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THE EMBEDDED EDGE
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ATMOS™ by CORE SYSTEMS

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

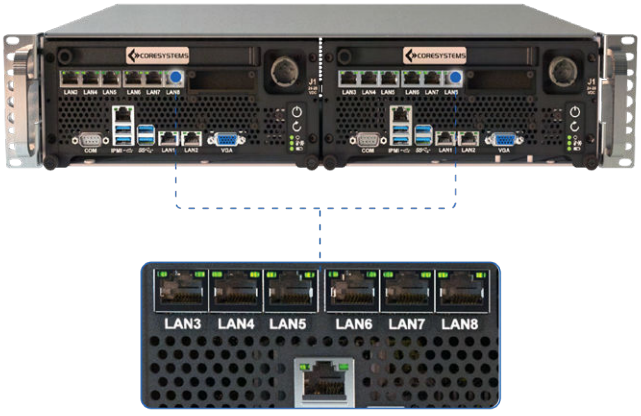
Operational Temperature
MIL-STD-810F, Method 501.5, Procedures I/II: -15°C to +55°C

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, 5-20000Hz, 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 seperate, individual networks

CORE SYSTEMS

ATMOS-CDS (Cross-Domain Solution)

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

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, 5-20000Hz, 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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