

BladeRack® 2 E-Class

THE PREMIER PLATFORM FOR ENTERPRISE DATA CENTER CONSOLIDATION



PRODUCT OVERVIEW

The BladeRack® 2 E-Class from Verari Technologies was designed with enterprise-class data centers in mind. End users with resource-hungry applications and power-conscious facility managers that demand availability will enjoy the best of both worlds with an ultra efficient (up to 90%+), fully redundant power architecture and comprehensive line of available compute and storage blade offerings. The full redundancy at both the node and rack level makes the BladeRack 2 E-Class the ideal solution to ensure your customers are never left without their critical data and applications. Built upon the success of the original BladeRack 2 platform, the E-Class platform is perfect for mission critical customer installations where high availability, ultra dense systems are a requirement.

With the marriage of robust features and performance, customers in the Financial Services industry would find the BladeRack 2 E-Class an excellent vehicle for desktop consolidation and high performance grid installations while its ultra efficient power architecture fits seamlessly in their current power challenged environments. Data center administrators in the Service Provider field would increase efficiency by utilizing the added connectivity options for virtual machine serving while dramatically cutting power and cooling costs due to the efficient design.

The BladeRack 2 E-Class platform employs the industry leading patented Vertical Cooling Technology™. This allows Verari Technologies to employ the fastest and most powerful processors available on the market without the performance loss commonly found in blade servers from other vendors. The BladeRack 2 E-Class utilizes an ultra-efficient, auto-sensing 208-400VAC, 50/60Hz, 3-Phase input power solution that

will drastically reduce your organization's energy expenditure. The efficiency of this power subsystem also allows IT staff to spend fewer resources on heat related failures and provides the ultimate availability with fully redundant power inputs, power distribution modules and power supplies. This ultra-redundant power system allows for greater server uptime, further protecting the investments of customers.

The BladeRack 2 E-Class supports the Verari Management Control System (MCS) software which enables IT managers to maximize the production of their data centers remotely whether it's a single blade or a row of racks they are managing. The scalable Verari Smart Control system management suite increases and improves connectivity options while maintaining a high level of security.

With its ability to house up to 1.15PB of storage or 792 processing cores per rack, the BladeRack 2 E-Class is one of the densest and most versatile blade server platforms on the market today. This combination of density, redundancy and efficiency cannot be found anywhere else in the enterprise landscape.

GREEN INITIATIVE

Conservation of the environment and rising power needs have become major concerns for the Power and Utility industry. The largest consumer of power is the enterprise computing community. Technology continues to advance, delivering more processing power than ever before taxing the power and cooling infrastructures in place. In addition to this, as the demand for unstructured data grows, it requires more space, consuming valuable real-estate and uses additional resources.



Through innovation, Verari Technologies has developed and implemented equipment and procedures that achieve more by using less. Verari has made environmental responsibility a manufacturing priority by increasing the overall energy effectiveness of all our product lines while keeping the vision of the green data center in mind. Verari Technologies, through voluntary action, is committed to the reduction of e-waste utilized in the production of computers and other technological devices.

FEATURES AT A GLANCE

- Boost System Efficiency and TCO for SaaS Applications
- Enhance Availability for Mission Critical Financial Services Applications
- Industry Leading Storage Capacity of up to 1.15PB per Platform
- Up to 792 Processing Cores per Platform
- Up to 66 Server Blades per Rack
- Industry Leading Patented Vertical Cooling Technology™
- Supports Verari Technologies' Award Winning DataServer Solutions
- Scalable Verari Management Control System Software
- Fully Redundant Power System
- Ultra-Efficient (Up to 90%+) Power Delivery

CUSTOM CONFIGURATIONS

Verari Technologies 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 Technologies Account Manager.

ABOUT VERARI TECHNOLOGIES

Verari Technologies, Inc. is the premier developer of scale-out blade-based computing and storage platforms for Cloud, Web 2.0, and the global enterprise. Verari provides scale-out solutions for the world's largest data centers that reduce power and cooling demands while achieving the best density, availability, and energy efficiency for the highest total value of ownership. Organizations such as Virgin America, Morgan Stanley, Wachovia, Microsoft, Qualcomm, Johns Hopkins, EMC, 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 Technologies' award-winning containerized data centers and high density blade-based platforms.



Architecture

- Separate Management and Data Networks
- Integrated System Management Controller
- Optional BladeSwitch Connectivity Modules
- Redundant Power Inputs
- Redundant Power Distribution Modules
- Redundant Power Blades
- Patented Vertical Cooling Technology™

Capacity

- Up to 66 Blades
- Up to 300 Ethernet Connections
- Up to 792 Processing Cores
- Up to 1.15PB Maxium Storage Capacity

Rack Dimensions and Weight

Height: 2222 mm (87.5 in.)
 Width: 609 mm (24.0 in.)
 Depth: 1168 mm (46.0 in.)
 Weight: 907.1kg (2000 lbs.)

Power System

- Auto-Sensing 208V - 400V, 50/60Hz, 3-Phase Input Power
- Redundant Power Inputs
 - Two Hubbell CS8365C, 50A twist-lock plugs
- Ultra High-Efficiency
 - Up to 90%+ at 208V input
- MTBF in Excess of 250,000 Hours

Management Options

- Rack Enclosure
 - Single point multi-rack support
 - Power blade control
 - Fan control
 - PDM control
- Blades
 - Voltage, temperature
 - Receive events from BMC
 - On/off/reset
 - Power status
 - KVM over IP support

| BLADERACK 2 E-CLASS BLADE MATRIX | Blade | Processor | Memory | Storage | Special Features |
|----------------------------------|-------------------------------|----------------------------------|----------------|--------------------|------------------------------|
| | VB1255XE/ VB1257XE | Two Intel® Xeon® 3GHz / 1600MHz | 128GB DDR2-800 | 600GB SAS/1TB SATA | VB1257XE is VMware Certified |
| | VB1285XE | Two Intel Xeon 3GHz / 1333MHz | 24GB DDR2-667 | 600GB SAS/4TB SATA | |
| | VB1305XE | Two Intel Xeon 5600 Series | Up to 64GB | Up to 1TB | Hot Swap SSD and HDD Options |
| | VB1310XE/VB1312XE | Two Intel Xeon 5600 Series | Up to 144GB | Up to 4TB | VB1312XE is VMware Certified |
| | VB1315XE | Two Intel Xeon 5600 Series | Up to 96GB | Up to 8TB | Pending VMware Certification |
| | VB1550XE* | Two AMD Opteron 2400 Series | Up to 64GB | 900GB SAS/4TB SATA | SSD Options |
| | VB2240XE | Four Intel Xeon 2.4GHz / 1066MHz | 192GB DDR2-667 | 1.2TB SAS/2TB SATA | |
| | VB2242XE | Four Intel Xeon 2.4GHz / 1066MHz | 192GB DDR2-667 | 1.2TB | VMware Certified |
| | WS1160XE* | One Intel Xeon 3GHz / 1333MHz | 8GB DDR2-667 | 1TB SATA | Connexus |
| WS2260XE* | Two Intel Xeon 3GHz / 1600MHz | 128GB DDR2-800 | 4TB SATA | Connexus | |

*This blade is BTO only and will require a longer than standard lead time.

| BLADERACK 2 X-SERIES MATRIX | E-Class | |
|---|-------------------------------------|--------------------|
| | Cooling | VCT |
| | Maximum Density | 66 Blades |
| | Power To Rack | 208/400VAC |
| | Power To Blade | 12VDC |
| | Power Efficiency | Up to 90%+ |
| | Height | 2222mm (87.5 in.) |
| | Maximum Weight Fully Populated | 1409kg (3100 lbs.) |
| | Maximum Weight (Compute Only) | 1147kg (2530 lbs.) |
| | Depth With Doors | 1360mm (53.5 in) |
| | Width | 609mm (24 in.) |
| | Management | Verari MCS / IPMI |
| | Maximum Storage Capacity | 1.15PB |
| | Redundant Power Inputs | Yes (Standard) |
| | Redundant Shelf Power | Yes (Standard) |
| | Redundant Power Distribution Module | Yes (Standard) |
| Utility Space | 7U | |
| Maximum # of Processor Cores | 792 | |
| Ability To Mix Compute and Storage Blades | Yes | |

