

# 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 5500 Series	Up to 64GB	Up to 1TB	Hot Swap SSD and HDD Options
	VB1310XE/VB1312XE	Two Intel Xeon 5500 Series	Up to 144GB	Up to 4TB	VB1312XE is VMware Certified
	VB1315XE	Two Intel Xeon 5500 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	

