

TI Embedded Processor Software Toolkit for Medical Imaging



Medical imaging tools provide fast, easy development

Texas Instruments' embedded processor software toolkit helps medical imaging manufacturers quickly and easily develop applications on the improved processing power of TI's C66x™ DSP platforms.

Embedded Processor Software Toolkit for Medical Imaging (STK-MED)

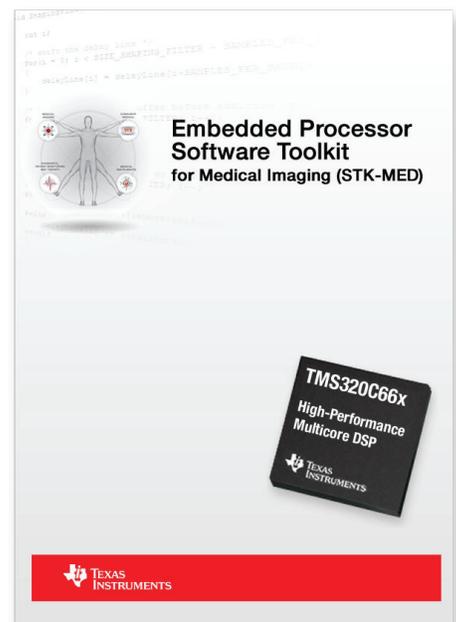
Designed to shorten customer development time, TI's STK-MED provides C66x source code of common medical imaging algorithms. This expansive collection of algorithms showcases how developers can leverage TI's C66x architecture for efficient performance and power consumption in real-time medical imaging applications such as diagnostic ultrasound and optical coherence tomography (OCT). The STK-MED contains detailed algorithm descriptions, API documentation, benchmarks and test benches for each software module, including:

- B-Mode processing
- Doppler processing (color flow, power estimator, wall filter)
- RF demodulation and decimation
- Scan conversion
- Optimized math utilities
- 3D rendering
- Real-time imaging processing for OCT

TI's STK-MED is available today for free download, making medical imaging development on TI DSPs easy and affordable. For information, or to learn more about TI's complete medical imaging portfolio, visit www.ti.com/tool/s2meddus.

Key Features

- Broad collection of real-time image processing source code for developing a range of medical imaging applications
- Comprehensive software and documentation enables customization and provides coding illustrations of computational optimization methods and modeling in custom processing functions
- Easy-to-use unit test benches for all modules help speed evaluation and development
- Functional test vectors and automatic function cycle profiling using TI's Code Composer Studio™ software



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