of remote workers without having to worry about proprietary data asset loss and supporting various platforms. With multiple offerings available, the FOREST Container will support blades ranging from a single socket entry level call center system to dual socket high end

rendering systems requiring NVIDIA® Quadro video or NVIDIA Tesla GPU cards. The Connexus solution provides support for copper or fiber connectivity, dual hi-resolution monitors (1920 X 1200), optional mounting features and a robust connection broker that allows your IT department the ability to deploy, manage and maintain your entire infrastructure.

Workstation Blade

WS1660FE

Internal View



FEATURES AT A GLANCE

- Supports Quad-Core Intel® Core i7 Series Processors
- Up to 16GB DDR2-667 ECC Registered Memory
- PCI Express x16 2.0 Graphics or GPU Card
- Cirrascale Connexus™ Desktop Over IP Solution Compatible

Processor

- Supports One of the Following:
- Quad-Core Intel Core i7-800 Processor Series
 - Quad-Core Intel Core i5-600 Processor Series

Memory

- Supports up to 16GB DDR3-1333 SDRAM Memory
- Four DIMM Sockets per Node

Storage

- Up to 1TB Internal Storage
- Up to Two 2.5" SATA Hard Drives

Networking

- One Intel Server Network Connection per Blade
- Intel 82578DM Gigabit Ethernet Controller

Operating Systems

- Microsoft® Windows® Server 2003 32/64bit
- Red Hat® Enterprise Linux 4.0 x86-64
- SUSE Linux Enterprise 10 x86-64
- CentOS 4.x x86-64
- Windows XP Pro 32/64bit

Chipset

- Intel Q57 Express Chipset

Regulations

- Safety EN60950
- Regulatory Markings CSA, CE, Nemko (When Installed in FOREST)

PCI-E Card Options

- PNY NVIDIA® Quadro® NVS Video Cards
- PNY NVIDIA Quadro FX Video Cards
- NVIDIA Tesla GPU Cards
- NVIDIA GeForce® Cards

Integrated Graphics

- Integrated 16MB Video Memory

Standard Interfaces

- Up to Fourteen USB 2.0 Ports
- One 15-pin VGA Port
- One RJ-45 Gigabit Ethernet Ports

Video and I/O Transmission

- Cirrascale Connexus™ Host Adapter

CUSTOM CONFIGURATIONS

Cirrascale supports multiple configurations and can tailor any system to your specific needs. If you have questions, please contact us today at (888) 942-3800 and ask to speak with a Cirrascale Account Manager.

ABOUT CIRRASCALE

Cirrascale Corporation is a premier developer of independent blade-based cloud computing and cloud storage platforms for conventional and modular data centers that are defining a new era in the green data center. Cirrascale provides the industry's most energy-efficient and reliable standards-based solutions with the lowest possible total cost of ownership in the absolute densest form factor due to its patented Vertical Cooling Technology. Cirrascale sells directly to large-scale infrastructure operators and managed services providers, and through resellers and distributors to HPC and Cloud segments. Cirrascale also licenses its award winning systems-level designs to technology partners globally.



CIRRASCALE'S GREEN INITIATIVE

Cirrascale is leading the way to the Green Data Center by providing several highly efficient, eco-conscious data center infrastructure solutions. Through innovation, Cirrascale has developed and implemented equipment and procedures to get more by using less. The Cirrascale BladeRack® 2 Series platform and FOREST Modular Data Center solutions are built on industry-leading technology that makes that possible.