



TACTICAL ATMOS-2 GPU EDGE NODE

Rugged ATMOS-2 GPU

The NEW **Rugged ATMOS-2 GPU** is a high-performance tactical edge node featuring 64, 96, or 144 CPU cores and an integrated NVIDIA GPU for real-time processing and AI workloads. It operates independently or connects to multiple enclaves using the ATMOS Chassis Rail System for scalable deployment.

Each node includes a built-in UPS battery to maintain uninterrupted command and control during transport or power loss. Designed for harsh environments, the ATMOS-2 GPU offers rugged, mission-ready computing for defense, aerospace, and edge operations.

- Onboard UPS battery backup
- Tested to meet military standards
- Built in the USA

Featured Specifications

- Up to 144x Physical Xeon® Cores
- Up to 2TB ECC RAM
- 4x NVME Hot-Swap SSD Drives
- NVIDIA L4 Tensor Core GPU Card
- NVIDIA Blackwell 4000 (Coming Soon)
- Onboard UPS Battery Backup
- Rugged MIL-Spec Chassis
- Native 24-28VDC Power Input
- Optional AC-DC External Power Supply
- Under 500W Total Power Draw
- Stackable Chassis Rail System





Technical Specifications

Dimensions

Height: 3.5 inches, Width: 8.5 inches, Depth: 14.75 inches
Weight: 13 lbs

CPU

64x, 96x or 144x Intel® Xeon® Cores

GPU

NVIDIA L4 Tensor Core GPU Card
NVIDIA Blackwell 4000 (Coming Soon)

RAM

Up to 2TB per node

Security

TPM 2.0 Module

Network

2x 10G Onboard NIC Ports

Power

Onboard UPS Battery Backup
Under 500W Total Power Draw

Power Supply

Native 24-28VDC Power Input
Optional AC-DC External Power Supply

Storage

4x NVME Hot-Swap SSD Drives

Chassis

Stackable Rugged MIL-Spec Chassis

Environmental Specifications

Operational Temperature

MIL-STD-810F, Method 501.5, Procedures I/II: -15°C to +55°C

Storage Temperature

MIL-STD-810F, Method 501.5, Procedures I/II: -15°C to +55°C

Humidity

MIL-STD-810F, Method 507.4: 95% RH, 48 hours at 40 – 65°C

Altitude

MIL-STD-810F, Method 500.4: 12,500 ft operation; 40,000 ft transport

Vibration

MIL-STD-810G, Method 514.6: 4.43 GRMS, 5-20000Hz, 60 min/axis

Shock

MIL-STD-810G, Method 516.6: 20g, 11ms functional; 40g, 11ms crash hazard

EMC

MIL-STD-461F: CE & RE emissions

Work With Core Systems Today

Core Systems designs and builds rugged servers, displays, mission computers, and integrated cabinet solutions for military and industrial applications. From our 85,000 sq. ft. San Diego facility, we deliver cutting-edge, durable computing solutions for mission-critical needs.

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