



RES-XR4-1U Dual Socket, 17 or 20 Inch Rack Mountable Server

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

Featuring one or two E5-2400 or E5-2600 V2 Series Intel® Xeon® processors with up to twelve cores, 512 GB DDR3 ECC memory, and enhanced reliability features, the Themis RES-XR4-1U server provides industry-leading performance and superior resilience to shock, vibration, and temperature extremes.

Designed for military, industrial, or rugged commercial use, the RES-XR4-1U server keep mission-critical applications available in demanding environments where Size, Weight, and Power (SWAP) is an important consideration.

CONFIGURATION FLEXIBILITY

The RES-XR4-1U server provides configuration versatility and system expansion to meet your current and future system requirements. The RES-XR4-1U rack mounted servers can be mounted in standard commercial racks or mobile rugged transit cases.

THEMIS VALUE

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

- ▶ One or two E5-2400 or E5-2600 V2 Series Intel® Xeon® processors with up to twelve cores
- ▶ 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
- ▶ Extended temperature range: -15°C – 65°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-STD-901D, MIL-STD-167-1*
- ▶ MIL-STD-461 options available

MECHANICAL

- ▶ Height: 1RU or 1.75 inches (44.45 mm)
- ▶ Width: 17 inches (432 mm)
- ▶ Depth: 17 inches (423 mm) or 20 inches (508 mm)
- ▶ Weight (typical)*
 - 17 inch depth: 17 pounds (7.7 kg)
 - 20 inch depth: 19.5 pounds (8.8 kg)

MODULAR MAINTAINABILITY

- ▶ Removable fans (5)
- ▶ Power supply options
 - Single or redundant 110/220 VAC, 750 Watt (50/60Hz, 400Hz)
 - Single or redundant 18-36 VDC, 32 Amp (500 W)
 - Single or redundant 36-72 VDC, 18 Amp (500 W)
- ▶ Hot pluggable disk drives (3)

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





ON-BOARD EXPANSION		
PARAMETER	DESCRIPTION	
Expansion slots	1 PCIe 3.0 x 16	
	1 PCIe 3.0 x 8	
PROCESSOR AND CPU		
PARAMETER	DESCRIPTION	
Processor	One or two E5-2400 or E5-2600 V2 Series Intel® Xeon® processors with up to twelve cores	
Memory	Up to 512 GB DDR3 ECC	
FRONT PANEL AND REAR PANEL ACCESS I/O, NOTE 1		
I/O	QUANTITY	ACCESS
Removable 2.5 SATA or SAS disk drives	Up to 3	Front panel
CD-RW/DVD-RW drive	1	Front panel
Status LEDs	7	Front panel
Gigabit Ethernet ports (RJ45)	2	Rear panel
USB 2.0 ports	2 standard	Rear panel
RS-232 serial ports (DB9)	1 standard	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
Extended Temperature range	-40°C to 70°C	-15°C – 65°C, Note 2
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: 1RU or 1.75 inches (44.45 mm)	
	Width: 17 inches (432 mm)	
	Depth: 17 inches (423 mm) or 20 inches (508 mm)	
Weight (typical), Note 3	17 inch depth: 17 pounds (7.7 kg) 20 inch depth: 19.5 pounds (8.8 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	5	
Power supply options	Single or redundant 110/220 VAC (50/60Hz, 400Hz) Single or redundant 18-36 VDC, 32 Amp Single or redundant 36-72 VDC, 18 Amp	
Hot pluggable disk drives	3	

Notes

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

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