# **RES-XR6 2U Quad**



23" Deep, 8 Drive, Rear I/O Rugged Rack Mounted Server

- Up to four Intel Xeon Scalable Processors with 28 cores
- Up to 6TB DDR4 ECC Memory
- Up to 240TB of Storage and 7 PCIe 3.0 cards
- MIL-STD: 810G, 901D, 167-1



A part of the *EnterpriseSeries*", Mercury's RES-XR6 2U Quad 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 four Intel<sup>®</sup> Xeon<sup>®</sup> Scalable processors with AVX512, 6TB DDR4 ECC memory, 240TB of storage in eight disk drives, expansion slots, and enhanced reliability features, the RES-XR6 2U Quad 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 power supplies provide high availability while a specially designed dust cover, new **memory retention + vibration dampeners**, and optional **tamper-proofing and tamper-evidence** features offer users extra security for operations on the move.

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.

# Space Optimized Scalability

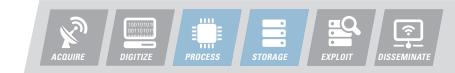
Optimized for size, weight, and power (SWaP), the system weighs only **30lbs**, is **23**" **deep**, and meets military environmental specifications. A robust array of high speed I/O, storage options, enhanced security features, and expansion choices allow users maximum flexibility for current and future 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.







## **Technical Specifications**

4 Intel<sup>®</sup> Xeon<sup>®</sup> Scalable Bronze, Silver, Gold, or Platinum CPUs with up to 28 cores per processor Up to 6TB memory with 64 DIMM slots

## **Management and Operating System**

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

## **Expansion and Modular Maintability**

Onboard M.2 SATA slot PCIe 3.0 card options (horizontal): Up to 7 full-height PCIe cards (mix of x4, x8, and x16) Or up to 5 full-height PCIe 3.0 x16 cards

## Input/Output Versatility

Front Access

8 Removable, Hot Pluggable, 2.5" SATA/SAS3 drives, U.2 NVME option available 1 Power Switch Rear Access 4 1GBaseT Ethernet Ports (RJ45) 2 USB 3.0 1 IPMI 2.0 1 VGA Graphic Port

## **Power Supply Options**

Dual Redundant 100/240V VAC (50/60Hz) Power Consumption: 1600W

## **Environmental\***

#### Operating

Temperature: 0°C to 55°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 Front Door Filter Slide Rails Tamper-Evidence Features

## Mechanical

Height: 2U or 3.5" inches (87.8mm) Width: 17 inches (438mm) Depth: 23 inches (583mm) Weight (Typical)\*: 30 pounds (13.6kg) 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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