



FEATURES

MECHANICAL INTEGRITY

- ▶ Rack-optimized design for unique user requirements
- ▶ Designed for high reliability in harsh operating environments
- ▶ Specially coated aluminum for light weight and corrosion resistance
- ▶ Stainless steel reinforcement for strength and stiffness
- ▶ Modular design for easy upgrade and service
- ▶ Optional rack-mount slides
- ▶ Front-to-rear airflow direction
- ▶ Optional dust filter

MANAGEMENT AND OPERATING SYSTEM

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

ENVIRONMENTAL RESILIENCY

- ▶ Operating shock: 3 axis, 35G, 25ms
- ▶ Operating vibration: 3.0 Grms, 8 Hz to 2000 Hz
- ▶ Operating temperature: 0°C – Up to 50°C
- ▶ Operating Humidity: 8% to 90% non-condensing

MODULAR MAINTAINABILITY

- ▶ Hot swappable fans
- ▶ Power supply options
 - Single or redundant 110/220 VAC, 650 Watt (50/60Hz, 400Hz)
 - Single or redundant 18-36 VDC, 32 Amp
 - Single or redundant 36-72 VDC, 18 Amp
- ▶ Hot swappable disk drives

MILSPEC

- ▶ MIL-STD-810G (Shock and Vibration)

RES-11XR3

1U Single Socket 17 Inch Depth Rack Mountable Server

OVERVIEW

The Themis RES-11XR3 server is a one rack unit with 17 inch depth that combines the robust design of the Rugged Enterprise Server (RES) family with the latest 5500 and 5600 series Intel® Xeon® processors. Themis extensive thermal and kinetic management expertise makes these high performance systems suitable for mission-critical applications in demanding environments.

The RES-11XR3 is configured with one Intel Xeon 5500 or 5600 Series Processors and features an expansion slot, extensive high-speed I/O, and multiple storage options that provide users with configuration versatility and system expansion to meet current and future system requirements.

UNMATCHED FLEXIBILITY

The RES-11XR3 is configured with one 5500 or 5600 series Intel Xeon processors. Featuring a single expansion slot, extensive high-speed I/O, and multiple storage options, the RES-11XR3 system offer users versatile configuration and system expansion options.

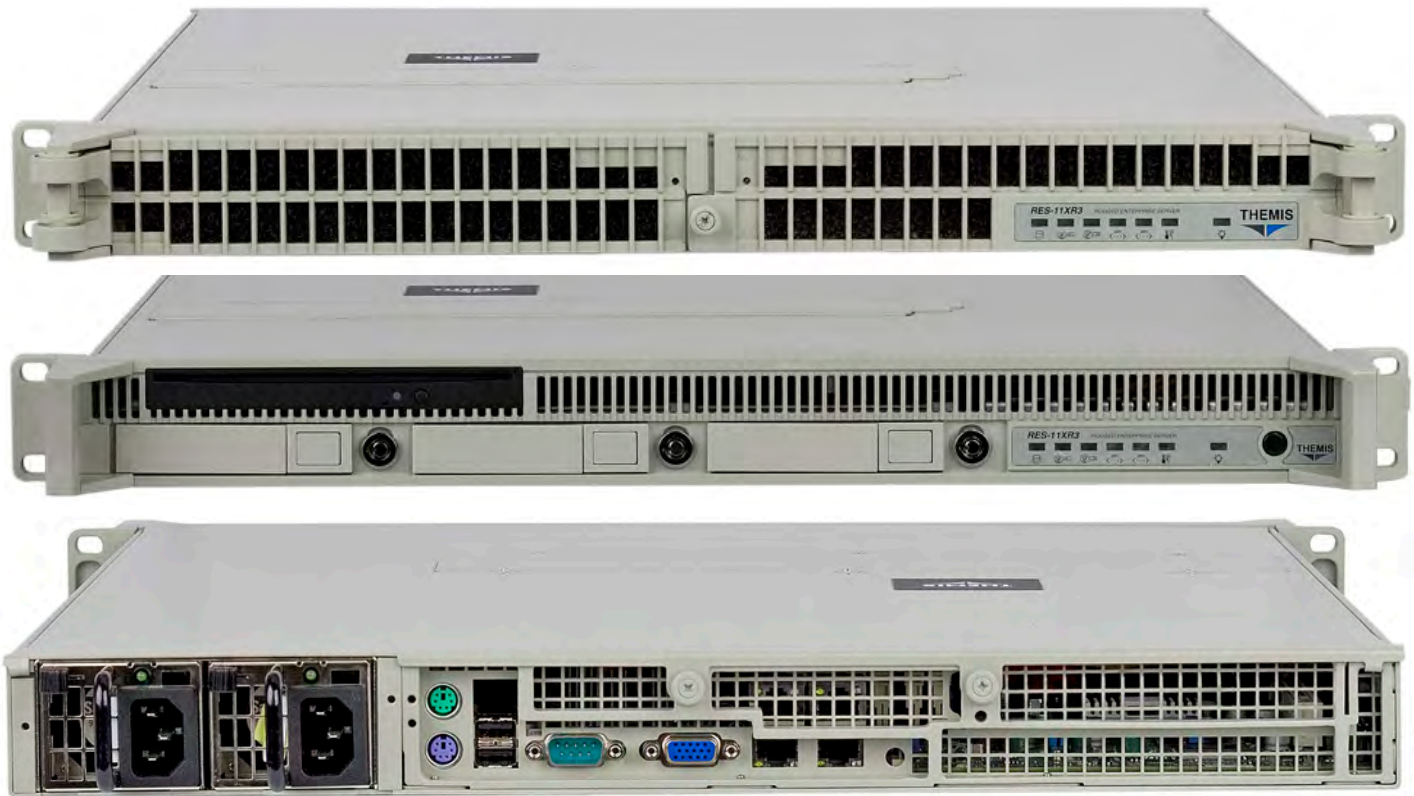


FIGURE 1: Themis RES-11XR3 Rack Mountable Server

The addition of commercially available, off-the-shelf networking cards, graphics, I/O, peripherals, and other value-added options provides users even greater flexibility to meet current and future system requirements.

Designed for operation use in harsh operating environments, Themis RES systems incorporate advanced

thermal and mechanical design features including: dual, redundant, hot swappable AC and DC power supply options. Aluminum die cast front and rear panels, and a 17-inch deep chassis constructed from strong, lightweight aluminum, improve system resistance to corrosion, and makes Themis systems attractive candidates for use in programs where Size, Weight, and Power (SWAP) are essential considerations.

TECHNICAL SPECIFICATIONS

Processor and CPU

PARAMETER	DESCRIPTION
Processor	One 5500 or 5600 Series Intel Xeon Processors

On-Board Expansion

PARAMETER	OPTIONS
Expansion slot	One (1) PCI-E 2.0 x16 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 3	Front panel
CD-RW/DVD-RW drive	1	Front panel
Status LEDs		Front panel
Gigabit Ethernet ports (RJ45)	Up to 4	Rear panel
USB 2.0 ports	Up to 4 standard	Rear panel
RS-232 serial ports (DB9)	1 or 2	Rear panel
PS/2 keyboard and mouse ports		Rear panel
Power connector	1 or 2	Rear panel
Power switch	1	Rear panel
VGA port (graphics)	1	Rear panel

Environmental

PARAMETER	NON-OPERATING	OPERATING
Temperature range	-40°C to 70°C	0°C to 50°C <i>Note 2</i>
Humidity (non-condensing)	5% to 95% non-condensing	8% to 90% non-condensing
Shock	3 axis, 35G, 25ms	3 axis, 35G, 25ms
Vibration (10-2000Hz)	3.0 Grms, 8 Hz to 2000 Hz	3.0 Grms, 8 Hz to 2000 Hz

Modular Maintainability

PARAMETER	DESCRIPTION
Hot swappable fans	
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 swappable disk drives	

Mechanical

PARAMETER	NON-OPERATING
Dimensions	Height: 1RU or 1.75 inches (44.45 mm) Width: 17.06 inches (433.3 mm) Depth: 17 inches (431.8 mm)
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
	Front to rear airflow

Notes

1. I/O options are configuration dependent.
2. Up to 60°C in specially configured systems.

THE RES-XR3 SERVER FAMILY

The Themis family of XR3 Rugged Enterprise Servers (RES) feature the latest Intel® four- and six-core Xeon® processors to provide reliability and superior server performance in the most demanding environments.

The Themis rugged server design keeps mission-critical applications available, improves life-cycle management, at a substantially lower total cost of ownership. When the environment is tough and your data is critical, rely on Themis to protect it and keep it available.

THEMIS VALUE

Themis provides systems manufacturers and end-users with the most modern, best-of-breed computing resources available. Package and performance scale from small form factor embedded servers to bladed servers.

Themis listens, understands, and works closely with our customers to optimize computing solutions that are easy to integrate, yet inexpensive to own and operate. Our solutions achieve the right balance between standard commercial technology and requirements for rugged environments, optimizing space, weight, and performance. For more information on Themis products, visit www.themis.com



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