

Compute **DOMINANCE** At The Edge



Advanced **T**actical **M**odular **O**pen **S**ystem

The Rugged **ATMOS Triple Node**

The **Rugged ATMOS Triple Node** is a compact, mission-scalable system, engineered to streamline **critical mobile operations** by **reducing computing space by over 10x**. Each ATMOS node is equipped with 32 physical Intel® Xeon® Gold cores and an onboard UPS battery backup, ensuring uninterrupted command and control (C2) on the move. With the triple stack, this provides you with 96 total cores.

From air deployment to forward operations, **ATMOS provides scalable, modular, rugged computing power** using advanced xeon processors for any military operation at the edge. The ATMOS Triple Node was designed with the mindset to be software agnostic allowing for the end user to define its use case.

- SWaP-C Optimized Modular Design
- Military-Tested for Extreme Conditions
- UN38.3 certified batteries for Aircraft
- Rugged, stackable, and Chassis-less
- AI Real-Time Data Processing Capable via GPU
- Latest Advanced Xeon Processors

Military Specifications Met

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: -55°C to +85°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, 5-2000Hz, 60 min/axis

Shock

Shock: 20g functional, 40g crash hazard (MIL-STD-810G)





Technical Specifications

Dimensions

Height: 10.5 inches, Width: 8.5 inches, Depth: 14.75 inches
Weight: 39 lbs

CPU

96 Intel Xeon Gold Cores

RAM

Up to 6TB DDR4 ECG

GPU Support

NVIDIA L4 Tensor Core GPU Card

Security

TPM 2.0 Module

Network

6x 10GB NIC Ports
18x 1GB Independent Controller NIC Ports (Add-in)

Storage

6x NVME Hot-Swap SSD Drives

Chassis

Stackable Rugged MIL-Spec Chassis

Power

28VDC Power Input

EXT Power

AC/DC Power Brick

UPS

Integrated Battery Backup

Enviromental 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: -55°C to +85°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, 5-2000Hz, 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.

Core Systems

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