Tactical Edge Computing for Disconnected Operations

Design and deployment of ruggedized edge computing nodes that deliver cloud-native capabilities in disconnected, denied, intermittent, and limited (DDIL) environments.

PRACTICE

Cloud and Edge

CLIENT PROFILE

DoD or IC unit requiring local compute, storage, and AI inferencing at forward or austere locations with intermittent or denied connectivity

Challenge

- Mission workloads require real-time processing but connectivity to central data centers is unreliable
- Commercially available IT equipment is not rated for harsh field conditions
- Edge sites lack dedicated IT staff for system administration and troubleshooting

Approach

- Select MIL-STD-810G rated hardware with appropriate SWaP (size, weight, and power) characteristics
- Containerize mission applications for lightweight, portable deployment at the edge
- Implement autonomous management and self-healing capabilities for zero-touch operations
- Design store-and-forward data synchronization for intermittent connectivity windows

Typical Outcomes

- Real-time data processing and AI inferencing at the tactical edge without cloud dependency
- Reduced logistics footprint through consolidated, ruggedized compute platforms
- Autonomous operations capability enabling deployment by non-IT personnel

Procurement Paths

- NASA SEWP V and SEWP VI for edge computing hardware and platforms
- ITES-4H for Army edge infrastructure
- GSA MAS for integration and field deployment services

Compare vehicles and ordering steps on **How to buy**.

Partner Technology Examples

- Hewlett Packard Enterprise
- Dell Technologies
- NVIDIA
- Spectro Cloud

FEATURED PRODUCT

Odin's Edge: the operated site

Norseman runs a secure cloud at your site. You run the mission.

Odin's Edge is Norseman's managed edge platform. It puts compute, storage and network at the site under one controlled architecture, on the hardware you already run, integrated and tested in our lab before it ships. Applications arrive hardened, with the configuration baselines and test reports your security team needs. Norseman operates it around the clock or hands it to your team with the same console. Buy it as one line on your vehicle or as a per site subscription.

The same site runs the AI when the mission is ready.

This is a representative use case. To request a briefing or a quote, contact Norseman Defense Technologies at 410.579.8600 or sales@norseman.com.