



Edge AI and High-Performance Computing in Remote Areas

NVIDIA Inception Member: Armada

Industry Challenges

Operating in remote locations while ensuring reliable connectivity and utilization of compute infrastructure is a significant challenge. This particularly affects the public sector—including federal, state, and local agencies—and heavy industries—including oil and gas, manufacturing, mining, shipping, and telecommunications.

Solution and Impact

Armada's three products—Connect, Edge, and OpsAI—run on a common Commander platform, designed to address common heavy industry challenges in the world's most remote locations. This includes integrating ruggedized servers accelerated by NVIDIA to ensure connectivity, advanced compute, and real-world edge AI capabilities.

Connect is an enterprise operating system to monitor, manage, and optimize connectivity and IoT device ecosystems, such as satellite terminals, SD-WAN devices, drones, sensors, and autonomous vehicles at scale. Connect ensures connectivity and management for remote IoT ecosystems through its partnerships with Starlink from SpaceX and other satellite and telco providers.

Edge includes a ruggedized mobile data center, called Galleon, that delivers resilient data infrastructure for operations in remote edge locations. Galleon can also serve as a node in a resilient and redundant data infrastructure.

OpsAI includes purpose-built AI applications for safety, automation, and efficiency at the edge.

Armada edge data centers are accelerated by NVIDIA H100 and A100 Tensor Core GPUs and used by leading companies to run high-performance computing applications for industrial operations in remote sites.

Armada is working with its robust partner network to deploy AI apps from partners at the edge on the Armada Commander platform and Edge Marketplace. This includes Skydio, a provider of autonomous drones for public safety, energy, and other industries, and additional ecosystem members in computer vision for anomaly detection and predictive maintenance of industrial equipment.

Ready to Get Started?

To learn more about Armada, visit their [website](#).

NVIDIA Inception is a free program designed to help startups accelerate innovation and growth. Members get access to developer resources and training, exclusive pricing on NVIDIA hardware and software, and exposure to the venture capital community.



Image courtesy of Armada.



Summary

Armada's platform combines connectivity, compute, and real-world AI to solve your toughest challenges right where your data is generated.

Solution Categories

- > Computer vision/video analytics
- > Edge computing

NVIDIA Solutions

- > NVIDIA H100 Tensor Core GPUs
- > NVIDIA A100 Tensor Core GPUs
- > NVIDIA A30 Tensor Core GPUs
- > NVIDIA CUDA®
- > NVIDIA Metropolis

