

RESmini XR6



8 Drive Rugged Small Form Factor Server

- One Intel Xeon Scalable Processor with up to 28 cores
- Up to 768GB DDR4 ECC Memory
- Up to 240TB of Storage
- MIL-STD: 810G, 901D, 167-1
- FAA Compliant UPS Power Case Option



A part of the *EnterpriseSeries™*, Mercury's RESmini XR6 Server embeds the newest Intel® Xeon® Scalable (Skylake) Processor with AVX512 to accelerate compute intensive workloads for mission critical expeditionary operations.

Data Center in a Briefcase

Featuring one Intel® Xeon® Scalable processor socket with up to 28 cores, up to 768GB memory, up to 240TB of storage in eight swappable drives, two PCIe expansion slots, and several enhanced reliability features, the XR6 RESmini delivers high performance in a briefcase size package.

Designed to be on the Move

Only 4" x 13.5" x 11", the 15lb RESmini minimizes size, weight, and power (SWaP) and meets military environmental specifications. The light-weight, portable chassis runs on either AC or DC power while 10Gbe ports, expansion slots, and multiple I/O offer operators maximum configuration versatility for current and future operations. For applications that require autonomous operation, the RESmini can be fully integrated within a FAA Carry-On Compliant UPS Power Case that provides over 100 minutes of autonomous run-time.

Operate in the Most Stringent Environments

The RESmini operates in 0°C to +50°C temperatures, with greater temperature extremes available for special configurations. Advanced thermal and mechanical design features provide superior resilience to shock, vibration, dust, sand, and temperature extremes. With the UPS Power Case, operators can fly with the RESmini in a commercial aircraft's overhead bin and operate in virtually any power environment.

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.

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

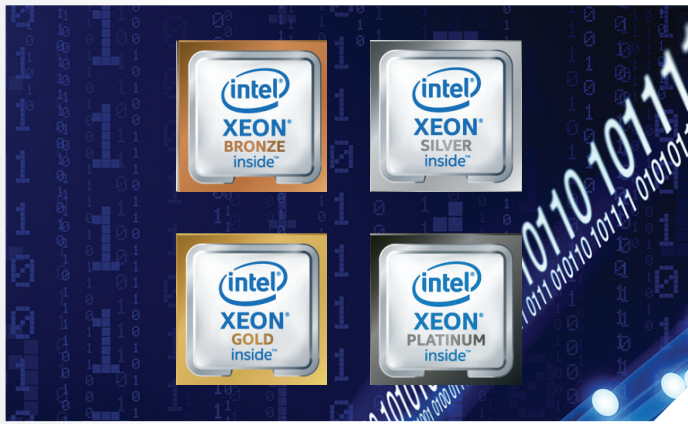


EXPLOIT



DISSEMINATE

Intel Xeon Scalable Processor with twenty-eight cores



Maximum Configuration Flexibility



Eight Removable, Hot Swappable, Front Access Drives



Portable, Reliability Enhanced, Small Form Factor Server





UPS Power Case Option

Autonomous Operation

For applications that require autonomous operation, the RESmini can be fully integrated within a FAA Carry-On Compliant UPS Power Case which provides for **over two hours** of independent operation without a power source. Designed by Acumentrics™ to be completely autonomous and flexible, the system automatically adjusts to the AC power on hand and can also run on a 12/28 volt DC power source commonly found on an aircraft, military vehicle, or light commercial vehicle.

Designed for the Field

The entire RESmini power case system weighs **47lbs** and features a **4"x11"x14" internal electronic bay** that can power the RESmini along with other small electronics. The Military standard waterproof casing is molded out of high-strength polypropylene copolymer resin that resists UV, solvent, corrosion, fungus, and impact damage. A patented trigger release latch system and an automatic ambient pressure equalization valve with a lockable lid further enhances security on the field.

Dense Embedded Power

Operating across a multitude of global voltages and frequencies as well as inside a vehicle—operators can fly with the RESmini in a commercial aircraft's overhead bin and operate it in virtually any power environment. The case can also be powered by standard military batteries and optional hot swappable battery packs that increase run time are available.

Built-in Safety

The system is designed to meet UN-DOT 38.3 for FAA compliance. A fail safe battery disconnect prevents battery drainage and ensures safety during transport. Wheels, retractable handles, and cushioned grips assure smooth transport for mission-critical operations on the move.

XR6 RESmini Technical Specifications

One Intel® Xeon® Scalable Bronze, Silver, Gold, or Platinum CPU with up to 28 cores
Up to 768GB DDR4 ECC

Management and Operating System

Windows®, Linux®, VMWARE® and other hypervisors
IPMI v2.0, Redfish option available

Expansion and Modular Maintainability

Up to 2 low profile, half-length PCIe 3.0 cards
4 Fixed Fans

Input/Output Versatility

Front Access

8 Removable, Hot Pluggable, 2.5" SATA/SAS3 drives

Side Access

- 1 Power Switch
- 2 10GBaseT Ethernet Ports (RJ45)
- 2 USB 3.0 and 2 USB 2.0
- 1 IPMI 2.0
- 1 VGA Graphic Port

Power Supply Options

Single 110/220V VAC (50/60Hz, 400Hz)
Single 18-36 VDC, 32 Amps
Single 9-18 VDC, 74 Amps

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 (10-2000Hz): 4.76Grms, 5Hz 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

Mechanical

Height: 4 inches (102mm)
Width: 13.5 inches (343mm)
Depth: 11 inches (273mm)
Weight (Typical)*: 15 pounds (6.8kg)

*Specifications including weight and thermal profiles are configuration dependent.

Optional Carry-On Power™ Portable UPS Case System

4" x 11" 14" Configurable Electronic Bay
Wheels and Retractable Handles

Autonomous Run Time

100 minutes with 85W operation load (typical)
35 minutes with 245W load (maximum stress test)
Additional Run Time available through battery packs

Input Power

Powered by both AC or DC Power
AC: 100-240VAC, 47-400Hz
DC: 10-30VDC

Output Power

DC: 350W of 24VDC Nominal (20-29VDC)
AC: Optional

Environmental

Operating Temperature: -20°C to 60°C
Non-Operating Temperature: -40°C to 70°C

Mechanical

Outer Dimensions: 9" x 14" x 22" (229mm x 356mm x 559mm)
Total System Weight: 47lbs (21.3kg)

Safety

UN-DOT 38.3 FAA Compliance



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6503.00E-0218-DS-RESMINIXR6

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