

WS1160 Series Blade Server

A MULTI-PURPOSE GPU BLADE FEATURING INTEL® CORE™ MICRO-ARCHITECTURE



PRODUCT OVERVIEW

The Verari Systems® WS1160 Series blade server for the BladeRack® 2 X-Series platform is a high efficiency blade server that is optimized for space-constrained enterprise computing and data center installations. The WS1160 is the ideal solution for a full range of enterprise computing or graphics intensive applications.

When coupled with the Verari Systems' Connexus™ hosted desktop solution, IT managers will be able to deploy a high density, high performance blade-based workstation. Connexus compresses and converts display data, along with the USB signals used by workstation peripherals (displays, keyboards, printers and speakers), and transports this information from the data center directly to the end user via the corporate network. Support for high quality video (up to 1920 x 1200 resolution), audio and multiple USB ports are provided using a small desktop appliance. This solution allows users to have an exceptional desktop experience while avoiding the heat, noise and space generated by high powered

workstations. Financial Service customers find that the WS1160 combined with the Connexus desktop consolidation solution eliminates inefficient, over-priced workstations on the trading floor, simplifying IT management and increasing efficiency.

WS1160XT for BladeRack 2 XT (BR2-XT)

With up to 66 blade servers equaling 264 processor cores per platform, the BR2-XT is designed for data center consolidation. The WS1160XT blade server supports Quad-Core Intel® Xeon® 3300 Series processors and is available with advanced features such as redundant power inputs, blade power metering, serial console interface, remote power monitoring and O/S provisioning. Customers who need extreme performance, efficiency and advanced features will benefit from the BR2-XT's extensive features.

WS1160XL for BladeRack 2 XL (BR2-XL)

With up to 72 blade servers equaling 288 processor cores per platform, the BR2-XL is the densest storage

and compute platform on the market. The BR2-XL provides customers with a lower cost alternative when features such as redundant power and robust management are not needed. The WS1160XL blade server supports the latest Quad-Core Intel® Xeon® 3300 Series processors and is available with an 80%+ efficient power supply and IPMI 2.0 for system monitoring and management.

*WS1160XL Model Pictured

FEATURES AT A GLANCE

- Supports Quad-Core Intel® Xeon® 3300 Series Processors
- Up to 8GB DDR2-667 ECC Registered Memory
- PCI Express x16 2.0 Graphics or GPU Card
- Verari Systems Connexus™ Desktop Over IP Solution Compatible

General Specifications

Processor

Supports One of the Following:

- Dual-Core Intel® Xeon® Processor 3000 Series (up to 3GHz)
- Dual-Core Intel Xeon Processor 3100 Series (up to 3GHz)
- Quad-Core Intel Xeon Processor X3200 Series (up to 2.66GHz)
- Quad-Core Intel Xeon Processor X3300 Series (2.83GHz)

Memory

- Supports up to 8GB DDR2-667 ECC Memory
- Four DIMM Sockets per Node

Storage

- Up to 400GB Internal Storage
- Up to Two 2.5" SATA Hard Drives

Networking

- Two Intel Server Network Connections per Blade
- Intel 82575EB LAN 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 X38 Chipset

Regulations

- Safety EN60950
- Regulatory Markings CSA, CE, Nemko (when installed in BladeRack 2)

PCI-E Card Options

- PNY NVIDIA® Quadro® NVS 285 Video Card
- PNY NVIDIA® Quadro® NVS 290 Video Card
- PNY NVIDIA Quadro FX 5600 Video Card
- NVIDIA Tesla C870 GPU Card
- NVIDIA GeForce® 8800

Integrated Graphics

- Integrated 16MB Video Memory

Standard Interfaces

- Two USB 2.0 Ports
- One 15-pin VGA Port
- Two RJ-45 Gigabit Ethernet Ports

Video and I/O Transmission

- Verari Connexus™ Host Adapter

Environmental

- Operating Temperature
10° C to 25° C (50° F to 77° F)
- Non-operating Temperature
-40° C to 65° C (-40° F to 149° F)

Platform Specific

WS1160XT

Management and Monitoring

- Verari Command Center® 3.x Standard
 - Hardware-level monitoring IPMI 2.0
 - Remote power on/off/reset
 - Web-enabled GUI
 - Blade auto-discovery
 - O/S Provisioning (optional)
 - Command Line Interface (optional)
 - Blade power metering (optional)
 - Remote BIOS upgrade (optional)
 - Advanced front panel LCD management (optional)
 - Remote serial console (optional)

Front View



Rear View



Internal View



WS1160XL

Management and Monitoring

- IPMI 2.0 via the BMC
 - Remote power on/off/reset
 - KVM over IP (optional)

Front View



Rear View



Internal View



CUSTOM CONFIGURATIONS

Verari Systems 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 Verari Systems Account Manager.

ABOUT VERARI SYSTEMS

Verari Systems, Inc. is the premier developer of energy efficient data center and desktop consolidation platforms utilizing independent blade-based compute and storage solutions that are defining a new era in the green data center. Verari Systems is a market leader in blade storage and energy efficient platforms. Organizations such as Wachovia, Akamai, Microsoft, Qualcomm, CGGVeritas, Harris, Lockheed Martin, Northrop Grumman, and Sony Imageworks, as well as top universities and research institutions worldwide, are among the customers who have chosen Verari Systems' line of award-winning high density blade storage and servers, rack-optimized platforms and software solutions.

