

DFI

Medical-Grade System Operates Quietly and Efficiently In A Hospital Environment

Unlike general industrial application scenarios, the "people-oriented" medical industry needs a fanless embedded industrial computer that can be wholly integrated into the hospital environment. DFI's MD711-SU is a high-performance, fanless embedded box PC designed to work with medical equipment. With a comprehensive design, rapid customization, and instant and agile business services, DFI has helped Eastern European customers create an oncology information system along with seamless operation in a hospital environment.

Region: **Europe**

Industry: **Medical industry**

Application: **Oncology Information System**

Solution: **MD711-SU medical grade system**



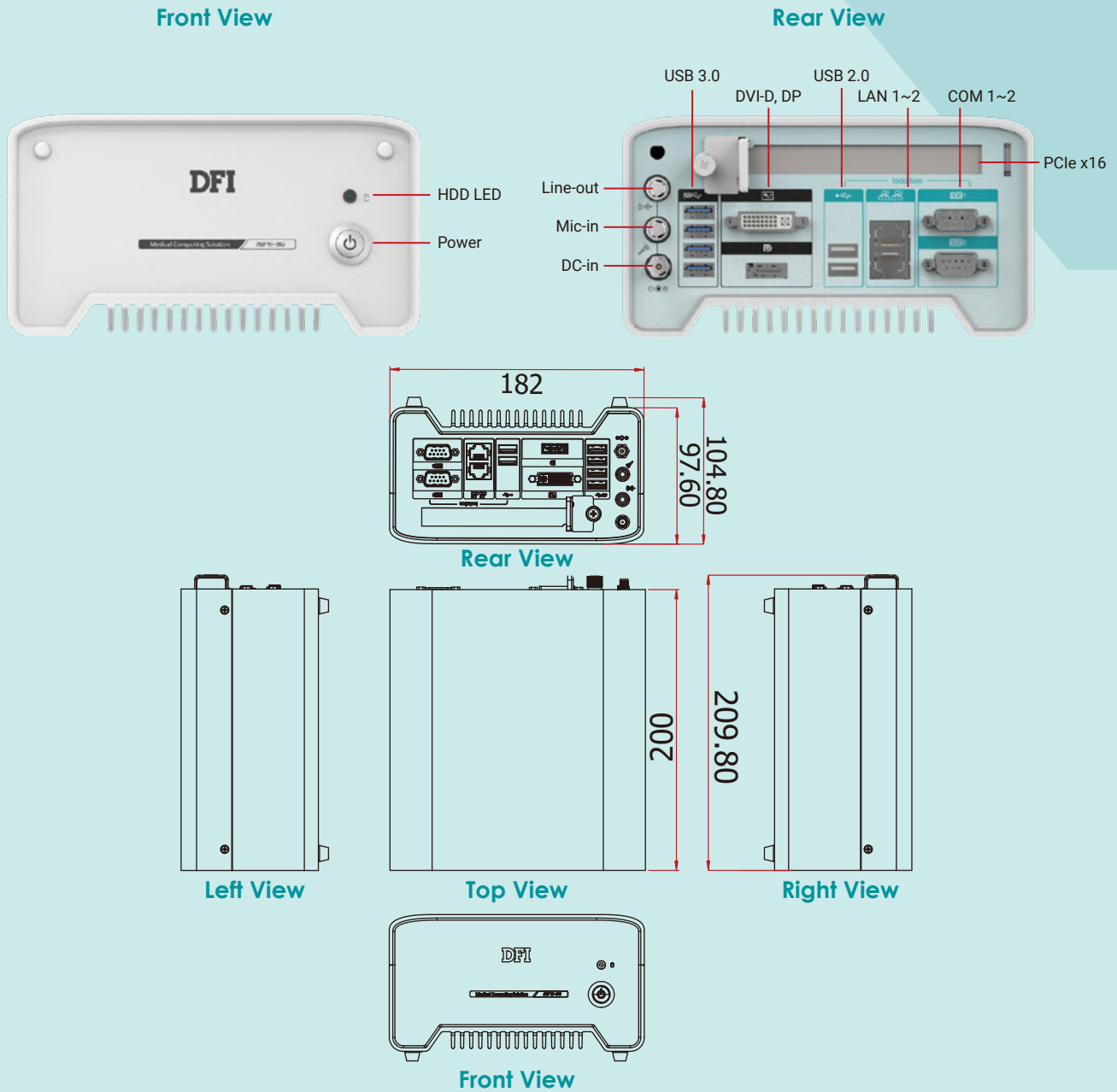


A manufacturer specializing in healthcare software and information systems in Eastern Europe provides the development and production of special hardware, the provision of production services for auxiliary equipment for radiotherapy, the stability test of irradiators, and consulting services for healthcare information management. Its comprehensive solution for oncology care management covers patient card, radiotherapy, and management of chemotherapeutic drug dilution.

In addition to assisting a multidisciplinary team composed of pharmacists, oncologists, pharmaceutical assistants, nurses, and information technicians to produce information modules for inhibitors, medical supplies ordering, and temperature monitoring, it also includes an oncology information system that displays all treatment information. This information includes medical history, medical reports, coordination between different examinations, recording individual patient

supervision costs and medical records, and providing information required by hospital management and insurance companies through statistical control. In addition, DFI's MD711-SU medical-grade system has become the computing platform of the new-generation oncology information system and is used to capture video data from testing equipment.

With gently curved corners and pure white color that blends perfectly with medical scenarios, DFI's MD711-SU medical computing system features smooth surfaces and a downward fin design to render a stackable system with a safe and easy-to-clean shape. The medical-grade antibacterial finish inhibits bacterial growth and prevents system damage from erosive substances in the medical cleanser. It can maintain excellent hygiene in medical environments. This medical PC is equipped with 4kV isolated I/O ports and specialized heat dissipation technology with easy-to-clean design and silent operation. The ideal medical



applications for this system covers nursing carts, operating rooms, healthcare information systems, and medical OEM equipment integration to ensure the best patient care.

The size of MD711-SU defies the public's cognition in the medical system. It measures 182mm x 97.6mm x 200mm (W x H x D) with lightweight and high mobility compared to other traditional medical systems. The medical computer has the most silent

fanless design with long-term support, which can be used in noise-sensitive environments and dedicated to various healthcare applications. The Nano-silver antibacterial agent on the system surface transforms oxygen into active oxygen, which has extreme sterilizing power and maintains the antibacterial effect for a long time. With pure white chassis to match the healthcare environment, the system features curved angles that improve patient and staff safety. Specifically designed for medical scenarios, the smooth shape enabled by a unique downward fin allows easy cleaning and protects the system from being damaged by cleaning agents. The MD711-SU features isolated I/O ports (LAN, COM, USB) with 4kV support, ensuring speedy signal transmission without noise and easy integration with medical equipment. An extra expansion slot further powers the system with high-resolution imaging capabilities to enable various medical applications, including ultrasound, endoscopy, and more. The I/O interface design offers an improved user experience with intuitive port type labels, maximizing the efficiency of staff and enabling effortless implementation.

The MD711-SU has also been certificated by medical equipment-related certifications such as IEC60601, EN60601, and ISO14971. Furthermore, the input voltage also supports 9-36V wide voltage, which strengthens its adaptability to different environments.

Combining the above features, with the built-in independent I/O interface and well-rounded expansion slot, and an intuitive interface design brings not only high-resolution imaging performance to the system but also helps medical staff make an accurate medical diagnosis and provide better medical services so that the MD711-SU system can

perfectly meet the needs of the medical environment

In addition, DFI also provides fast customization, adding a front USB port and a speaker that emits a warning sound. Any inquiries and requirements from customers can be responded to quickly within 24 hours. This is also the main reason why MD711-SU was chosen.

With the increasing demand for intelligent medical applications, DFI provides a series of medical-grade embedded computers for medical equipment manufacturers and system integrators, covering from Mini-ITX motherboards, to embedded modules, to medical computer systems, etc. . With a reliable industrial-grade motherboard as the central controller, DFI provides the medical-grade computer across complete medical-grade solutions for major hospitals, and becomes the best choice for clinics, nursing stations, and pharmacies.

Reference Information:

[Comprehensive Smart Healthcare Solution](#)

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DFI

Founded in 1981, DFI is a global leading provider of high-performance computing technology across multiple embedded industries. With its innovative design and premium quality management system, DFI's industrial-grade solutions enable customers to optimize their equipment and ensure high reliability, long-term life cycle, and 24/7 durability in a breadth of markets including factory automation, medical, gaming, transportation, smart energy, defense, and intelligent retail.

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