



**THE DATASHEET OF
TMDX5515EZDSP**



TMS320C5515 eZdsp™ USB Stick Development Tool



The TMDX5515eZdsp is a small form factor, very-low-cost USB-powered DSP development tool which includes all the hardware and software needed to evaluate the industry's lowest power 16-bit DSP: the TMS320C5515. This tool is similar to the TMDX5505eZdsp in the form factor but provides more evaluation options such as USB 2.0 and SD interface. The USB port provides enough power to operate the ultra-low-power C5515 DSP so no external power supply is required. This ultra-low-cost tool allows quick and easy evaluation of the advanced capabilities of the C5515, C5514, C5505A and C5504A processors. This tool has an embedded 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 Tool include C5515 eZdsp board CCStudio IDE Rev. 4.0.

Key features and benefits:

- Small form factor DSP development tool for the C5515 processor
- TMS320C5515 fixed-point low-power DSP
- Embedded XDS100 emulator
- Flash memory
- TLV320AIC3204 32-bit programmable low-power stereo codec
- USB and SD connectors
- Line in, headphone out vconnectors
- Expansion connectors
- Removable USB stick enclosure
- Includes Code Composer Studio IDE 4.0
- Full documentation on CD-ROM

Technical details

The C5515 eZdsp USB Stick simplifies development by providing integrated features including:

- Complete Code Composer Studio v4 IDE for fast code development.
- On-board XDS100v2 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 C5515

processor and quickly optimize complex DSP algorithms in terms of performance and power consumption across a variety of design scenarios.

- Energy-efficient C5515 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.

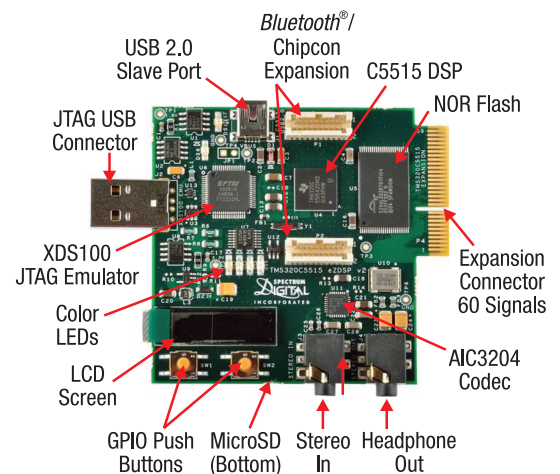
Software

- Designers can readily target the TMS320C5504/05/14/5 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

Community support

The eZdsp USB Stick is supported by TI's online community e2e.ti.com. Complete collateral, CCStudio IDE drivers, Chip Support Library (CSL) and all the required production-quality documentation for the DSP is available today. Complete schematics and layout files are available for the tool at support.spectrumdigital.com/boards/usbstk5515/revA/ so customers can use this as a reference for their own system development.

Various examples in audio/musical special effects, digital filter design and many others



▲ C5515 eZdsp USB Stick development tool

will also be available in the community. Special pricing incentives are available for educators, university students and developers that actively participate in the community.

e2e.ti.com/
code.google.com/p/c5505-ezdsp/

Get started today

The feature-rich C5515 eZdsp™ USB Stick Development Tool (part number: TMDX5515eZdsp) is available now for the low cost of U.S. \$79. Pricing includes full XDS100v2 emulator and the industry-leading CCSStudio v.4 IDE. To order, please visit www.ti.com/c5515ezsp_epf.

The TMS320C551x DSP generation is supported by TI's extensive Developer Network, as well as a complete Chip Support Library, comprehensive application notes, reference designs, application guides, videos and online communities.

TI Worldwide Technical Support

Internet

TI Semiconductor Product Information Center Home Page

support.ti.com

TI E2E™ Community Home Page

e2e.ti.com

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	Internet/Email	support.ti.com/sc/pic/americas.htm

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Fax		+886-2-2378-6808
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Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
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