DEDICATED COMPUTING

POWERING THE WORLD'S MOST IMPORTANT DEVICES

Defense Computing Solutions

Dedicated Computing designs and delivers mission-ready computing platforms for defense programs operating at the edge, in the field and in contested environments.

As modern defense programs move intelligence closer to the mission, compute must support faster decisions, greater autonomy, lower latency and reliable operation in harsh conditions. Dedicated Computing partners with primes, OEMs and system integrators to reduce integration risk, accelerate deployment and support long-lifecycle programs across drones, wearable systems and rugged deployed applications.

Our solutions combine high-performance CPUs and GPUs, edge AI capabilities, ruggedized system design and long-term lifecycle support to help power mission-critical defense systems from prototype through field deployment.

Drones

Edge AI Compute for the New Era of Low-Cost Autonomous Systems

Dedicated Computing supports affordable drone and autonomous systems programs with compact, integration-ready compute platforms designed for real-time perception, navigation, targeting support, sensor processing and onboard AI inference. By processing data closer to the sensor, our systems help reduce reliance on cloud or reach-back connectivity while enabling faster decisions in bandwidth-constrained and contested environments.

For primes and system integrators, Dedicated Computing provides the engineering depth, hardware integration and lifecycle management needed to move from demonstration to deployment with reduced program risk.

Wearables

AI-Enabled Compute for Deployed Service Members

Dedicated Computing supports the development of wearable and soldier-carried systems with edge computing platforms that can process sensor data, support AI-enabled analytics and integrate with broader command, medical or training architectures.

These applications require more than raw processing power. They demand low-latency analysis, efficient data handling, secure operation and systems that can be integrated into the wider mission environment. Dedicated Computing helps OEMs and system integrators bring these capabilities closer to the service member while maintaining reliability, manageability and long-term support.

Toll-Free: **877.333.4848**
Phone: **262.951.7200**

E: **inquiry@dedicatedcomputing.com**
W: **www.dedicatedcoputing.com**

Rugged Systems

Mission-Ready Compute for Harsh and Deployed Environments

Many defense and aerospace applications require high-performance compute in environments where traditional enterprise systems cannot operate. Dedicated Computing designs rugged and portable systems that support mission AI, ISR, training, tactical edge, command systems, deployed medical and portable infrastructure applications.

Our rugged compute platforms help bring processing closer to the point of need, supporting faster decision-making while reducing dependence on fixed infrastructure or constant connectivity.

Key application areas include:

- Mission AI, ISR, C5ISR & C4ISR
- Training & Simulation
- Tactical Edge Compute
- C4I & Command Post Systems
- Defense Medical & Telemedicine
- Export & Partner-Nation Modernization
- Rugged & Portable Data Centers

Why Dedicated Computing

Dedicated Computing helps defense and aerospace customers move advanced computing from concept to deployment with confidence.

- Proven experience supporting mission-critical defense programs
- Rugged, edge-optimized platforms for harsh environments
- High-performance CPU and GPU integration
- Edge AI and real-time data processing expertise
- Integration-ready designs that reduce program risk
- Long lifecycle support aligned with defense procurement timelines
- Flexible architectures that scale from prototype to deployment

Powering Defense Innovation at the Edge

From low-cost drone programs to AI-enabled wearables and rugged deployed systems, Dedicated Computing provides the compute foundation for modern defense and aerospace applications.

We help primes, OEMs and system integrators deliver reliable, scalable and mission-ready systems where performance, resilience and lifecycle support matter most.

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