

# » Application Story «

COM Express® in Medical



## Imaging – Mobile Diagnostic Ultrasound

The arm-held diagnostic ultrasound system MyLab™One embeds an entire high performance ultrasound scanner in a 12-inch touch-screen tablet PC. The arm-held system allows the user to have the typical interaction you would have with any latest generation PC, simply by touching the screen, without using a keyboard or an external pointing device. Due to its very small size, lightness and portability, the battery powered system can be used without a worktop. This complete autonomy makes it possible to use the ultrasound scanner anywhere – even in more critical environments such as outdoor emergency situations at which time the reliability of the diagnosis are of paramount importance. The new ultrasound device, which is one of the world's most

compact mobile ultrasound designs, required both small size and excellent performance to capture the images and process them in real time. Esaote's choice was the COM Express® compact family from Kontron. Designers of small mobile devices especially benefit from the fact that the compact form factor uses 25 per cent less real estate on the carrier board compared to basic modules, leaving more room for other components under extreme limited space conditions. Furthermore, with smaller form factors, the power consumption in general is reduced, which leads to an increased battery up time so that even more light-weight devices can perform faster for even longer time without recharge.



Image1: With four mobility variants, the mobile diagnostic ultrasound system is very flexible

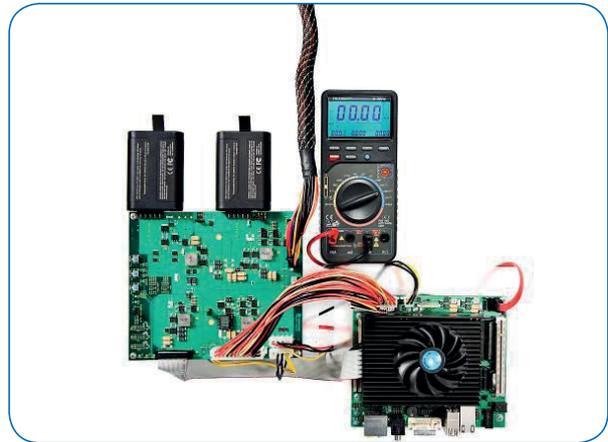


Image2: Picture showing ETXexpress® module embedded in the mobile diagnostic ultrasound system

## About Kontron

Kontron is a global leader in embedded computing technology. With more than 40% of its employees in research and development, Kontron creates many of the standards that drive the world's embedded computing platforms. Kontron's product longevity, local engineering and support, and value-added services, helps create a sustainable and viable embedded solution for OEMs and system integrators.

Kontron works closely with its customers on their embedded application-ready platforms and custom solutions, enabling them to focus on their core competencies. The result is an accelerated time-to-market, reduced total-cost-of-ownership and an improved overall application with leading-edge, highly-reliable embedded technology.

Kontron is listed on the German TecDAX stock exchanges under the symbol "KBC". For more information, please visit: [www.kontron.com](http://www.kontron.com)

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