

Healthcare & Life Sciences Solutions

Powering the World's Most Important Devices®

Dedicated Computing delivers highly engineered embedded computing solutions that power Healthcare and Life Sciences applications for global OEMs. From medical imaging and diagnostics to AI-enabled surgical systems and laboratory platforms, our purpose-built systems are designed to meet the performance, regulatory and lifecycle demands of mission-critical environments.

As healthcare and life sciences technologies become increasingly intelligent, connected, and data-driven, OEMs require computing platforms that deliver real-time performance, long-term reliability and seamless integration.

Our systems address these key industry challenges:



Improve performance

High-performance computing platforms for imaging, AI-assisted diagnostics, robotics, and advanced visualization applications.



Improve System Uptime

Lifecycle services and proactive monitoring designed to maximize availability in mission-critical environments.



Accelerate Time-to-Market

Pre-validated platforms and engineering expertise that simplify integration and reduce development time.

Experts in Healthcare & Life Sciences Technologies

Dedicated Computing brings decades of experience supporting OEMs across the healthcare and life sciences landscape. We design and deliver purpose-built computing platforms that meet stringent regulatory requirements while enabling innovation in patient care, diagnostics, and research.



Purpose Built

Validated systems designed for regulated environments, including ISO 13485-certified processes.



Reliable

High-performance, long-lifecycle platforms engineered for predictable migrations and long-term availability.



Industry Knowledge

Expertise spanning edge AI, surgical environments, laboratory diagnostics, and high-throughput healthcare systems.

Dedicated Computing Systems in Action

We developed the Messer™ M1300 platform specifically to support AI functionality in robotic surgery applications. It is IEC 60601-ready for healthcare and life science applications and has been used to treat over 1000 patients with minimally invasive procedures.



Our expertise in Healthcare & Life Sciences applications includes:

- Medical Imaging
- Surgical Navigation
- Laser Eye Surgery
- Radiation Treatment Planning
- Cardiac Surgery
- Laboratory Diagnostics
- Genomic Sequencing
- Robotics

Dedicated Computing Capabilities for Healthcare & Life Sciences OEMs

- Design & Engineering Support
- Rapid Prototyping
- Certification Management
- Hardware & Software Integration
- Lifecycle Management
- Windows/Linux Expertise
- Image & Software Stack Management
- DC Assure™ Digital Services
- Rack Scale & System Integration

Reduce Cost and Complexity

Our expertise enables the right balance of performance, environmental, and business requirements while reducing deployment complexity and total cost of ownership.

Dedicated Computing supports OEMs with:

- Software stack management
- Validation & verification support
- Long lifecycle management
- Lean manufacturing and direct fulfilment
- ISO 13485-certified production
- Automated device history records
- DC Assure™ proactive monitoring and analytics

Connected, Secure, Complete Technical Computing Solutions from an Experienced Partner.

We combine hardware, software, and services into integrated solutions optimized for long life, high availability, and regulatory compliance. Through close collaboration with strategic technology partners and customers, we help identify and integrate the latest technologies to ensure competitive, future-ready deployments.