

VB1257 Series Blade Server

VIRTUALIZE YOUR DATA CENTER WITH THE VMWARE ESX SERVER CERTIFIED SOLUTIONS



PRODUCT OVERVIEW

The VB1257 Series for the BladeRack® 2 X-Series from Verari Systems® is a high performance blade system that is optimized for space-constrained enterprise computing and data center installations. The VB1257 Series servers feature the latest Quad-Core Intel® Xeon® 5400 Series processors and a 1600MHz front side bus for increased performance. The Service Provider industry running Web 2.0 and software as a service applications and the Financial Services industry running transaction processes will benefit from faster processors, fully buffered DIMM modules, and Intel Virtualization Technology, provided by the VB1257 blade server. It is the ideal solution for a full range of memory and compute intensive applications.

Certified for use with VMware® ESX Server, the VB1257 Series is an ideal solution for virtual machine serving and enables server consolidation while reducing operational expenses. Available with four Gigabit Ethernet ports and optional Fibre Channel HBAs, the VB1257 Series is designed from the ground up with virtualization in mind.

Improve productivity, security and power efficiency with the VB1257 Series blade servers based on the new Quad-Core Intel Xeon 5400 Series processor. New

memory and I/O innovations boost system performance, while built-in technologies help improve power efficiency and keep critical business information protected.

The Verari Systems VB1257XL blade server is designed with the data center of the future in mind and is available with advanced features such as IPMI 2.0 management, KVM-IP and remote media which allows for hardware monitoring, complete power control and software installation/maintenance to be achieved without ever having to visit the server.

If more robust power and management features are required, the VB1257XT blade is available with advanced features such as redundant power inputs, blade power metering, serial console interface, remote O/S and BIOS provisioning. An integrated LCD management interface is also available in the VB1257XT, which allows for viewing blades status at a glance.

Each blade supports up to 64GB of fully buffered DDR2-800 ECC registered memory making it ideal for virtualization. The VB1257 Series blades provides exceptional scalability and features Intel's Demand

Based Switching and I/O AT Technology which provide increased power efficiency and network performance to meet the demanding requirements of today's enterprise workloads.

FEATURES AT A GLANCE

- Two Quad-Core Intel® Xeon® 5400 Series Processors
- Up to 64GB DDR2-800 RAM
- VMware ESX Server Certified
- Intel I/O Acceleration Technology
- Intel Virtualization Technology
- Four Gigabit Ethernet Ports
- Optional Dual Port Fibre Channel HBA

General Specifications

Processor

- Two Quad-Core Intel® Xeon® Processors 5400 Series (Up to 3.0GHz)

Chipset

- Intel 5400 Chipset
- 1600MHz FSB

Memory

- Supports Up to 64GB DDR2-800 ECC Registered Memory
- Sixteen FBDIMM Sockets

Storage

- Up to 294GB of Internal SAS Storage
- LSI 1064e SAS Controller

Up to 160GB Internal SSD Storage:

- One or Two 32GB SLC SSD Drives (250MB/s and 35k+ Read IOPS)
- One or Two 80GB MLC SSD Drives (250MB/s)

Networking

- Four Gigabit Ethernet Ports
- Intel 82563EB and 82571EB Network Controllers

Standard Interfaces

- Two USB 2.0 Ports
- One 15-pin VGA Port
- Four RJ-45 Gigabit Ethernet Ports
- One RJ-45 Management/Serial Port

Integrated PCI Graphics

- ATI ES1000 Chipset
- 32MB Video Memory

Expansion

Available with one of the Following Fibre Channel HBAs

- Qlogic Dual Port 4GB Fibre HBA (Optional)
- Emulex Dual Port 4GB Fibre HBA (Optional)

Operating Systems

- VMware ESX Server 3.5

Virtualization Options

- Storage Support
 - Internal SAS Storage
 - iSCSI SAN Storage
 - Fibre Channel SAN Storage
- Advanced Features
 - Live Migration (VMotion)*
 - High Availability*
 - Dynamic Workload Management*

*Requires VMware VirtualCenter Server

Environmental

- Operating Temperature
 - 5° C to 35° C (41° F to 95° F)
- Non-operating Temperature
 - 40° C to 70° C (-40° F to 158° F)

Platform Specific

Management and Monitoring

- Verari Command Center® 3.x Standard
 - Hardware-level monitoring
 - 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)
 - Multi-Rack support (optional)
 - Microsoft Operations Management support (optional)
 - Active Directory and LDAP integration (optional)
 - KVM-IP (optional)

Power Distribution

The BR2-XT accepts a standard 480VAC, 208VAC, or 400VAC connections for incoming voltage with options for redundant power inputs.

- Domestic
 - 208VAC via two 30A or 50A 3-phase plugs (non-redundant)
 - 480VAC via one 50A 3-phase plug (non-redundant)
 - 480VAC via two 50A 3-phase plug (redundant configuration)
- International
 - 400VAC via one 60A plug (3-phase) (non-redundant)
 - 400VAC via two 60A plugs (3-phase) (redundant configuration)

VB1257XL

Management and Monitoring

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

Power Distribution

The BR2-XL Accepts Standard 208VAC or 240/400VAC Connections for Incoming Voltage

- Domestic
 - 208VAC via two 30A or 50A 3-phase plugs (non-redundant)
- International
 - 240/400VAC via two 30A or 50A 3-phase plugs (non-redundant)

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 Virgin America, Morgan Stanley, Wachovia, Akamai, Microsoft, Qualcomm, CGGVeritas, Petrobras, 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.

