

# RES XR7 Rugged Rack Servers

Low-latency, high-performance rugged servers

**Accelerate time to insight and increase application efficiency** with Mercury's RES XR7 rugged servers featuring the latest PCIe Gen4-ready 3rd Generation Intel® Xeon® Scalable processors, fast NVME storage, NVIDIA® A100 GPUs, flexible I/O and 200 GbE networking.

RES XR7 servers deliver higher per-core performance than previous generation servers, built-in AI acceleration and data encryption efficiency with Intel processors and Intel SGX®. Multiple NVIDIA A100 GPUs accelerate AI and HPC workloads while front-access, NVME Intel E1.L drives simplify maintenance, increase mobility and support larger data sets required for machine learning.

**Highlights**

- Workload-optimized with NVIDIA GPUs and Intel processors to maximize throughput
- New modular designs add more I/O and take less rack space
- Field-proven to deliver uncompromised performance anywhere

**Compared to previous generation servers, our newest RES XR7 servers deliver:**



**Featured Product** RESX07-1U22RA



RES XR7 1U saves rack space by optimizing dual processors, PCIe slots, and up to one NVIDIA A100 GPU in a compact 1U form-factor

## RES XR7 RUGGED RACK SERVERS

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### FEATURES

- 3rd Gen Intel Xeon Scalable Processors
- Double-wide NVIDIA GPUs
- Flexible I/O, up to 13 PCIe slots
- 200 GbE networking
- Front-access, hot-swappable drives
  - 7 mm or 15 mm 2.5" SSDs
  - E1.L EDSFF SSDs
- FIPS 140-2, NIAP-certified secure storage options
- Flexible redundant power (AC, DC)
- Cybersecure server designs

Designed, tested and manufactured in AS5553-compliant, AS9100D- and ISO9001-certified U.S. facilities

Certified to military and industrial environmental standards

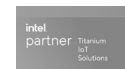
### EDGE APPLICATIONS

- Artificial Intelligence
- Radar Processing
- Signals Intelligence
- Sensor Fusion
- Big Data Analytics
- Image Processing

### ENGINEERED RUGGED

- Memory/PCIe retention and vibration dampeners
- Patented airflow baffle
- Advanced thermal and mechanical design
- Remote noise-level control
- Optional dust cover

Partnering with



## RES XR7 Product Line Up

### 1U



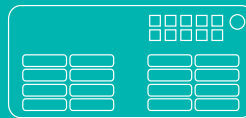
- 21"- 22" depths
- 1 NVIDIA A100 GPU
- 256 TB NVME Storage
- 200 GbE
- 5 customizable models

### 2U



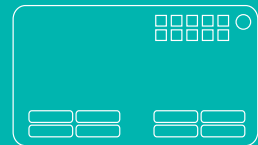
- 22" deep
- 3 NVIDIA A100 GPUs
- 512 TB NVME Storage
- 200 GbE
- 2 customizable models

### 3U



- 22" deep
- 4 NVIDIA A100 GPUs
- 512 TB SATA Storage
- NVIDIA NVLink
- 200 GbE
- 1 customizable model

### 4U



- 21" deep
- 10 NVIDIA A100 GPUs
- 256 TB NVME Storage
- NVIDIA NVLink
- 200 GbE
- 3 customizable models



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### Learn more

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