



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 cores per socket, 1 TB DDR4 ECC memory, and enhanced reliability features, the Themis RES-XR5-1U server provides industry-leading performance and superior resilience to shock, vibration, and temperature extremes.

Designed for military, industrial, or rugged commercial use, the RES-XR5-1U server keeps mission-critical applications available in demanding environments where Size, Weight, and Power (SWAP) is an important consideration, and brings next generation technology to mission-critical military, industrial, and commercial applications.

CONFIGURATION FLEXIBILITY

The RES-XR5-1U server provides configuration versatility and system expansion to meet your current and future system requirements. RES-XR5-1U 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 1 TB DDR4 ECC

ON-BOARD EXPANSION

- ▶ One PCIe 3.0 16X full-height card and one PCIe 3.0 8X half-height card

ON-BOARD SSD

- ▶ Two trap-door mounted M.2 storage modules with up to 512 GB per module

MANAGEMENT AND OPERATING SYSTEM

- ▶ Windows® and Linux® application support
- ▶ IPMI v2.0 support
- ▶ Fully compatible with popular virtualization technologies including VMware and Citrix XenServer

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, 5Hz to 2000Hz (SSD)
- ▶ Operating humidity: 8% to 95% non-condensing
- ▶ MIL-STD-810G, MIL-STD-901D, and MIL-STD-167-1*
- ▶ MIL-STD-461 options available

MECHANICAL

- ▶ Height: 1U or 1.75 inches (44.45 mm)
- ▶ Width: 17 inches (432 mm)
- ▶ Depth: 17 inches (432 mm)
- ▶ Weight (typical*): 20 pounds (9.1 kg)

MODULAR MAINTAINABILITY

- ▶ Removable fans (6)
- ▶ 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

* 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.



PROCESSOR AND CPU		
PARAMETER	DESCRIPTION	
Processor	Up to two E5-2600 v3/v4 Series Intel® Xeon® processors with up to twenty cores per socket	
Memory	Up to 1 TB DDR4 ECC	
ON-BOARD EXPANSION		
PARAMETER	DESCRIPTION	
Expansion Slots (2)	One PCIe 3.0 16X full-height card and one PCIe 3.0 8X half-height card	
FRONT AND REAR PANEL I/O ACCESS		
I/O	QUANTITY	ACCESS
Serial port	1	Front panel
Status LEDs	7	Front panel
Gigabit Ethernet ports (RJ45)	2	Front panel
USB 3.0 ports	4	Front panel
IPMI 2.0 port	1	Front panel
Power connector	1 or 2	Front panel
Power switch	1	Front panel
VGA graphics	1	Front panel
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, 5Hz to 2000Hz (SSD)
MECHANICAL		
PARAMETER	DESCRIPTION	
Dimensions	Height: 1U or 1.75 inches (44.45 mm) Width: 17 inches (432 mm) Depth: 17 inches (432 mm)	
Weight (typical), Note 3	20 lbs (9.1 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	
MODULAR MAINTAINABILITY		
PARAMETER	DESCRIPTION	
Removable fans	6	
Weight (typical), Note 3	Single or redundant 110/220 VAC (50/60Hz, 400Hz) Single or redundant 18-36 VDC, 32 Amp Single or redundant 36-72 VDC	

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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