IT Solutions for Disconnected and Austere Environments

Design and deployment of self-contained IT systems for austere environments, integrating ruggedized hardware, autonomous management, power-efficient architectures, and air-gapped operations to support missions where traditional IT infrastructure cannot operate.

PRACTICE

Cloud and Edge

CLIENT PROFILE

Organization operating in environments with no reliable network connectivity, limited power, extreme temperatures, or other austere conditions, requiring self-sustaining IT capabilities

Challenge

- No reliable network connectivity for cloud-based services or remote management
- Extreme environmental conditions (temperature, humidity, dust, vibration) that exceed commercial hardware ratings
- Limited or unreliable power requiring energy-efficient and power-resilient designs

Approach

- Select MIL-STD-810G and NEBS-certified hardware rated for target environmental conditions
- Design power-optimized architecture with battery backup and graceful degradation
- Implement fully autonomous operations with local management, monitoring, and self-healing
- Build air-gapped update procedures for secure patching and content delivery

Typical Outcomes

- Reliable IT operations in environments where commercial equipment cannot survive
- Zero-dependency on external connectivity for mission-critical functions
- Autonomous system management reducing the need for on-site IT expertise

Procurement Paths

- NASA SEWP V and SEWP VI for ruggedized and specialized IT hardware
- ITES-4H for Army tactical and austere environment equipment
- GSA MAS for integration and field engineering services

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

Partner Technology Examples

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

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.

Frequently Asked Questions

What is Odin's Edge and how does it work in disconnected environments?

Odin's Edge is Norseman's managed edge platform. Compute, storage, network and the applications on them run at the site without an internet or enterprise network connection. When connectivity is available, the platform synchronizes with enterprise systems.

Can Odin's Edge run in a classified environment?

Yes. Odin's Edge supports air gapped deployments, and cleared Norseman personnel are available to support classified deployments with the configuration baselines and test reports an accreditor needs.

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.