



TACTICAL ATMOS-2 EDGE NODE

Rugged ATMOS-2 Node

The NEW **Rugged ATMOS-2 Node** is a tactical edge server with up to 144 CPU cores, offering the highest core count in the industry. Designed for harsh environments, it handles AI, real-time processing, and secure communications. It operates independently or connects to multiple enclaves via the ATMOS Chassis Rail System.

Each node includes a built-in UPS battery to maintain uninterrupted command and control (C2) during movement or power shifts. Rugged and mission-ready, the ATMOS-2 Node is built for defense, aerospace, and demanding edge computing applications.

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

Key Features

- 64, 96 or 144 Physical Xeon® Cores
- Up to 2TB ECC RAM
- 4x NVME Hot-Swap SSD Drives
- 4-Port 10GB NIC card
- 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

RAM

Up to 2TB per node

Security

TPM 2.0 Module

Network

1x 4-Port 10G NIC Card
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

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