

TMS320C6747 Based DSP Trainer Kit [Model : VSK-6747]

The C6747 is a low-power digital signal processor based on C674x DSP core. It consumes significantly lower power than other members of the TMS320C6000™ platform of DSPs.

On-Chip Features:

- * TMS320C674x Fixed/Floating-Point VLIW DSP Core
- * 64 General-Purpose Registers (32 Bit)
- * Six ALU (32-/40-Bit) Functional Units
- * Two Multiply Functional Units
- * Instruction Packing Reduces Code Size
- * All Instructions Conditional
- * Hardware Support for Modulo Loop Operation

Memory:

On-Chip Memory:

- * Two Level Cache Memory Architecture
 - # 32K-Byte L1P Program RAM/Cache
 - # 32K-Byte L1P Data RAM/Cache
 - # 256K-Byte L2 Unified Mapped RAM/Cache
- * 128K-Byte RAM Shared Memory

On-Board Memory:

- * 4 Mbit (512Kb x8 or 256Kb x16, Boot Block) Flash Memory
- * 1 Meg x 16 Bit x 4 Banks Synchronous DRAM for External Program/Data

On-Board Codes:

- * Stereo Audio ADC & DAC
- * 16/20/24/32-Bit Data Format
- * Supports Rates From 8 KHZ to 96 KHZ
- * Programmable Input/Output Analog Gains
- * Audio Serial Data Bus Supports 12S, Left/Right-Justified, DSP, and TDM Modes

On-Board ADC/DAC Add-on card via VSDA Bus:

ADC:

- * No of ADC input : 4 Channels
- * Resolution : 12 Bit
- * Sampling rate : 1 Msps (max)
- * Analog input range : +5V (max)
- * High speed serial interface, SPI compatible.

DAC:

- * No of ADC input : 4 Channels
- * Resolution : 12 Bit
- * Settling time : 8.5 micro sec(max)
- * Analog input range : +5V (max)
- * High speed serial interface, SPI compatible.

On-Board Vi_XDS100 JTAG Emulator:

- * Debug features : Emulation Connect/Disconnect, Read/Write memory, Read registers, Load program, Run, Halt, Step, Software and Hardware Breakpoint support, Real-Time Mode
- * Support for USB Full Speed (12 Mbits/s)



Hardware Features:

- * 8 User definable LED's
- * 8 position DIP switch, user definable
- * Two 3.5 mm. audio jacks (microphone, speaker)
- * Expansion connectors (Memory / Peripheral Interface)
- * Vi Standard (VSDA Bus) SPI/Serial DAC/ADC Connector.

What's Included:

Hardware

- * VSK – 6747 Trainer kit
- * VSDA-04 (ADC/DAC Add-on Card)
- * Microphone, Speaker
- * USB and RS232 Cable
- * AC power Card and power supply +5V
- * VSK 6747 Technical Reference

Software

- * Linear Convolution
- * Circular Convolution
- * Sampling Theorem
- * Waveform Generation
- * DFT and FFT
- * FIR Filter Implementation
- * IIR Filter Implementation
- * CODEC Loop back, voice Storing & Retrieval etc.,

REQUIREMENT

- * Code Composer Studio v3.3 or later with full license.

HEAD OFFICE

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