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:

- 36% decreased computing footprint
- 68% increased memory
- 2× faster bandwidth throughput
- 10× faster data storage and transfer
- 28% increased core count
- 2× the GPU capacity
- 2× faster networking

Innovation That Matters* mrcy.com
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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

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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