



TACTICAL ATMOS EDGE NODE

Rugged ATMOS-GPU

The Rugged ATMOS-GPU node is a compact, mission-scalable solution designed for critical mobile operations, reducing the space needed for computing by over 10x. Each ATMOS-GPU node features an NVIDIA L4 Tensor Core GPU card, 32 physical Intel® Xeon® Gold cores, up to 2TB of RAM and comes with onboard UPS battery backup for uninterrupted C2 on-the-move.

The integrated chassis rail system secures the nodes together, eliminating the need for an outer transit case and enables the stacking of unlimited independent ATMOS nodes, creating a powerful, portable data center. The ATMOS server features the smallest form factor with the highest CPU core count in the industry.

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

Key Features

- 32x Physical Xeon® Gold Scalable Cores
- Up to 2TB ECC RAM
- 4x NVME Hot-Swap SSD Drives
- NVIDIA L4 Tensor Core GPU Card
- Onboard UPS Battery Backup
- Rugged MIL-Spec Chassis
- Native 24-28VDC Power Input
- Optional AC-DC External Power Supply
- Stackable Chassis Rail System





Technical Specifications

Dimensions

Height: 3.5 inches, Width: 8.5 inches, Depth: 14.75 inches

CPU

32 Intel Xeon Total Cores

Network

NVIDIA L4 Tensor Core GPU Card

RAM

Up to 2TB per node

Security

TPM 2.0 Module

Network

2x 10G Onboard NIC Ports

Power

Onboard UPS Battery Backup

Power Supply

Native 24-28VDC Power Input

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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