

RES-XR6 3U

17" Deep, 3 Drive, Front I/O Rugged Rackmount Server

- Up to two Intel Xeon Scalable Processors with 28 cores
- Up to 2TB DDR4 ECC Memory
- Up to 90TB of Storage and 6 PCIe 3.0 cards
- MIL-STD: 810G, 901D, 167-1, 461



A part of the *EnterpriseSeries™*, Mercury's RES-XR6 3U 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, 2TB DDR4 ECC memory, 90TB of storage in three disk drives, expansion slots, and enhanced reliability features, the RES-XR6 3U 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, 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 29lbs, is 17" 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 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.



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 2TB memory with 16 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 Maintainability

Up to 6 full-height PCIe 3.0 cards
4 PCIe 3.0x16 (2 full length, 2 half length)
2 PCIe 3.0x8 full length
3 Removable Fans

Input/Output Versatility

Front Access

3 Removable, Hot Pluggable, 2.5" SATA/SAS3 drives, U.2 NVME option available
2 1GBaseT or 10GBaseT Ethernet Ports (RJ45)
2 USB 3.0 and USB 2.0
1 IPMI 2.0
1 VGA Graphic Port
1 Serial Port (DB9)
1 CD-RW/DVD-RW Drive, Blu-Ray Option
1 Power Switch

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: 3U or 5.25" inches (133.35mm)
Width: 17 inches (432mm)
Depth: 17 inches (432mm)
Weight (Typical)*: 29 pounds (13.1kg)
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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TRUSTED MISSION SOLUTIONS

47200 Bayside Parkway • Fremont, CA 94538 USA
(510) 252-0870 • Fax (510) 490-5529

TRUSTED MISSION SOLUTIONS INTERNATIONAL

5 rue Irène Joliot-Curie • Eybens 38320 France
+33 476 147786 • Fax + 33 476 147789