

# BladeRack® 2 X-Series

THE INDUSTRY'S LEADING DATA CENTER CONSOLIDATION SOLUTIONS



## PRODUCT OVERVIEW

The BladeRack® 2 X-Series platforms from Verari Technologies are a series of innovative platforms built for energy efficiency and high performance. With the ability to house the latest and fastest processors available on the market, the BladeRack 2 X-Series provides unparalleled investment protection. No other platforms available today have the ability to provide such capable and powerful components in a variety of energy efficient chassis. The BladeRack 2 X-Series are platforms with remarkable flexibility that will drastically lower your total cost of ownership while increasing capacity and performance.

The BladeRack 2 X-Series platforms employ 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. Increased thermal capacity has been incorporated into the design, as well as the ability to adjust airflow within the cabinet. Our patented Vertical Cooling Technology has proven over time to save money by reducing energy expenditure and ensuring reliability.

The BladeRack 2 X-Series utilizes an ultra-efficient, auto-sensing 208V - 400V, 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. The option for fully redundant power system allows for greater server uptime, further protecting the investments of customers.

The BladeRack 2 platforms support the groundbreaking Verari Management Control System (MCS) software

solution 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.

## 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.

## 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,

## FEATURES AT A GLANCE

- Supports the Most High Performance Servers Available on the Marketplace Today
- Up to 96 Server Blades per Rack
- Up to 864 Processing Cores per Rack
- Up to 1.3PB of Storage Capacity per Rack
- Capable of Housing Compute and Storage Blades in the Same Rack
- Patented Vertical Cooling Technology™ Provides the Most Efficient and Effective Data Center Cooling Solution on the Market Today
- Optional Redundant Power Inputs
- Auto-sensing 208V - 480V, 50/60Hz, 3-Phase Input Power

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.



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.



**Architecture**

- Separate Management and Data Networks
- Optional Layer 3 Switches with 10GbE Uplinks
- Optional Redundant Power Inputs
- Warm-Pluggable Components
- Patented Vertical Cooling Technology

**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**

- Power Subsystem
- Auto-Sensing 208V - 480V, 50/60Hz, 3-Phase Input Power
- Optional Redundant Power Inputs
- Ultra High-Efficiency
  - In Excess of 85% in XL and XM Models
- MTBF in Excess of 250,000 Hours

**Management**

- BladeRack 2 XL and XM Series
  - IPMI 2.0
  - Remote power on/off/reset
  - KVM-IP (optional)

**Blades**

- On/off/reset
- Voltage, temperature
- Power status
- Receive events from BMC
- AD/LDAP
- Reporting
- Remote Serial Console Support
- KVM over IP Support
- Customizable Event Detection and Notification -Published
- Management API -VMWare ESX Support

**Compatible Storage Blades**

- SB5165XL
- SB5168XL
- SB5210XL

**Compatible Blade Servers**

- VB1205XM
- VB1255XL
- VB1257XL
- VB1280XL
- VB1285XL
- VB1305XL
- VB1307XL
- VB1310XL
- VB1312XL
- VB1315XL
- VB1550XL
- VB2240XL
- VB2242XL
- VB2262XL
- VB2560XL
- WS1160XL
- WS2260XL

**Front View - BladeRack 2 XM**



**MATRIX**

	BladeRack 2 X-Series	
	XL	XM
Cooling	VCT	VCT
Maximum Density	72 Blades	96 Blades
Power To Rack	208/400VAC	208/400VAC
Power To Blade	208VAC	208VAC
Power Efficiency	85%+	85%+
Height	2222mm (87.5 in.)	2222mm (87.5 in.)
Maximum Weight Fully Populated	1409kg (3100 lbs.)	1377kg (3036 lbs.)
Maximum Weight (Compute Only)	1147kg (2530 lbs.)	1147kg (2530 lbs.)
Depth With Doors	1360mm (53.5 in)	1360mm (53.5 in.)
Width	609mm (24 in.)	609mm (24.0 in.)
Management	IPMI (Optional)	IPMI (Optional)
Maximum Storage Capacity	1.3PB	192TB
Redundant Power Inputs	(Optional)	(Optional)
Redundant Shelf Power	No	No
Redundant Power Distribution Module	No	No
Utility Space	7U	7U
Maximum # of Processor Cores	864	768
Ability To Mix Compute and Storage Blades	Yes	No

\*Depends on config