

## Remote Oil & Gas Operations

Offshore platforms and isolated drilling sites often operate in network-challenged areas where traditional connectivity is limited. 5G at the edge ensures high-speed data flow between sensors, personnel, and control systems, supporting real-time safety, monitoring, and maintenance operations.

## **Key Benefits**

- > Real-Time Monitoring: Continuously tracks pressure, temperature, and flow metrics to avoid failures.
- Improved Worker Safety: Wearables and smart cameras detect environmental hazards and worker health risks.
- > Reduced Downtime: Predictive analytics powered by edge AI identify issues before they cause costly shutdowns.
- > Lower Operational Costs: Remote diagnostics reduce the need for physical inspections and helicopter trips.
- Faster Emergency Response: Edge data provides real-time alerts and system shutdowns when hazardous events occur.
- > Better Compliance and Reporting: On-site data collection ensures accurate and timely regulatory documentation.



8172 Lark Brown Rd Suite 201, Elkridge, MD, 21075 Phone : (410) 579-8600 |Email : sales@norseman.com

## Intro to Edge Computing

In today's fast-evolving landscape, the need for real-time data processing and actionable insights at the edge has become a critical priority for mission-critical operations. Odin's Edge, powered by Norseman Defense Technologies, is designed to address these demands by delivering scalable, high-performance computing solutions in ruggedized, portable environments. This solution brings unparalleled flexibility, enabling data-driven decisions at the tactical edge while ensuring robust security and seamless scalability.

## **Core Capabilities:**

- > Ruggedized Edge Infrastructure: Withstands harsh weather, vibration, and high temperatures typical in oil & gas sites.
- > Private 5G Network Deployment: Ensures secure, high-speed communication even in isolated locations.
- Integration with SCADA Systems: Enables seamless data acquisition, control, and system-wide visibility.
- > Edge AI and ML Processing: Analyzes anomaly patterns locally to detect early signs of equipment wear or failure.
- > Drone and Robot Support: Enables autonomous inspection and maintenance in hazardous areas.
- Satellite and Microwave Backhaul Integration: Extends connectivity where terrestrial links are unavailable.