

Medical imaging tools provide fast, easy ultrasound development



Texas Instruments offers an embedded processor software toolkit to help medical diagnostic ultrasound manufacturers quickly and easily develop ultrasound applications on the improved processing power of TI's C64x+™ DSP platforms.

Embedded Processor Software Toolkit for Medical Diagnostic Ultrasound (STK-MED)

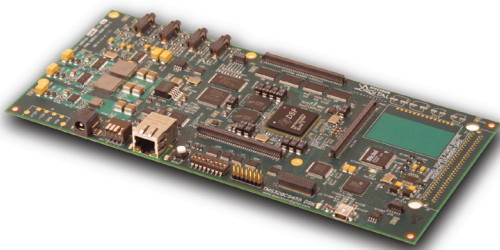
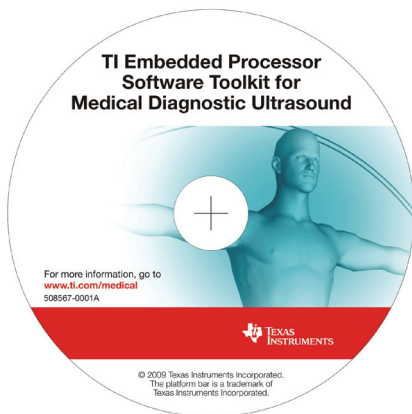
The STK-MED is designed to shorten customer development time by providing highly optimized C64x+ source code of common ultrasound algorithms. These algorithms showcase how ultrasound processing functions can leverage the C64x+ architecture for efficient performance and power consumption. The STK-MED contains detailed algorithm descriptions, API documentation, benchmarks and test benches for each software module, including:

- Doppler processing (color flow, power estimator, wall filter)
- RF demodulation and decimation
- DAS receive beamforming
- Scan conversion
- Optimized math utilities

TMS320C6455 DSP Starter Kit for Medical Imaging (DSK-MI)

The DSK-MI is a low-cost development platform designed to speed the development of medical imaging applications based on TI's C64x+ DSP generation. The DSK-MI is available with the industry's highest performing single core DSP running at 1.2 GHz and includes a 90-day evaluation version of the STK-MED. The DSK-MI features a Serial RapidIO® (sRIO®) bus interface offering a complete, easy-to-use multiprocessor C6455 DSP development system. The DSK-MI also includes the C6455 Code Composer Studio DSK tools, featuring CacheTune and CodeSizeTune Analysis tools as well as Compiler Consultant, Multi-Event Profiler and Real Time Data Exchange (RTDX™) for improved Host and Target communications.

Visit www.ti.com/medicalimaging to learn more about TI's complete medical imaging portfolio.



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