unitronix
THE EMBEDDED EDGE
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CORE SYSTEMS

TACTICAL ATMOS-2 CDS SERVER NODE

Rugged ATMOS-2 CDS

The ATMOS-2 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-2 CDS Server enables seamless data transfer, secure multi-domain communication, and rugged reliability, making it the ideal solution for military and government missions.

- 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
- 2x NVME Hot-Swap SSD Drives
- NVIDIA L4 GPU Card
- 7x Physically Independent Ethernet Ports
- Onboard UPS Battery Backup
- Rugged MIL-Spec Chassis
- Stackable Chassis Rail System
- Native 24-28VDC Power Input
- Optional AC-DC External Power Supply

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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 DDR4 ECG

GPU
NVIDIA L4 Tensor Core GPU Card

Security
TPM 2.0 Module

Network
1× 4-Port 10G NIC Card
2x 10G Onboard NIC Ports

Power
28VDC Power Input

Storage
2x NVME Hot-Swap SSD Drives

Chassis
Stackable Rugged MIL-Spec Chassis

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: -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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