Decoupling Government Missions from Cloud Dependency

The Edge Can No Longer Wait for the Cloud

In government and defense missions, the edge is not a clean, controlled environment. Field teams encounter two constant realities:

- Communications are unreliable or nonexistent.
- Data needs to be processed immediately, not sent back to a distant data center.

Most so-called "edge solutions" were not built for that. They rely on cloud connectivity for orchestration, eat power like a data center, and require expert-level administration just to stay running.

A 'Better Together' Approach

Norseman Defense Technologies and Rancher Government Solutions (RGS) have collaborated to build Odin's Edge—AI at the edge. A fully autonomous, enterprise-grade edge platform that does not need a tether to the cloud to deliver results. Combining Norseman's expertise in tactical, resilient hardware with RGS's hardened Kubernetes-native infrastructure, Odin's Edge brings real compute, real autonomy, and real security to the tactical edge.

AI & ML at the tactical edge

Process drone footage, perform geospatial mapping, run advanced encryption, and deploy AI assistants, all without reaching back to a data center. What was impossible just two years ago is now standard.

Truly disconnected operations

Unlike competitors who require cloud connectivity for management, Odin's Edge operates independently with zero cloud dependencies. When communications go dark, your mission doesn't.

Cloud-native platform in a box

Agencies spend millions on custom Kubernetes solutions that underdeliver. Odin's Edge is designed for rough field operations, including operation on unstable ("dirty") power sources, with optional battery backup.

Hardware agnostic, mission flexible

From shoe-box-sized units a child could carry to more robust systems for intense workloads, Odin's Edge adapts to your parameters without locking you into specific hardware vendors.

Backed by Experts

Norseman's tiered support model deploys expert assistance to mission teams in the field, with escalation paths to OEM specialists and solution architects.

Battle-Tested for Real-World Missions

Military & Defense Operations

- Forward-deployed data processing for remote missions
- Real-time drone video analysis and threat detection
- Vehicle fleet management in contested environments
- Predictive maintenance for critical equipment

Civilian Applications

- Smart surveillance systems for disaster zones
- Field hospital patient monitoring in real-time
- First responder coordination without reliable infrastructure
- Autonomous vehicle support in challenging environments

Mission-First Computing When Connection Is Not an Option

Odin's Edge was engineered to answer a simple truth: the tactical edge will not wait for your infrastructure to catch up. Where other vendors claim to offer "edge" solutions that still demand cloud connectivity, Odin's Edge runs orchestration and lifecycle management directly on the platform with no uplink required.

This joint solution combines hardware engineered for battlefields with software designed for autonomy. The result is a platform that delivers true data center capability that doesn't flinch when your mission takes you beyond the reach of traditional infrastructure.

Ruggedized for the Mission

- Precision-milled chassis from aircraft-grade aluminum with proprietary component stabilization
- MIL-STD-810G and NEBS-certified ruggedized enclosures
- Designed for extreme temperatures, shock, vibration, and dirty power environments

Performance Without Compromise

- "Sierra Forest" CPUs for power-efficient, high-performance compute
- GPUs for local AI/ML processing without cloud connectivity
- 400GB interconnects between nodes to support high-volume, data-intensive workloads

Reliable Connectivity in Disconnected Environments

- 10/1GB Ethernet with redundant Kubernetes control plane
- Witness node architecture maintains system integrity even if primary nodes fail

Software Built for Independence

- Air-gapped hyperconverged infrastructure (HCI) designed to operate with no external dependencies
- Multi-Cluster Management that orchestrates containerized applications across the cluster for simplified workload management
- Zero Trust container security authentication that verifies every access request regardless of source to maintain a strict security posture
- GitOps Automation: Applies infrastructure-as-code (IaC) principles to automate deployments
- OCI Registry and Git Server: Locally hosts container images and code repositories for continuous application deployment

Odin's Edge thrives where conventional systems fail because it was engineered from the ground up for independence, not retrofitted for it. When challenges arise, you have direct access to the architects behind the technology.

Advanced Capabilities That Don't Need Cloud Permission

Generative AI Platform

Run AI models locally without cloud connectivity for real-time language processing, image analysis, and decision support.

Quantum-Proof Security

Protect data with Fully Homomorphic Encryption (FHE) that remains secure even against quantum threats.

Security Analytics & SIEM

Deploy complete Security Information and Event Management (SIEM) locally for real-time data retrieval and visualization.

Low-code/No-Code Platform

Build, adapt, and deploy applications at the edge without specialized programming expertise.

Your missions operate beyond the cloud's reach. Now, your computing can too.

Ready to deploy stronger, smarter edge operations? Contact us at: info@ranchergovernment.com.