RES-XR6 2U

mercury systems®

14" Deep, 2 Drive, Front I/O Rugged Rack Mounted Server

- **Up to two Intel Xeon Scalable processors with 28 cores**
- **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 RES-XR6 2U Server employs the latest Intel® Xeon® Scalable processors to accelerate compute intensive workloads for applications such as signal intelligence, cryptography, AI, surveillance, sensor fusion, analytics, communications, and audio/video processing.

Accelerated Cloud Computing

Featuring up to **two Intel® Xeon® Scalable processors** with AVX512, **1TB DDR4 ECC memory**, **60TB of storage** in **two disk drives**, expansion slots, and enhanced reliability features, the RES-XR6 2U delivers superior workload-optimized performance and hardware-enhanced security for mission critical applications.

Designed for the Field

The system incorporates advanced thermal and mechanical design features to provide superior resilience to shock, vibration, dust, sand, and temperature extremes. **Dual redundant,** hot swappable AC or DC power supplies provide high availability while a specially designed dust cover and new **memory retention + vibration dampeners** offer users extra security on the move.

Space Optimized Scalability

Optimized for size, weight, and power (SWaP), the system weighs only **25lbs**, is **14" deep**, and meets military environmental specifications. A robust array of high speed I/O, storage options, enhanced security features, and expansion choices allow users maximum flexibility for current and future system requirements.

Proven Performance

Mercury's 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® Scalable Bronze, Silver, Gold, or Platinum CPUs
with up to 28 cores per processor
Up to 1TB memory with 8 DIMM slots

Management and Operating System

Windows®, Linux®, VMWARE® and other hypervisors
IPMI v2.0, Redfish option available
TPM 1.2 or 2.0 Support

Expansion and Modular Maintability

Up to 6 vertical PCIe 3.0 half-height cards
  2 PCIe 3.0x16, 2 PCIe 3.0x8, and 1 PCIe 3.0x4 (in x8 slot)
Or up to 2 horizontal PCIe 3.0 full-height cards
  1 PCIe 3.0x16 and 1 PCIe 3.0x8

Input/Output Versatility

Front Access
  2 Removable, Hot Pluggable, 2.5" SATA/SAS3, U.2 NVME option available
  1 CD-RW/DVD-RW Drive, Blu-Ray Option
  1 Power Switch
  2 1GBaseT Ethernet Ports (RJ45)
  3 USB (2 USB 2.0 + 1 USB 3.0)
  1 IPMI 2.0
  1 VGA Graphic Port

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)

Additional Options

Shock Pins
Slide Rails
Tamper-Evidence Features

Mechanical

Height: 2U or 3.5" inches (88.9mm)
Width: 17 inches (432mm)
Depth: 14 inches (355mm)
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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