CORE SYSTEMS

TACTICAL ATMOS EDGE NODE

Rugged ATMOS-Compute

The Rugged ATMOS-Compute node is a compact, mission-scalable solution designed for critical mobile operations, reducing the space needed for computing by over 10x. Each ATMOS-Compute node features 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
- 4-Port 1GB NIC card
- Onboard UPS Battery Backup
- Rugged MIL-Spec Chassis
- Native 24-28VDC Power Input
- Optional AC-DC External Power Supply
- Stackable Chassis Rail System

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RUGGED ATMOS-COMPUTE

Technical Specifications

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

CPU
32 Intel Xeon Total Cores

RAM
Up to 2TB per node

Security
TPM 2.0 Module

Network
1× 4-Port 10G NIC Card
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

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: -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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