kontron

Rugged Rackmount Server for Your Critical Defense Missions



Endurance. Performance. Reliability.

The **COBALTTM RR-2500** delivers uncompromising compute power at the tactical edge, driving AI for rapid decision-making, and secure data processing in the most demanding military environments. Built to meet rugged MIL-rated standards, it thrives where conventional servers fail—maintaining mission readiness through shock, vibration, extreme temperatures, and unpredictable conditions. With scalability and mission-focused security at its core, the RR-2500 ensures reliable, high-throughput data processing and secure communications on the battlefield, at sea, or within mobile command units.

Why Choose Kontron's COBALT™ RR-2500 for Defense?

- Military-Grade System with a Compact Design Short-depth (20") 2U chassis ideal for vehicle, vessel, or command center deployment.
- Ruggedized Solution Designed to meet MIL-STD-810 and NEBS Level 3 for extreme environments.
- ➤ High Performance, Flexible Compute

 Supports 4th/5th Generation Intel® Xeon® SP and AMD EPYC 9004/9005 processors. Plus, expandable architecture with up to 7x PCIe Gen5 slots for GPUs or accelerator cards.
- Modular, Hot-Swap Storage

 Holds 6x hot-swap, tool-less U.2/U.3 NVMe
 SSDs—designed for fast, field-replaceable
 storage and high data throughput.

- Mission-Secure Computing Foundations
 Built on Kontron's COBALT platform, utilizing ECC
 memory, TPM 2.0, intrusion detection and rapid
 shutdown mechanisms—ideal for combating data
 corruption and ensuring secure operations.
- ➤ C4ISR & Network Interoperability

 Designed for seamless compatibility enabling
 C4ISR infrastructure.
- > Secure, Lifecycle-Aligned Supply Chain Long product availability (7-10 years) and configuration stability assure defense programs sustained readiness and cost-effective certification.

Designed to meet:

- MIL-STD-810 (ruggedization)
- NEBS Level 3 / ETSI (reliability)
- ITAR Registered for US
- ITAR-free worldwide
- ISO9001 / AS9100
- ETSI



1. C2/C4 Command Center Data Collection

Rugged servers host mission applications that collect battlefield data—from sensors, drones, satellites, and soldiers in the field—into a real-time operational picture. Designed for quiet operation as well as durability, they ensure commanders can make rapid, informed decisions even in harsh environments like forward operating bases or mobile command centers.

2. Intelligence, Surveillance & Reconnaissance (ISR)

Servers process high-volume data streams — radar, video, thermal imaging, signals intelligence — directly at the edge. Ruggedization ensures they can survive vibrations, extreme temperatures, and dust while still delivering reliable data to analysts and operators.

3. Cybersecurity & Secure Communications

Defense missions rely on secure, always-available communication. Rugged servers act as hardened, quiet nodes for encrypted networks, authentication services, and intrusion monitoring, ensuring trusted information exchange in contested environments.

4. AI-Enabled Decision Support

Rugged servers provide the compute power for Al algorithms that detect threats, prioritize alerts, or recommend optimal resource deployment—all at the tactical edge, without waiting on remote data centers.

5. Simulation & Mission Readiness

In deployed scenarios, servers run training simulations, mission rehearsal software, or digital twins of equipment, enabling troops to practice, adapt, and respond quickly to evolving mission needs.



Your Contact

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