

# RES Trust XR6 1U *Built*SECURE™

*20" Deep, 4 Drive, Rear I/O Rugged Rackmount Server*

- **RoT enforced boot and configuration management**
- **Cyber-resilient BIOS, composable security features**
- **Dual Intel® Xeon® Gold 6238T Scalable processors up to 22 cores**
- **Field-proven, approved design**
- **Compliant with commercial and defense environmental resilience standards**
- **Designed, tested and manufactured in the U.S.**



## Technical Specifications

Dual Intel® Xeon® Scalable processors; SKU options:

Gold 6238T (22 core, 1.9 GHz, 125 W)

3 UPI links up to 10.4 GT/s

384 GB DDR4-2400 MHz or higher memory

Intel® Trusted Execution Technology (TXT) with integrated TPM 2.0

## Management and Operating System

BIOS: Mercury-specialized and supported

IPMI 2.0 management; optional remote management module

Red Hat® Enterprise Linux® v7 support

Secure hypervisor and Linux options

## *Built*SECURE™ Embedded Framework

Built-in composable security feature set options

## Expansion and Modular Maintainability

Up to 2 x16 PCIe cards, Gen 3.0, full-height, half-length

8 internal hotplug-capable SATA 3 ports (one consumed by optional optical drive)

SAS3, U.2 NVMe storage with RAID option available via PCIe

3 fixed fans (2-piece cover facilitates replacement in-situ)

## Power Supply Options

Single 550 W power supply 90-264 VAC (47/63 Hz)

## Environmental\*

### Operating

Temperature\*\*: 0°C to 50°C, configuration dependent per MIL-STD-810H, Methods 501.5 and 502.5

Altitude: 0 ft - 12,500 ft per MIL-STD-810H, Method 500.5, Procedure I

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

Shock: 3 axis, 20 g, 11 ms 1/2 sine pulse per MIL-STD-810H, Method 516.8, Procedure I

Vibration: Per MIL-STD-167-1A, Type 1

### Non-Operating

Temperature: -40°C to 70°C

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

Altitude: 0 ft - 30,000 ft per MIL-STD-810H, Method 500.5, Procedure I

Random Vibration: 4.67 Grms vertical, 4.5 Grms longitudinal/lateral 5 Hz to 2000 Hz per MIL-STD-810H, Method 514.8, Procedure I

Composite profile of category 4 (Composite Wheeled Vehicle) and Category 7 (C-17)

## Additional Options

Shock Pins

Front Door Filter

Slide Rails/Brackets / Shelf System

Cable Accessories

Tamper-Evidence Features

## Mechanical

Height: 1U or 1.75" (44.45 mm)

Width: 17.2" (436.9 mm)

Depth: 20" (508 mm)

Weight (Typical)\*: 26.5 lb (12 kg)

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.

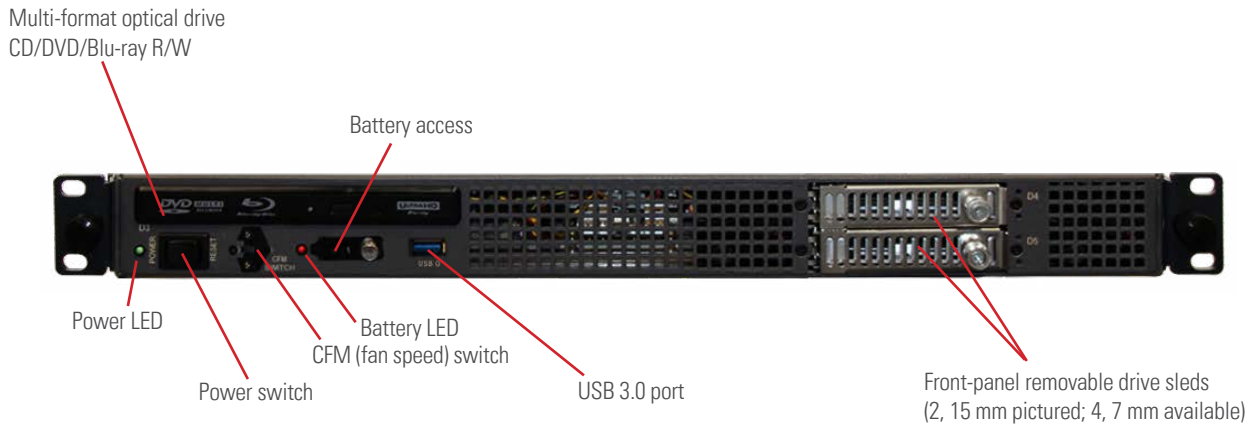
\*\* To reach temperatures above 40°C, additional measures may need to be implemented such as throttling or enhanced airflow.

## Custom Expertise

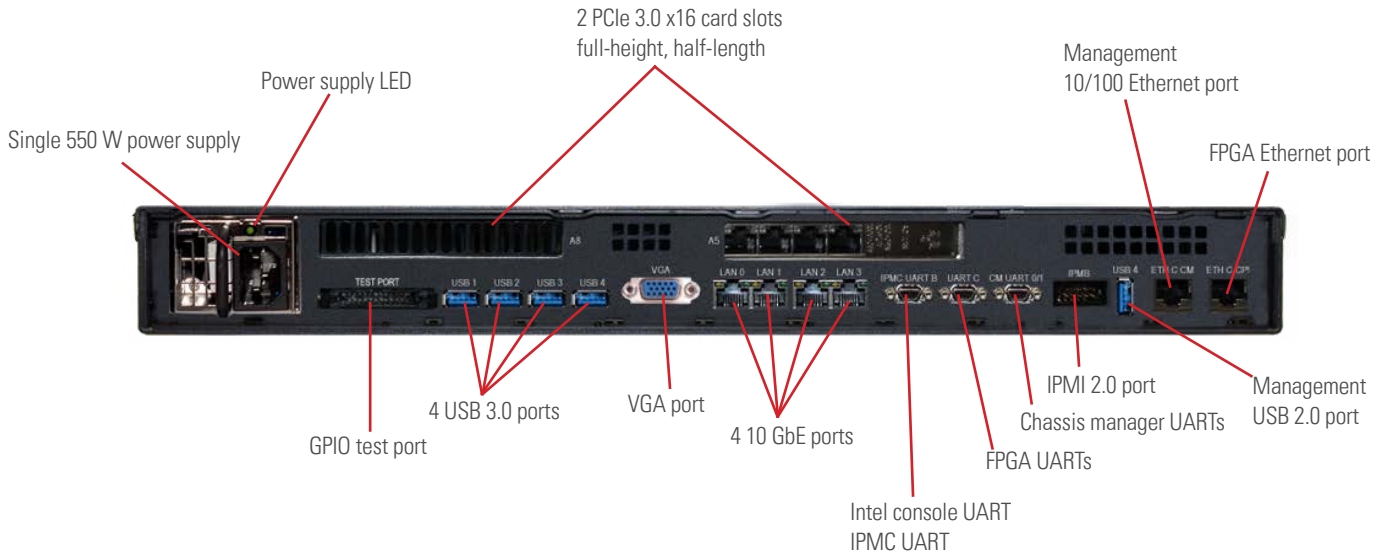
For tailor-made systems with specific security and environmental requirements, email [sales@mrchy.com](mailto:sales@mrchy.com)

## Input/Output Versatility

### Front View



### Rear View



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