



LEADING THE EMBEDDED FUTURE



DUAGON'S EMBEDDED COMPUTING ECOSYSTEM FOR REGULATED MEDICAL DEVICES

**RELIABLE, COMPACT & LONGTERM-AVAILABLE EMBEDDED COMPUTER
HARDWARE AND SOFTWARE FOR USE IN VITAL APPLICATIONS**



duagon's Embedded Computing Ecosystem for Regulated Medical Devices

As a leading supplier of communication, computing and control technology, we always strive to meet the high standards required for computers used in mission-critical and vital applications. Our customers in the railway, medical and critical automation markets have benefited from our expertise for many years.

When developing computers for use in a hospital environment, our focus is on helping medical professionals to offer their patients the best care possible, not only in reliable ventilation equipment, patient monitoring and entertainment at the bedside, but also in surgical robotics, data analysis and diagnosis in the laboratory and high-performance imaging in x-rays and CT-scans.

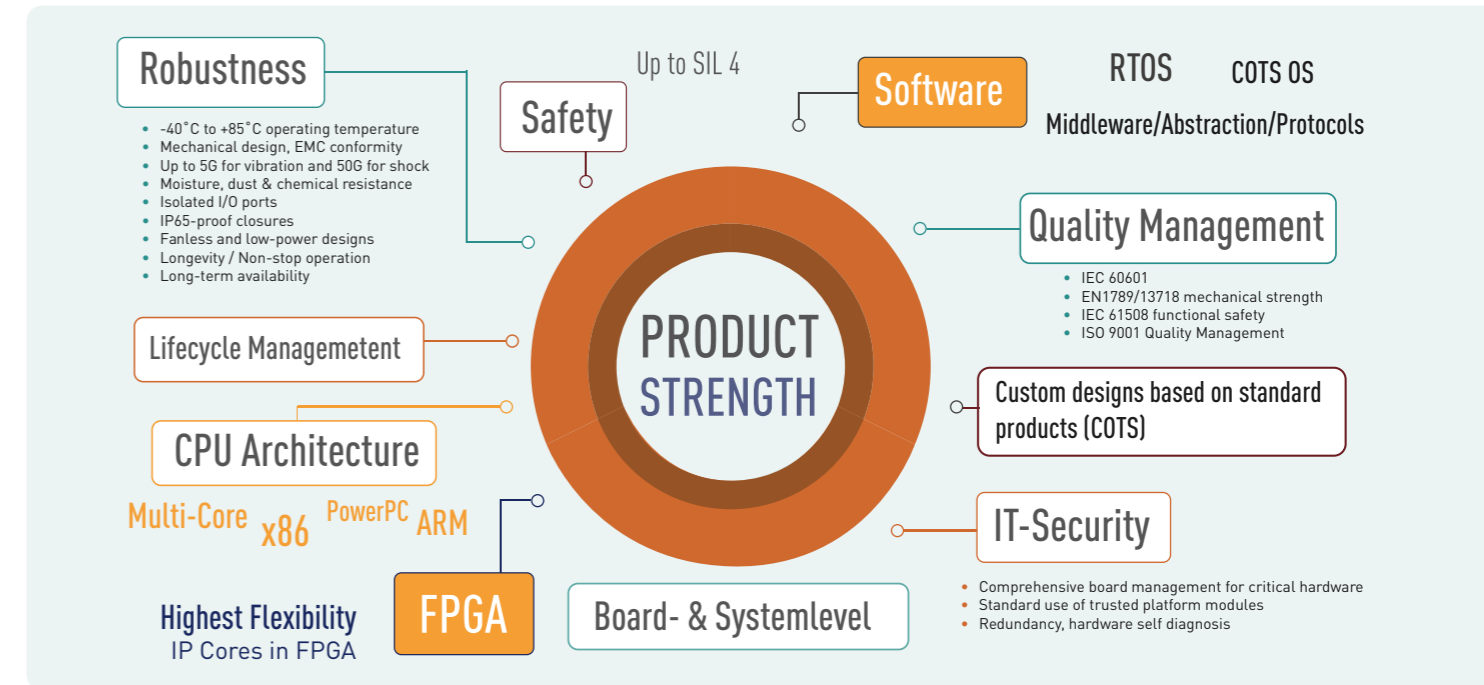
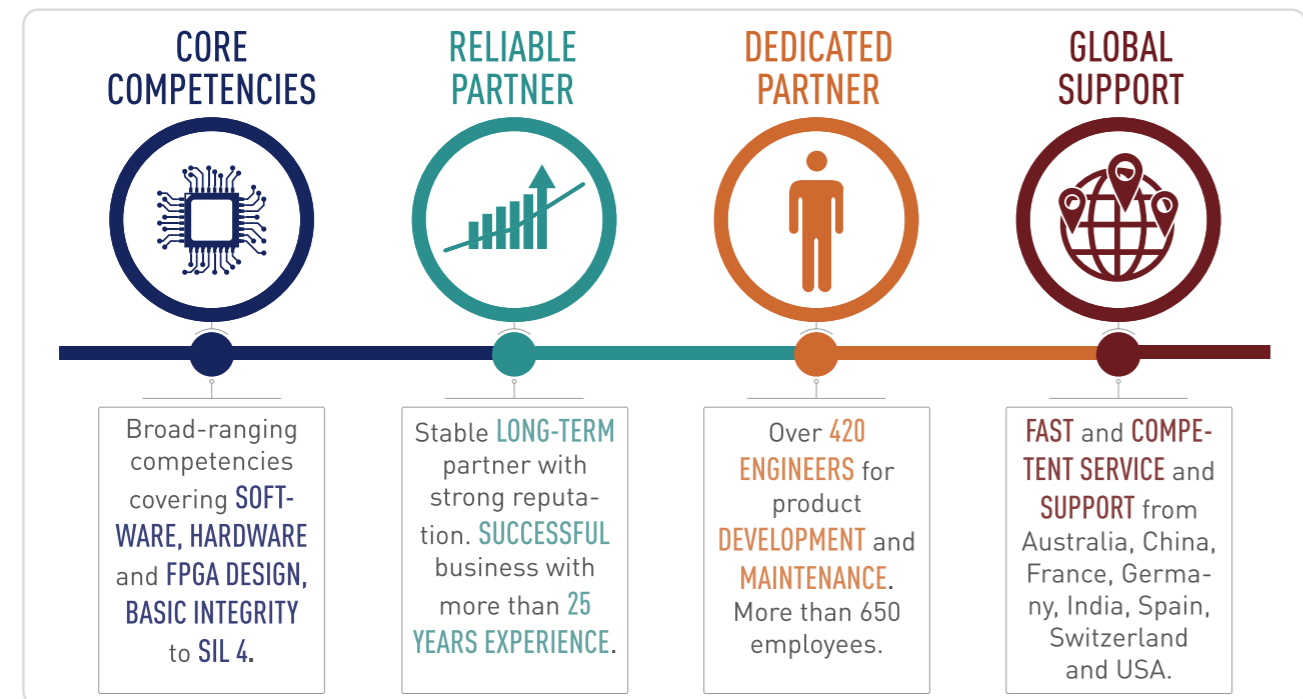
Understanding the technical requirements for components, PCBs and systems used in a sterile hospital environment is crucial in developing products that meet the high standards for medical equipment, for example, according to EN 60601. This is especially important for equipment used in vital

applications like medical ventilators or robotic surgery, which need to be designed to safeguard the patient's life.

duagon's boards and systems are reliable, compact and long-term available. Our product ranges from hardware that is optimized for high-performance computing, to fanless operation concepts and low-power consumption designs. Our software support includes real-time operating systems (RTOS), optional middleware-based technology and/or abstraction layer support, as well as a wide range of communication protocols.

All our products are designed and engineered with a focus on open standards and easy integration into any application. This high quality is guaranteed by the strict execution of in-depth tests during the engineering process. Our internal test laboratory is accredited by the German accreditation body DAkkS, which covers tests for EMC, environmental simulation and safety of electrical equipment.

duagon's embedded computing ecosystems for regulated medical devices enable our customers to shape and realize their technology roadmap.



CRITICAL CARE

Infusion Pumps, Ventilation Equipment, Defibrillators

Requirements:
High reliability, low power consumption, long-term availability, connectivity (IoT)

Our offering:
COMs, SBCs, Custom solutions



SURGICAL ROBOTICS

Robotics Control & Communication Equipment

Requirements:
High reliability, mid-to-high-range computing

Our offering:
CPCI, COMe, Box PCs, Systems, Custom solutions



IN-VITRO DIAGNOSTICS

Laboratory Automation, Point-of-Care Diagnostics

Requirements:
Mid-range performance, standard interfacing, wireless connectivity (IoT)

Our offering:
COMs, Box & Panel PCs, DIN-Rail, Systems, Custom solutions



MEDICAL IMAGING

X-Rays, CT-Scans, Magnetic Resonance Imaging

Requirements:
High-performance computer, high performance graphics

Our offering:
CPCI, COMe, Box PCs, Custom solutions

duagon WORLDWIDE

duagon has a global presence with support and sales representatives across 8 countries. With three decentralized engineering and production sites, our customers take advantage of the added competence and flexibility.



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