

RES Rack Mountable Servers

RES-XR4-3U-16D RACK MOUNTABLE SERVER DATA SHEET



INDUSTRY-LEADING PERFORMANCE, ENHANCED RELIABILITY AND SUPERIOR RESILIENCE TO SHOCK, VIBRATION, AND TEMPERATURE EXTREMES

The Themis RES-XR4-3U-16D rack mounted server features up to two E5-2600 V2 Series Intel® Xeon® processors with up to twelve cores per socket, 512 GB DDR3 ECC memory, and up to sixteen removable 2.5 inch SATA or SAS disk drives to provide industry-leading performance and superior resilience to shock, vibration, and temperature extremes.

Built for enhanced reliability and coupled with high throughput I/O and storage capabilities, The system includes a high performance RAID controller that supports SAS3 (12Gbps) data rates. The storage system will transfer data internally at 6 GBytes/sec. Its storage capability and its expandability to high bandwidth I/O cards, make it ideal for the most demanding military, industrial, or rugged commercial applications like data recording, radar/signal processing, or 3D cartography.

The RES-XR4-3U-16D server provides configuration versatility and system expansion to meet your current and future system requirements, and can be mounted in standard commercial racks or mobile rugged transit cases.

Themis provides systems integrators and end-users with the best-of-breed computing resources available, and works closely with them to optimize computing solutions that are easy to integrate, yet inexpensive to own and operate. For the most current information on Themis products, visit www.themis.com.

PROCESSOR AND CPU

- ▶ Up to two E5-2600 V2 Series Intel® Xeon® processors with up to twelve cores per socket
- ▶ Up to 512 GB DDR3 ECC

MANAGEMENT AND OPERATING SYSTEM

- ▶ Windows® and Linux® application support
- ▶ IPMI v2.0 support

ENVIRONMENTAL RESILIENCY

- ▶ Operating temperature range: 0°C to 55°C
- ▶ Operating shock: 3 axis, 35g, 25ms
- ▶ Operating vibration: 4.76 Grms, 5Hz to 2000Hz (SSD)
- ▶ Operating humidity: 8% to 95% non-condensing*
- ▶ MIL-STD-810G, MIL-S-901D, MIL-STD-167-1*
- ▶ MIL-STD-461 options available

MECHANICAL

- ▶ Height: 3RU or 5.25 inches (133.35 mm)
- ▶ Width: 17 inches (432 mm)
- ▶ Depth: 21 inches (533 mm)
- ▶ Weight (typical*): 29 pounds (11.3 kg)

MODULAR MAINTAINABILITY

- ▶ Removable fans (3)
- ▶ Power supply options: single or redundant 1200W 110/220 VAC (50/60Hz, 400Hz)
- ▶ Removable 2.5 inch SATA or SAS disk drives (16)

* Themis designs all products to meet or exceed listed data sheet specifications. Some specifications are configuration dependent.





PROCESSOR AND CPU	
PARAMETER	DESCRIPTION
Processor	Up to two E5-2600 V2 Series Intel® Xeon® processors with up to twelve cores per socket
Memory	Up to 512 GB DDR3 ECC

ON-BOARD EXPANSION	
PARAMETER	DESCRIPTION
Expansion slots	Seven PCI-E 3.0 card slots: four PCI 3.0 x16, two PCI 3.0 x8 (in x16 slot), and PCI 2.0 x8 (in x8 slot)

FRONT PANEL AND REAR PANEL ACCESS I/O, NOTE 1		
I/O	QUANTITY	ACCESS
Removable 2.5 Inch SATA or SAS disk drives	Up to 16	Front panel
CD-RW/DVD-RW drive	1	Front panel
Status LEDs	7	Front panel
Gigabit Ethernet or 10 Gigabit Ethernet ports (RJ45)	2	Rear panel
USB 3.0 ports	4 standard vertical I/O or 2 standard horizontal I/O	Rear panel
IPMI 2.0 port	1	Rear panel
Power connector	1 or 2	Rear panel
Power switch	1	Rear panel
VGA graphics	1	Rear panel

ENVIRONMENTAL		
PARAMETER	NON-OPERATING	OPERATING
Temperature range	-40°C to 70°C	0°C to 55°C
Humidity (non-condensing)	5% to 95%	8% to 95%
Shock	3 axis, 35g at 25 ms	3 axis, 35g at 25 ms
Vibration (10-2000Hz)	4.76 Grms, 5Hz to 2000Hz (SSD)	4.76 Grms, 5Hz to 2000Hz (SSD)

MECHANICAL	
PARAMETER	NON-OPERATING
Dimensions	Height: 3RU or 5.25 inches (133.35 mm) Width: 17 inches (432 mm) Depth: 20 inches (508 mm)
Weight (typical), Note 3	25 lbs (11.3 kg)
Chassis features	Coated aluminum for light weight and corrosion resistance Stainless steel in selected areas to add strength and stiffness Modular design for easy upgrade and service Optional rack-mount slides and shock pins Front to rear airflow

MODULAR MAINTAINABILITY	
PARAMETER	DESCRIPTION
Removable fans	3
Power supply options	Single or redundant 1200W 110/220 VAC (50/60Hz, 400Hz)
Hot pluggable disk drives	16

Notes

- Themis designs all products to meet or exceed listed data sheet specifications. Some specifications are configuration dependent. I/O options are configuration dependent.
- Extended temperature range is dependent on system configuration/components and application thermal profile. Please contact Themis for information specific to your desired configuration requirements.
- Weights are provided for typical configurations. Weight may vary depending on configuration. Contact your Themis sales representatives for more information.

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