



## TACTICAL ATMOS2 EDGE NODE

### Rugged ATMOS2 Node

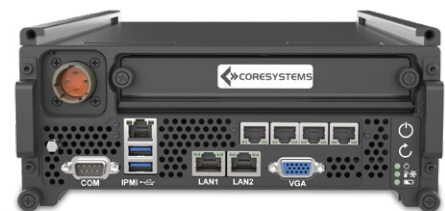
The NEW **Rugged ATMOS2 Node** is a tactical edge server with up to 144 CPU cores, offering the highest core count in the industry. Designed for harsh environments, it handles AI, real-time processing, and secure communications. It operates independently or connects to multiple enclaves via the ATMOS 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 ATMOS2 Node is built for defense, aerospace, and demanding edge computing applications.

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

### Featured Specifications

- 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

## 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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