

# TMS320C5535 eZdsp™ USB Development Kit



## Key features and benefits

- Small form factor DSP development kit for the C5535 processor
- TMS320C5535 fixed-point ultra-low-power DSP
- Embedded XDS100 emulator
- 8-MB serial Flash memory
- TLV320AIC3204 programmable low-power stereo audio codec
- USB 2.0 high speed
- Micro SD card slot with 2-GB micro SD card
- Line in/Mic in, headphone out audio jacks
- Earphone with mic
- 60-pin expansion connector
- 96 × 16-pixel OLED display
- Two push buttons
- Includes Code Composer Studio™ IDE 4.0
- Software framework for USB audio class and HID applications
- Out-of-the-box demo software
- Full documentation with source code on CD-ROM

The TMDX5535eZdsp is a small form factor, very-low-cost USB-powered DSP development kit which includes hardware and software needed to evaluate the C553x generation, which is the industry's lowest-cost and lowest-power 16-bit DSP. This ultra-low-cost kit allows quick and easy evaluation of the advanced capabilities of the C5532, C5533, C5534 and C5535 processors. The kit has an on-board XDS100 emulator for full source-level debug capability and supports Code Composer Studio™ (CCStudio) Integrated

Development Environment (IDE) version 4.0 and eXpressDSP™ software which includes the DSP/BIOS™ kernel. The full contents of the Development Kit include C5535 eZdsp board, CCStudio IDE Rev. 4.0, a headphone with mic, a 2-GB micro SD card, a free software framework for USB audio class and human interface device (HID) applications and an out-of-the-box comprehensive demo for USB audio class applications.

## Technical details

The C5535 eZdsp USB kit simplifies development by providing integrated features including:

- Complete Code Composer Studio v4 IDE for fast code development
- On-board XDS100 v2 emulator provides complete debugging capabilities and visibility inside the processor for algorithm optimization and benchmarking
- On-board audio codec and connectors allow developers to evaluate the C5535 processor and quickly optimize complex DSP algorithms in terms of performance and power consumption across a variety of design scenarios
- Energy-efficient C5535 DSP allows the entire development tool to be powered by the USB port – no other components or cables are needed
- Rich set of features including LCD 96 × 16 monochrome OLED display screen, MicroSD card slot, USB 2.0 port for applications, *Bluetooth*®/Chipcon expansion connector

## Software

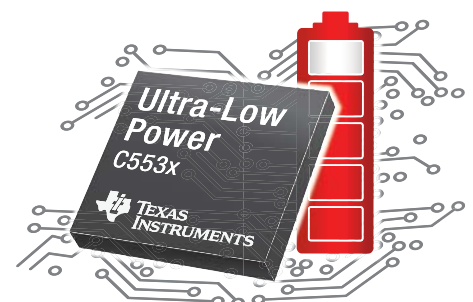
Designers can readily target the TMS320C5532/33/34/35 DSP through TI's robust and comprehensive Code Composer Studio IDE, including:



- A complete Integrated Development Environment, an efficient optimizing C/C++ compiler assembler, linker, debugger, integrated CodeWright editor with CodeSense technology for faster code creation, data visualization, a profiler and a flexible project manager
- DSP/BIOS™ real-time kernel
- Chip Support Library
- Free, integrated software framework for USB audio class and HID applications, including an out-of-the-box demo

## Community support

The eZdsp USB kit is supported by TI's online community [e2e.ti.com](http://e2e.ti.com). Complete collateral, CCStudio IDE drivers, Chip Support Library (CSL) and all the required production-quality



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TI E2E Community Home Page

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