

ATMOS2 SERIES

Product Brief



NGC2READY



ATMOS2 GPU

Accelerate AI workloads with NVIDIA GPU computing at the edge.



ATMOS2 CDS

Securely connect mission systems across multiple operational domains.



ATMOS2 Switch

Connect mission systems with rugged, reliable tactical network infrastructure.

NGC2 READY

MISSION READY

The **ATMOS2 Rugged Edge Node Series from Core Systems** is built to scale your mission at the edge. We design and manufacture rugged, stackable GPU compute and networking nodes. Accelerate your NGC2 mission with a proven tactical solution built for C2NOW and JADC2 requirements.

Is your mission NGC2 Ready?

ATMOS2 Switch

Connect your nodes with this rugged 20-port switch.

[Request Quote](#)

ATMOS2 GPU

Utilize the power of NVIDIA GPU and AI.

[Request Quote](#)

ATMOS2 CDS

Communicate across domains with this tactical node.

[Request Quote](#)



We've collapsed an entire server stack into a single chassis: higher core counts, onboard SSD storage, the latest GPUs for AI workloads, and an integrated UPS battery, all in a fraction of the SWaP. That combination didn't exist before ATMOS2.

- CHRIS SCHAFFNER
PRESIDENT OF CORE SYSTEMS

ATMOS2 GPU

RUGGED AI COMPUTE NODE

The **ATMOS2 GPU** is a rugged AI edge node built for C2, ISR, and autonomous missions. Featuring up to **144 Intel® Xeon® CPU cores**, an **NVIDIA L4 Tensor Core GPU**, and high-speed **NVMe storage**, it delivers real-time AI processing and mission-critical performance at the tactical edge.

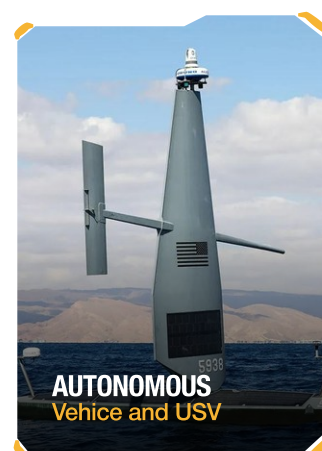
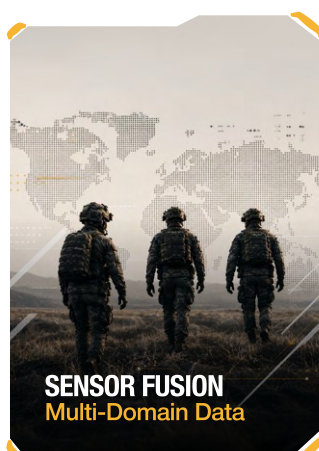
Designed for harsh military environments, it combines a **MIL-spec stackable chassis**, integrated UPS, and native DC power to provide reliable, scalable computing on vehicles, command posts, and expeditionary platforms while reducing latency and accelerating decisions.



CPU Cores	Up to 144x
GPU	NVIDIA L4 Tensor Core
RAM	Up to 2TB per node
Network	2x 10G Onboard NIC
Storage	4x NVME Hot-Swap SSD
Power	Onboard UPS Battery Backup



DESIGNED FOR



ATMOS2 CDS

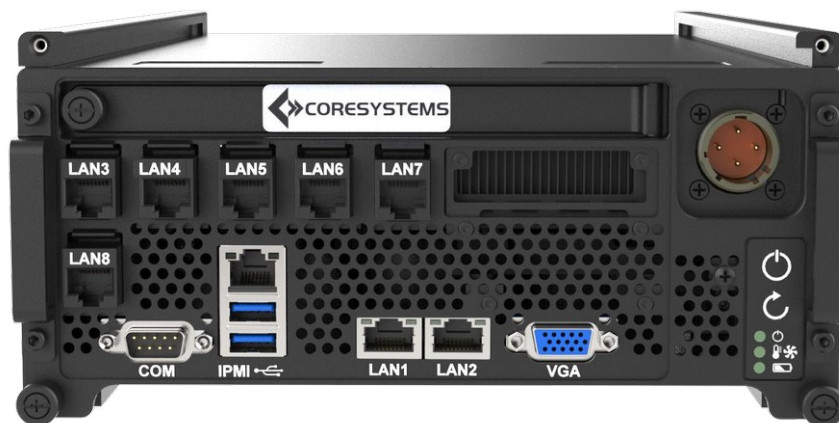
RUGGED CROSS DOMAIN NODE

The Rugged **ATMOS2 CDS** (Cross-Domain-Solution) is a compact, mission-scalable server designed with **7 physically independent Ethernet Controllers**. Each ATMOS2 CDS node features up to 144x physical Intel® Xeon® Gold cores with onboard UPS battery backup for uninterrupted C2 on-the-move.

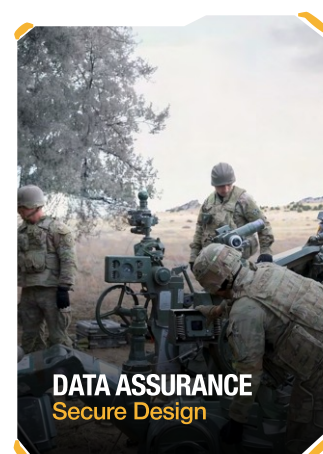
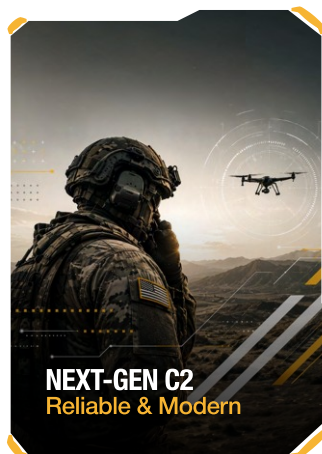
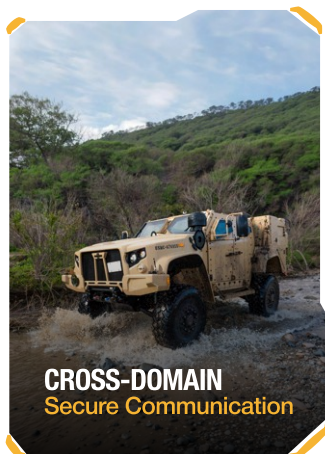
Engineered for mission-critical operations, the ATMOS2 CDS Node delivers rugged, secure computing in a compact, stackable design that reduces footprint by over 10x. With an **onboard UPS**, seamless data transfer, and secure multi-domain communication, it provides reliable performance for military and government missions.



CPU Cores	Up to 144x
GPU	NVIDIA L4 Tensor Core
RAM	Up to 2TB per node
Network	7x Independent NIC
Storage	2x NVME Hot-Swap SSD
Power	Onboard UPS Battery Backup



DESIGNED FOR



ATMOS2 SWITCH

RUGGED NETWORKING NODE

The Rugged **ATMOS Switch** is a compact, ruggedized Cisco IE-3100 Ethernet switch featuring **18 Gigabit ports, 2 combo copper/SFP uplinks, and Cisco IOS XE**. Built for harsh environments, it delivers reliable Layer 2 networking, dual DC power inputs, industrial protocol support, and flexible mounting options.

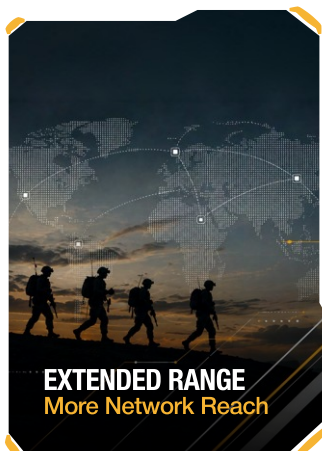
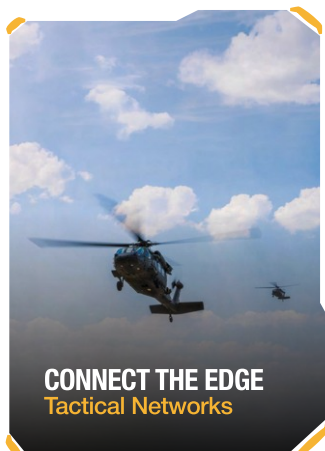
Designed to pair with ATMOS tactical nodes, it slides and locks directly onto the ATMOS chassis to create a unified networking and compute platform. This modular design simplifies deployment while enabling compact, high-performance edge operations.



Connectivity	Up to 144x
Performance	NVIDIA L4 Tensor Core
Throughput	Up to 2TB per node
Cisco Hardware	2x 10G Onboard NIC
Storage	SD Card Slot & Micro-USB
Power	Onboard UPS Battery Backup



DESIGNED FOR



ATMOS2 SAVE

SAVE-COMPLIANT SOLUTION

The Core Systems **ATMOS SAVE Kit** is a SAVE-compliant tactical edge solution that integrates an ATMOS2 GPU compute node, ATMOS2 managed switch, and **dual-output battery power subsystem** into a compact SAVE chassis. Built for rapid deployment, it delivers high-performance AI processing, integrated networking, and resilient power in one rugged platform.

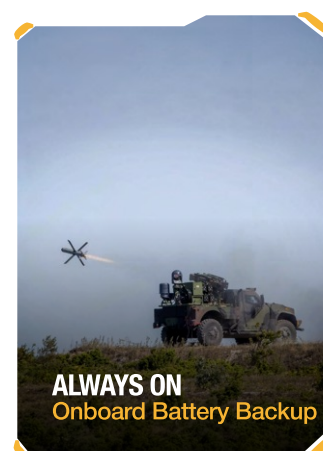
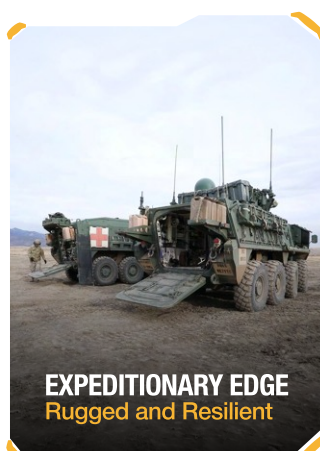
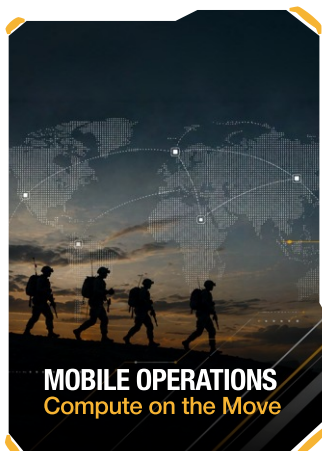
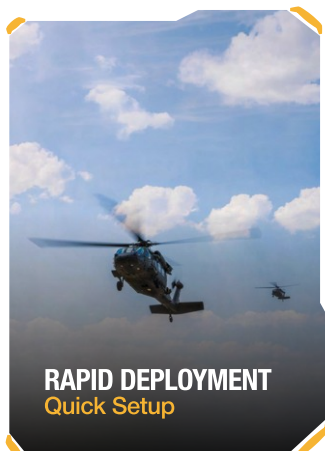
Designed for mobile, vehicle, and expeditionary operations, the ATMOS SAVE Kit **supports native DC input with onboard battery backup** for uninterrupted operation. Its modular, stackable architecture simplifies transport, integration, and field deployment while enabling scalable edge computing.



Compute	ATMOS2 GPU
Networking	ATMOS2 Switch
Chassis	SAVE-Compliant
Mounting	Integrated Hardware
Battery	Dual-Output
Power	Onboard UPS Battery Backup



DESIGNED FOR



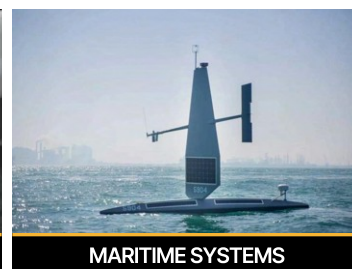
HOW IT WORKS

THE ATMOS2 SERIES

The **ATMOS2 GPU** and **ATMOS2 CDS** transforms raw sensor data into actionable intelligence at the tactical edge. By processing information closer to where it is generated, it reduces latency, minimizes network dependence, and accelerates operational decision-making. Connect at the edge with the **ATMOS2 Switch** in order to make informed decisions in real-time.

01 COLLECT

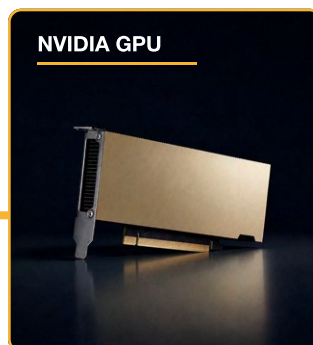
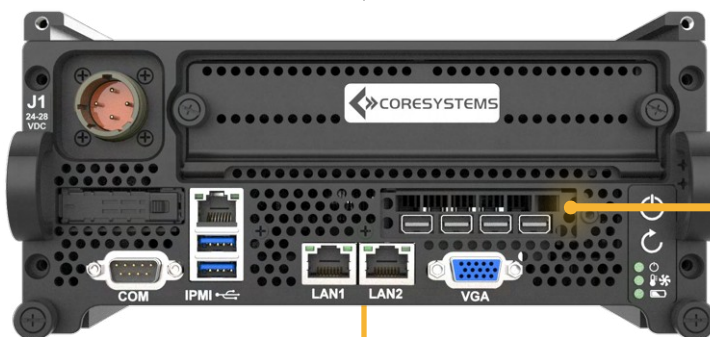
Multi-Domain Sensor Inputs



02 PROCESS

Edge AI Processing

The ATMOS2 GPU leverages the power of the **NVIDIA L4 Tensor Core GPU** to perform AI inference and data fusion at the edge to deliver high-performance compute with minimal latency.



03 CONNECT

Rugged Networking

The ATMOS2 Switch is equipped with 20-ports to increase connectivity and bandwidth in missions at the edge.



REQUEST A QUOTE

GET IN TOUCH TODAY

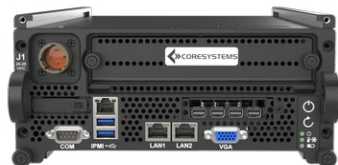
Optimize your mission today with the ATMOS2 Tactical Edge Server Series from Core Systems. With an integrated UPS, stackable chassis rail system, and MIL-SPEC-tested rugged design, ATMOS2 delivers the resilient infrastructure needed to maintain compute availability, scale performance, and operate confidently in demanding environments.

One platform. Multiple configurations. Mission-ready compute at the edge.

ATMOS2 GPU

Utilize the power of NVIDIA GPU and AI.

[Click Here to View](#) >



ATMOS2 CDS

Operate across domains with 7 independent NIC controllers and GPU.

[Click Here to View](#) >



ATMOS2 Switch

Networking for your all-in-one computing setup.

[Click Here to View](#) >



ATMOS2 SAVE

SAVE-compliant, fully integrated edge solution.

[Click Here to View](#) >



BUILD YOUR SOLUTION
NGC2 COMPUTING EXPERTS

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NGC2READY



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