

duagon AG proves to be reliable supplier of medical hardware

Nuremberg, 11 November 2020 – During the COVID-19 crisis, duagon AG was once again able to prove itself to be a highly reliable developer and supplier of hardware for the medical industry. On short notice, duagon AG produced around 40,000 electronic controllers within a few weeks for Hamilton Medical, a leading manufacturer of ventilation solutions for intensive care.

Reliable computer components from duagon AG, developed and manufactured according to medical standards, have been in use in the medical industry for years. Several years ago, the company designed a customized board for the manufacturer Hamilton Medical, which is used to control ventilators with patient monitoring for invasive and non-invasive therapies for adults, children and infants.

The ESM COM solution, based on COTS products and implemented specifically for Hamilton Medical, includes an application-specific I/O fully embedded in FPGA graphics, binary I/O, pulse width measurement, quadrature decoder, frequency counter and a custom carrier board developed by Hamilton Medical. In addition, the board has a highly robust design, which is necessary due to the mobile equipment and the load capacity in use. The design also features long-term availability, and duagon AG maintains the complete life-cycle management process for the customer. The COM modules used are based on Power-PC and ARM architectures, which realize the connection to the host CPU by means of FPGA and PCI to withstand the tough real-time requirements.

Several tens of thousands of boards produced in a few weeks

Due to the COVID-19 pandemic, the demand for ventilators rose sharply worldwide and Hamilton Medical placed an order with duagon AG without advance notice for some 40,000 boards, with a delivery requirement of only a few weeks. An order of this volume is usually produced by duagon AG at its Nuremberg site within a period of more than one year. Despite the difficult market environment due to the pandemic, in particular the challenging procurement of components, duagon AG was able to manage the entire supply chain. Also due to the support of the suppliers, duagon AG was able to deliver the ordered boards on time, in some cases even early.

"Due to their very short-term and flexible support, duagon AG contributed significantly to our project success in the still challenging COVID-19 pandemic and exceeded our expectations by far. Against the background of our long-term partnership, duagon AG knew our products and requirements exactly and supplied us on time thanks to their local production in Europe", reports Marco Guarino, Team Leader Procurement at Hamilton Medical.

Modern machinery makes additional capacities possible

The accomplishment of this time-critical volume order was realized not only by the performance of the employees, but also by the state-of-the-art machinery at duagon AG. The company's continuous investment in production in Nuremberg was a key factor in this respect. At the same time, the internal focus on operational excellence as well as intelligent project and supply chain management enabled a smooth handling of the order. The established task force planned and monitored in detail capacities and processes to be able to handle the additional order without delays or neglecting ongoing business. Flexible shift models and working hours as well as variable personnel planning formed the basis for the implementation.

"Set up as a duagon wide joint project we have gained valuable insights from this significant order. It will improve our design to manufacturing process, project management and our customers in the medical sector will benefit from it in future projects. We would like to thank Hamilton Medical for the excellent cooperation and the confidence placed in us and are pleased that we were able to support our long-standing partner in this challenge", summarizes Dr. Michael Goldbach, Chief Sales & Marketing Officer of duagon AG.

You can also find this press release and pictures at: www.duagon.com/company/news-and-press/press-releases/.



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About duagon AG

Your leading global partner for reliable, sophisticated embedded products used in regulated critical applications

duagon AG, a rapidly expanding Swiss technology company, is a leading supplier for communication, computing and control technology as well as project planning and development services for system critical applications in the rail, medical and critical automation market. The superior software and hardware IP creates innovative, highly reliable and safe products, enabling customers to shape and realize their technology roadmap. Moreover, customers benefit from a shorter time to market and lower total cost of ownership.

For the rail sector, duagon AG develops and manufactures communication solutions for train networks, control, monitoring and information systems, both as standard products and as customized solutions. The extensive portfolio is complemented by engineering services and high-quality application software for rail signaling and train information systems. For the medical industry, the technology company develops and manufactures reliable, compact and long-term available COMs, carrier boards and systems including the required software adaptations. The core competencies include power-optimized designs, high-performance embedded computing platforms and highly compact modules for use in applications such as patient monitoring, ventilators and medical imaging.

duagon AG's development and production facilities are located at the headquarters in Dietikon near Zurich, in Nuremberg, Blue Bell (Pennsylvania) and Sydney. Through a global sales and support organization with offices in Australia, China, Germany, France, India, Spain, Switzerland and USA the company offers its customers a fast and competent service worldwide. In total, duagon AG employs more than 700 workers across eight countries, with about 420 engineers for product development and maintenance.

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About Hamilton Medical

In 1983 Hamilton Medical was founded with a vision: to develop Intelligent Ventilation solutions that make life easier for patients in critical care and for the people who care for them. Today, Hamilton Medical is a leading manufacturer of critical care ventilation solutions for a variety of patient populations, applications, and environments.

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