

RES-XR5-3U
3U, 17 INCH DEPTH, 16 DRIVE, REAR IO
STANDARD DENSITY RACK MOUNTED SERVER DATA SHEET



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

Featuring up to two E5-2600 v3/v4 Series Intel® Xeon® processors with up to twenty two cores per socket, 512GB DDR4 ECC memory, and enhanced reliability features, the Themis RES-XR5-3U server provides industry-leading performance and superior resilience to shock, vibration, and temperature extremes.

Designed for rugged commercial, military, or industrial use, the RES-XR5-3U server keeps mission-critical applications available in demanding environments where Size, Weight, and Power (SWAP) is an important consideration.

CONFIGURATION FLEXIBILITY

The RES-XR5-3U server provides configuration versatility and system expansion to meet your current and future system requirements. RES-XR5-3U 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

- ▶ Up to two E5-2600 v3/v4 Series Intel® Xeon® processors with up to twenty cores per socket
- ▶ Up to 512GB DDR4 ECC

EXPANSION

- ▶ Up to five PCIe 3.0 cards and 1 PCIe 2.0 card

MANAGEMENT AND OPERATING SYSTEM

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

ENVIRONMENTAL RESILIENCY

- ▶ Operating temperature range: 0°C to 50°C
- ▶ Extended temperature range: -15°C – 65°C **
- ▶ Operating shock: 3 axis, 35g, 25ms
- ▶ Operating vibration: 4.76 Grms, 8Hz 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: 3U or 5.25 inches (133.35 mm)
- ▶ Width: 17 inches (432 mm)
- ▶ Depth: 17 inches (432 mm)
- ▶ Weight (typical*): 29 pounds (13.1 kg)

MODULAR MAINTAINABILITY

- ▶ Fans: 3
- ▶ 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
- ▶ Removable disk drives: 16

* 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.



SYSTEM		
PARAMETER	QUANTITY	DESCRIPTION
Processor	2	E5-2600 v3/v4 Series Intel® Xeon® processors with up to twenty two cores per socket
Memory		Up to 512GB DDR4 ECC
Expansion Slots	6	Up to (3) PCIe 3.0 x16 (1) PCIe 3.0 x8, (1) PCIe 3.0 x4, (1) PCIe 2.0 x4
Removable 2.5" SATA or SAS disk drives	16	Front access HDD (up to 2TB) or SSD drives (up to 4TB each)
Disk on Module	2	Up to 128GB per DOM
Internal SATA Drives	2	Option for 2 additional internal HDD or SSD
Network	2	1GbaseT ethernet
RAID Contoller	1	On board for up to (2) internal boot drives
RAID Controller	1	Adaptec RAID 81605ZQ (2281200-R) for up to (16) front access drives

FRONT AND REAR PANEL I/O ACCESS		
I/O	QUANTITY	ACCESS
CD-RW/DVD-RW drive	1	Front
Status LEDs	7	Front
Gigabit Ethernet ports (RJ45)	2	Rear
USB ports	6	(2) USB 2.0 & (2) USB 3.0 in rear, (2) 3.0 in front
IPMI 2.0 port	1	Rear
Power connector	1 or 2	Rear
Power switch	1	Front
VGA graphics	1	Rear (additional VGA, HDMI, DVI options available)

ENVIRONMENTAL, NOTE 1		
PARAMETER	NON-OPERATING	OPERATING
Temperature range	-40°C to 70°C	0°C to 50°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 (10-2000 Hz)	4.76 Grms, 5Hz to 2000Hz (SSD)	4.76 Grms, 8Hz to 2000Hz (SSD)

MECHANICAL	
PARAMETER	DESCRIPTION
Dimensions	Height: 3U or 5.25 inches (133.35 mm) Width: 17 inches (432 mm) Depth: 17 inches (432 mm)
Weight (typical), Note 3	29 lbs (13.1 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, and front to rear airflow
Filter	Front Filter Option

MODULAR MAINTAINABILITY	
PARAMETER	DESCRIPTION
Fans	3
Power Supply	Single or redundant 110/220 VAC (50/60Hz, 400Hz) Single or redundant 18-36 VDC, 32 Amp Single or redundant 36-72 VDC
Hot pluggable disk drives	16

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. 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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More Information
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