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# OMAP-L137/TMS320C6747 Floating Point Starter Kit TMDSOSKL137

Description

The OMAP-L137/TMS320C6747 Floating-Point Starter Kit, developed jointly with Spectrum Digital Inc., is a low-cost development platform designed to speed the development of high-precision applications based on TI's OMAP-L13x applications processors and TMS320C674x fixed-/floating-point DSPs (TMS320C6747, TMS320C6745 and TMS320C6743). The kit uses USB communications for true plug-and-play functionality. Both experienced and novice designers can get started immediately with innovative product designs by utilizing the starter kit's full-featured Code Composer Studio™ integrated development environment (IDE) and eXpressDSP™ software which includes the DSP/BIOS™ kernel. This kit also includes a demo version of MontaVista Linux Pro 5.0 tool chain.

The contents of the starter kit (SK) include:

- OMAP-L137/TMS320C6747 EVM with 4MB serial Flash and 64MB SDRAM

- Code Composer Studio™ IDE (limited to use on the starter kit)

- Demo version of MontaVista Pro 5.0 tools (to be used with the subsequent releases of this kit)

- USB cable

- Universal power supply

- AC power cords

- Read Me First document
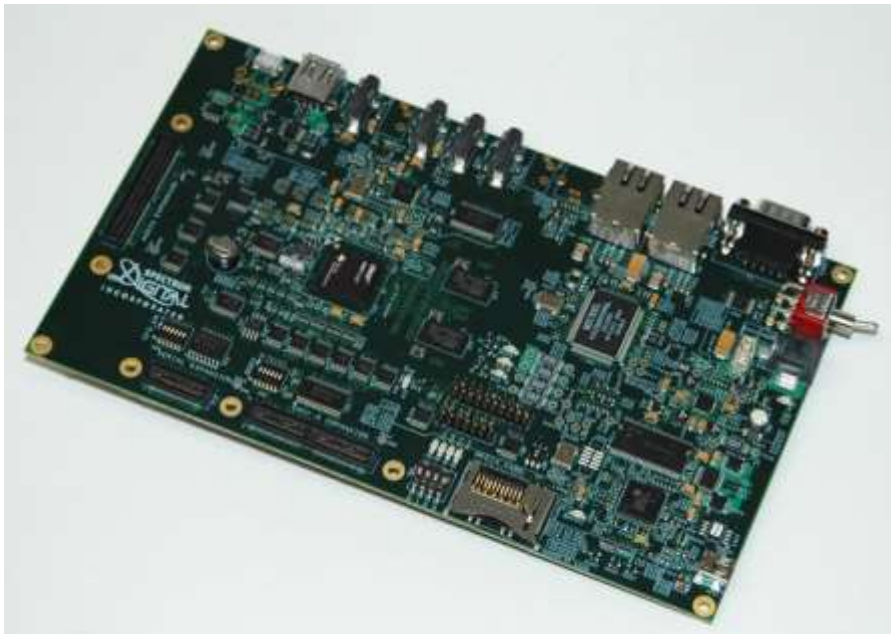
Features

Hardware - The Starter Kit (SK) features the OMAP-L137 applications processor that includes both a 300 MHz fixed/floating-point C674x DSP core and a 300 MHz ARM9 processor. This C674x DSP generation is designed for applications that require floating-point precision and fixed-point performance for energy-efficient, connected applications, such as audio, medical and industrial. It is the development platform for both the OMAP-L137 as well as the C6747, C6745 and C6743 fixed/floating-point DSPs. Other hardware features of the SK include the following:

- Embedded JTAG support via USB
- High-quality 24-bit stereo codec
- Four 3.5mm audio jacks for microphone, line in, speaker and line out
- 4MB Serial Flash and 64MB SDRAM
- Expansion port connector for plug-in modules
- On-board standard IEEE JTAG interface
- +5V universal power supply

Software - Designers can readily target both the OMAP-L137 applications processor, C6747, C6745 and C6743 DSPs through TI´s robust and comprehensive Code Composer Studio™ integrated development environment, DSP Link for interprocessor communication, MontaVista Linux Pro 5.0 Tool chain, DSP/BIOS RTOS and DSP/BIOS-based and ARM-Linux-based device drivers as well as the Linux Kernel/Bootloader. The tools, which run on Windows© 98, Windows 2000 and Windows XP, allow developers to seamlessly manage projects of any complexity