

Training & Simulation Solutions

Powering the World's Most Important Devices®

Dedicated Computing delivers highly engineered embedded computing solutions that power training and simulation systems to military and commercial OEMs worldwide.

Our systems address these key industry challenges:



Improve performance

Dedicated Computing has years of experience delivering embedded systems that meet the graphical needs of the training and simulation market. Our systems are reliable and give the OEM the computational power needed to keep latency at zero.



Improve System Uptime

Proactive monitoring and management improves reliability and corrects potential failures before they become a reality, avoiding downtime and reducing security threats associated with software stack vulnerabilities.



Extend Global Reach

With expertise in regulation and logistics requirements worldwide, Dedicated Computing can make expanding into other markets easier. We manage updates and new requirements throughout the product lifecycle.

Our systems enable fast and easy deployment by providing integrated hardware, software, and services. In addition, your product will ship directly to the end site, ready for commissioning, with software loaded and manufacture acceptance testing done.

These industry trends highlight a growing demand for more dynamic, flexible, and intelligent training systems that can accommodate the fast-paced changes in technology and market needs:

1. Virtual, augmented and mixed reality (extended reality or XR)
2. Artificial Intelligence (AI) and Machine Learning (ML)
3. Edge-to-cloud solutions
4. Data analytics and performance monitoring
5. Collaborative and multi-user training platforms
6. Integration with IoT and sensors
7. Sustainability and green training initiatives



High Demand in Defense Sector

The military is a major driver of simulation technologies, with ongoing investments in training soldiers, pilots, and engineers through sophisticated simulators. This market is seeing growth in mission-specific training simulations, cyber defense, and AI-driven wargaming simulations.



Modernization of Commercial Aviation

Continued investment in simulators that are critical for recurrent training for both pilots and air traffic controllers to help improve decision-making skills in high-pressure environments and support cognitive load management.



Medical and Surgical Training

The healthcare industry is adopting high-fidelity simulations to train medical professionals, especially in critical procedures. Simulation-based training is helping to reduce errors and improve patient outcomes.



Telehealth and Virtual Labs

With the rise of remote healthcare services, simulations are being used to train healthcare workers on telehealth practices and virtual patient interaction.



Experts in Training & Simulation Technologies

DC's market expertise is based on decades of experience in delivering high-end graphics image generators in a variety of form factors, from portable to complete rack-integration. We are a strategic supplier for several of the leading training & simulation original equipment manufacturers throughout the world.



Purpose Built

Dedicated Computing provides purpose-built and validated systems for both regulated and unregulated markets.



Reliable

Our comprehensive embedded systems are designed to deliver the performance, reliability, and seamless integration global OEMs require.



Industry Knowledge

Powerful 1U, 2U, and 4U rack servers, along with transportable systems are powering the next era of visual-based computing.

Training and simulation OEMs must find ways to reduce cost, extend training options to new environments, and increase performance of systems. Mastering image management, security protocols, compliance, and streamlined backups are all essential activities for OEMs to stay competitive in this landscape.

Dedicated Computing Capabilities for Training & Simulation OEMs

- Ruggedization
- Rapid Prototyping
- Certification Management
- Hardware & Software Integration
- Lifecycle Management
- Image Management
- DC Digital Services
- Rack Scale Integration



Who is Dedicated Computing?

We power the world's most important devices: Equipment that saves lives and trains professionals to do the same - with innovative, secure, reliable, and customizable computing solutions.

Dedicated Computing engineers standard and custom computing platforms that the world's leading equipment manufacturers rely on for performance, product consistency and long lifecycles.

Our Vision

To be the trusted partner for mission-critical industries, delivering specialized computing solutions that tackle our customers' toughest challenges with unmatched reliability and performance, driving innovation and success for a more resilient future.



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