



# AEROSPACE SOLUTIONS

Rugged Computing for Aerospace Applications by Core Systems

# Rugged Computing Solutions for Aerospace Applications

## Secure Solutions for Airborne Applications

Aerospace operations demand reliable, high-performance technology capable of enduring extreme conditions. Core Systems offers a range of rugged computing products designed to meet the critical requirements of aerospace environments, ensuring seamless operation at high altitudes, across temperature extremes, and under intense vibration.

## Key Products for Aerospace Applications

### Application-Specific Designs

#### 1U & 2U Rugged Rackmount Servers

- **Compact and Durable:** Built with reinforced materials for vibration resistance.
- **Advanced Thermal Management:** Optimized airflow and cooling for high-altitude operations.
- **Customizable Configurations:** Tailored to mission-specific needs, including AI capabilities and edge computing.

#### Rugged Displays and Panels

- **High Brightness and Clarity:** Perfect for use in cockpits or control rooms.
- **Resistant to EMI and RFI:** Ensures clear communication in challenging electromagnetic environments.
- **Touchscreen Options:** Designed for easy interaction, even with gloves.

#### Embedded Mission Computers

- **Lightweight and Compact:** Ideal for UAVs and onboard systems.
- **Built for Extreme Temperatures:** Performs reliably from sub-zero to scorching conditions.
- **Real-Time Data Processing:** Supports critical decision-making in flight.

#### Rugged Data Storage Solutions

- **Secure and Reliable:** Protects sensitive aerospace data with advanced encryption.
- **Shockproof Design:** Ensures data integrity during rapid movement and turbulence.
- **Hot-Swappable Drives:** Enables fast and easy maintenance during operations.



# Why Core Systems?

## Find Your Solution for Aerospace Applications

Core Systems delivers high-performance, customizable solutions designed to meet the rigorous demands of aerospace applications. With proven reliability trusted by top aerospace organizations, our products support mission-critical tasks with unwavering precision. Our end-to-end support ensures that from initial design to final integration, your technology performs flawlessly at every stage.

- **Tailored Solutions:** Each product is customizable to fit the specific needs of aerospace applications.
- **Proven Reliability:** Our products are trusted by aerospace organizations for mission-critical tasks.
- **End-to-End Support:** From design to integration, Core Systems ensures your technology performs at every step.

## Key Features

We Provide Modern Solutions You Can Trust



### MIL-SPEC Tested

Systems designed to withstand temperature extremes, altitude changes, and vibration, ensuring reliable operation.



### SWaP-Optimized

Our solutions minimize size, weight, and power consumption while maximizing capability and performance, perfect for UAVs and manned aircraft.



### Real-Time Data

Advanced computing systems that process and relay mission-critical data to pilots and crew in real time.



### EMI/EMC Shielding

Electromagnetic interference (EMI) and compatibility (EMC) shielding to prevent cross-signal disruption in military avionics.

## Applications & Solutions

Let Us Design a Solution That Fits Your Application



### Avionics Systems

Designed for navigation, communication, and mission planning, our systems enable accurate flight operations and data integration.



### Airborne Surveillance

Integrate with radar and sensor technology for real-time battlefield intelligence.



### Mission Planning

Ensure seamless, secure communication between air, ground, and naval forces during complex missions.



### Flying Data Centers

Our rugged computing nodes can quickly turn aircraft into an asset that can provide valuable real-time data back to base.

## Find Your Solution Today

### Start Your Project With Core Systems

Core Systems is a rugged computing company that provides a variety of technology solutions for military and industrial applications. We design and build servers, displays, mission computers and fully integrated cabinet solutions out of our 85,000 sq. ft. facility located in San Diego, California.

Core Systems designs and manufactures best-in-class industrial and military computing systems based on our customer's specifications. We offer ground-up solutions and with our on-site testing and fabrication centers, the entire process is expedited from conception to assembly.

Speak to a representative today by calling **858-683-1483**

#### HOURS OF OPERATION

Monday - Friday 8am - 8pm PST

#### PHONE & FAX

Phone: 858-683-1483

Fax: 858-391-0109

#### E-MAIL

[sales@core-systems.com](mailto:sales@core-systems.com)

