

USB 2.0 Daughter Card for TI DSP Starter Kits

Benefits

- Reduces time-to-market with integrated hardware/software connectivity solution
- Provides USB communication functionality for Texas Instruments' C5000™ and C6000™ DSKs
- Reduces cost for USB enabled application code development with proven solution
- Increases design flexibility with connectivity to numerous Avnet development boards

Products designed with TI DSPs provide developers a wide range of flexibility to accommodate changing specs. By leveraging DSP programmability, low-power usage and high-processing performance, developers can design differentiated products with customized features to meet changing market needs.

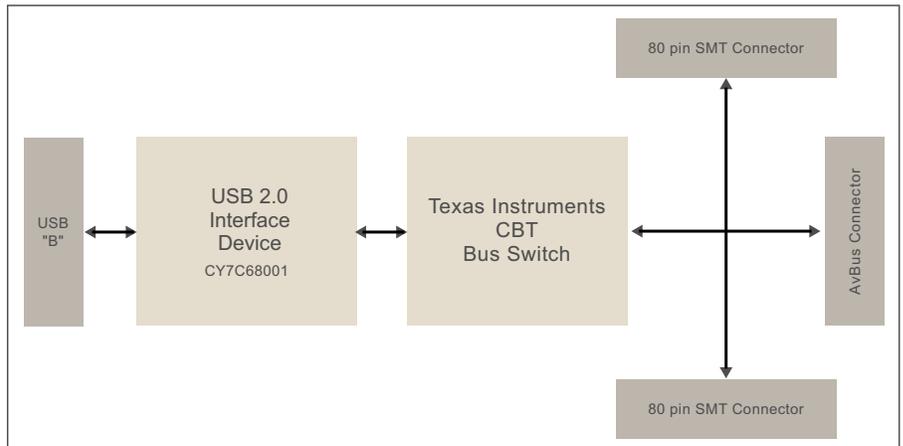
For developers of products requiring a USB 2.0 interface, Avnet has developed a TI DSP-based solution to reduce time-to-market and minimize risk. This solution contains an adapter board that allows the user to interface either a TI TMS320C5000™ or TI TMS320C6000™ DSP Starter Kit (DSK) board or AvBus compatible evaluation or development boards to USB 2.0 and/or to each other. In addition to the daughter board, example software is included to provide a working demonstration of the DSK to USB interface as well as to give the user a starting point for application code.



Target Applications

- Data acquisition systems
- High-speed communication systems
- Volume data transfers

System Example: USB 2.0 Daughter Card for TI DSP Starter Kits



USB 2.0 Daughter Card for TI DSP Starter Kits

Functional Description

Hardware

This kit contains an adapter board that allows the user to interface either a TI C5000 or C6000 DSK (DSP Starter Kit) board or AvBus compatible Evaluation or Development boards to USB 2.0 and/or to each other. Example software is included to provide a working demonstration of the DSK to USB interface as well as to give the user a starting point for application code.

The TI DSK for USB 2.0 Daughter Card is an Avnet Avenue compliant daughter card that incorporates board-to-board connectors to support Avnet Avenue Solutions expansion boards. The connection between the TI DSK for USB 2.0 Daughter Card and other Avnet Avenue compliant daughter boards is via the Avnet standard AvBus connectors.

Kit Includes

- USB 2.0 DSK daughter card
- User's guide
- Schematics
- Bill of materials
- Example interface code (runs on PC)
- Example control code for USB 2.0 device (runs on DSK)
- Gerber files

Component Selection

- TI TMS320C6000™ and TMS320C5000™ DSKs
- Cypress CY7C68001 USB 2.0 Controller
- USB 2.0 data interface (up to 480 Mbps)
- Example code
- High-speed DSP to FPGA interface
- AvBus daughter card compatible

Getting Started – Development Tools

Documentation

TI DSK for USB Daughter Card Product Brief 031804F

Additional documentation and support is available from Avnet Electronics at: customer.care@avnet.com

Contact Information for Questions/Support

To purchase this solution or for more information, please contact Avnet Electronics Marketing at: customer.care@avnet.com

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