

Compute **DOMINANCE** At The Edge



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

The Rugged CDS - Cross Domain Solution

The **ATMOS-CDS** Server from Core Systems redefines military-grade performance and security, **built to meet the rigorous demands of defense and intelligence agencies like the NSA.**

Engineered for mission-critical operations, it **offers powerful computing, rugged durability, and enhanced security for extreme environments.** Its compact, stackable design reduces computing space by over 10x, while an **onboard UPS battery backup** ensures uninterrupted command and control.

The **ATMOS-CDS** Server enables **seamless data transfer, secure multi-domain communication, and rugged reliability**—making it the ideal solution for military and government missions.

- **Self-encrypting drives** for secure, lossless data protection
- **Customizable BIOS** for tailored security and control
- **UPS backup** for uninterrupted operations
- **SWaP-C design** for compact, rugged deployment
- **32 Xeon® Gold cores** with **NVIDIA L4 GPU** for high performance
- **7x independent NIC ports** for network redundancy and efficiency

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)



Each node includes 7x independently operating 1GB ports allowing users to set up separate, individual networks



Technical Specifications

Dimensions

Height: 3.5 inches, Width: 8.5 inches, Depth: 14.75 inches
Weight: 15 lbs

CPU

32 Intel Xeon Gold Cores

RAM

Up to 2TB DDR4 ECG

GPU Support

NVIDIA L4 Tensor Core GPU Card

Security

TPM 2.0 Module

Network

2× 10GB NIC Ports
7× 1GB Independent Controller NIC Ports (Add-in)

Storage

2x 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

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: -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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