Themis RES-XR5 2U

17" Deep, 2 drive, Front I/O Rugged Rack Mounted Server

mercury systems™

- **Up to E5-2600 v3/v4 Series Intel® Xeon® processors**
- **Up to 1TB DDR4 ECC Memory**
- **Up to 60TB of Storage and 6 PCIe 3.0 cards**
- **MIL-STD: 810G, 901D, 167-1, 461**

A part of the *EnterpriseSeries*™, Mercury's Themis RES-XR5 2U server embeds dual E5-2600 v3/v4 Series Intel® Xeon® processors for applications such as signal intelligence, cryptography, AI, surveillance, sensor fusion, analytics, communications, and audio/video processing.

Industry-Leading Performance

Featuring two E5-2600 v3/v4 Series Intel® Xeon® processors with up to twenty cores per socket, 1TB DDR4 ECC memory, up to 60TB of storage in two disk drives, and enhanced reliability features, the Themis RES-XR5 2U brings industry-leading technology to mission-critical military, industrial, and commercial applications.

Designed to meet systems engineering constraints at the edge, the system weighs only 25lbs and is 17" deep. A robust array of high speed I/O, storage options, and expansion choices allow users maximum flexibility for current and future system requirements. Servers can be mounted in standard commercial racks or in mobile rugged transit cases.

Enhanced Reliability

Mercury's Themis RES-XR5 incorporates advanced thermal and mechanical design features to provide superior resilience to shock, vibration, dust, sand, corrosion, and temperature extremes. The system meets or exceeds military environmental specifications and is proven to perform reliably under stress and in harsh environments. Dual redundant, hot swappable AC or DC power supplies provide high availability while lightweight aluminum chassis with stainless steel reinforcement provide corrosion resistance.

Uptime for Critical Workloads

Our EnterpriseSeries RES Servers are trusted worldwide for their high-performance, long life cycles, thermal resiliency, compatibility with industry standards, and SWaP optimization. With the latest Intel core-count processors and configurable I/O, RES servers are ideally suited to next-gen ground radar, mission, advanced simulation, command, control, and battle management processing mission critical applications.

Your Reliable Teammate

With over 30 years of technical expertise, Mercury Systems works closely with customers to design computing solutions that are easy to integrate, affordable, and reliable for years to come.

Mercury Systems is a leading commercial provider of secure sensor and safety-critical processing subsystems. Optimized for customer and mission success, Mercury's solutions power a wide variety of critical defense and intelligence programs.

ACQUIRE   DIGITIZE   PROCESS   STORAGE   EXPLOIT   DISSEMINATE

Technical Specifications

2 Intel® Xeon® E5-2600 v3/v4 Series CPUs with up to 20 cores per processor

Up to 1TB DDR4 ECC memory

Management and Operating System

Windows®, Linux®, VMWARE®, Citrix XenServer and other hypervisors

IPMI v2.0, Redfish option available

TPM 1.2 or 2.0 Support

Input/Output Versatility

Front Access

2 Removable, hot pluggable, 2.5" SATA/SAS3 drives

1 CD-RW/DVD-RW drive, Blu-Ray option

2 1GBaseT or 10GBaseT Ethernet ports (RJ45)

4 USB 3.0 (standard vertical I/O) or 2 standard horizontal I/O

1 IPMI 2.0

1 VGA graphic port

1 Power switch

Expansion and Modular Maintainability

6 PCIe 3.0 full-height, half-length cards

4 Removable fans

Additional Options

Shock pins

Front door filter

Slide rails

Power Supply Options

Single or redundant 100/240V VAC (50/60Hz, 400Hz)

Single or redundant 10-36 VDC, 32 Amps

Single or redundant 36-72 VDC, 18 Amps

MIL-STD 461

Environmental*

Operating

Temperature: 0°C to 50°C

  Extended temperature: -15°C to 65°C

  Humidity: 8% to 95% (non-condensing)

  Shock: 3 axis, 35g, 25ms

  Vibration: 4.76Grms, 10Hz to 2000 Hz (SSD)

Non-Operating:

  Temperature: -40°C to 70°C

  Humidity: 5% to 95% (non-condensing)

Mechanical

Height: 2U or 3.5" inches (88.9mm)

Width: 17 inches (432mm)

Depth: 17 inches (432mm)

Weight (Typical)*: 25 pounds (11.3kg)

19" rackmountable

* Mercury Systems designs all products to meet or exceed listed data sheet specifications. Some specifications including I/O profiles, weight, and thermal profiles are configuration dependent. Contact Mercury for information specific to your desired configuration requirements.

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