DSP/FPGA eNews - June 2010

Miniature H.264 HD Module

Z3 have launched a new multi-media device only 44mm x 67mm, supporting H.264 MP720p, 30 fps encode or decode based on the latest DM365 DaVinci processor from Texas Instruments.

More Information ▶

DM355 System Starter Deal

Z3 are offering, for a limited period, a low cost introduction to their popular DM355 based HD development package Z3-DM355-PROTO. This package comprises Z3-DM355-MOD production ready module, Z3-DM355-APP application board and demonstration HD encoding and decoding programmes.

- Z3-DM355-PROTO
- Z3-DM355-APP
- Z3-DM355-MOD

Xilinx Virtex-6 XMC Module with four 160MSPS, 16-bit A/D Channels

The X6-RX from Innovative Integration is a flexible receiver

that integrates IF digitising with signal processing on an XMC IO Module. The module provides up to 24 configurable receiver channels with a powerful Xilinx Virtex-6 FPGA signal processing core, and high performance PCI Express/PCI host interface. With the X6-RX, IF recorders can log both digitised raw data and baseband channels in real-time, sustaining rates over 2 GB/s.

More Information ▶

Blackfin DSP / Spartan FPGA Microsystem

The BFLANcore board is a micro system based on Analog Devices' Blackfin family. A single BF537 capable of running uCLinux wit Ethernet MAC and onboard PHY in combination with Xilinx Spartan3E FPGA makes up a complete high performance DSP controller board for all sorts of embedded applications. With a size of only 1" x 1.7", the board will fit every embedded platform. High density connectors (.8mm pitch) provide access to 33 general purpose (incl. 11 LVDS pairs) plus a number of DSP I/O signals as well as LAN and JTAG signals for both DSP and FPGA.

More Information ▶

Emulation News - Standalone Flash Programming for C2000

The SDFlash utility is our standalone flash programming utility supporting Texas Instruments F240xA and F28xxx devices with on-chip flash. It gives the user the ability to flash program their application to the target board without the requirement of Code Composer Studio. SDFlash is distributed as a component of the standard Spectrum Digital Emulation driver installations. Device specific flashing algorithms and documentation about the SDFlash utility can be found on our support website **here**.

There is also a command line variation of the programming utility for the F28xxx family of devices with on-chip flash. This is the PROG28x.exe. It calls the SDFlash project file and settings to allow running the programming utility from the command line or from a batch file. This is useful in a production environment. PROG28x.exe is distributed as part of our SDXMLGUI tool. Details about the SDXMLGUI and PROG28x.exe can be found on our support website **here**.

Emulation News - Multiple XDS510 USB Emulators on one Host Computer

Up to 4 XDS510USB JTAG emulators can be used simultaneously on one computer. Since each XDS510USB has a unique ID, the XDS510USB emulation drivers will support multiple connections on one single computer. This has been resourceful for customers who are have requirements to connect and debug more than one target board or programming multiple boards at the same time with only one host computer. A description of how to configure the emulation drivers to support this feature can be found on our website **here**.

This feature is supported using the following emulators:

- XDS510USB JTAG Emulator
- XDS510USB PLUS JTAG Emulator
- XDS510USB Galvanic JTAG Emulator

Emulation News - Windows 7 Support

Texas Instruments Code Composer Studio (CCS) and associated Spectrum Digital emulation/hardware drivers are supported under Windows 7 using CCS version 4.1 and later. Prior releases of CCS (such as 3.3 and 3.1) do not officially support Windows 7. The DSK and EVM Tools versions of Code Composer Studio (CCS) 3.3 and earlier do not support Windows 7. Windows Vista, XP, or 2000 are required to run these tools. If Windows 7 is the only option, then the user may download the Free Version of CCS v4 from the TI website. The Free version of CCS v4 will allow connection to the embedded emulation on the DSK/EVM/eZdsp board with no time limit.

Emulation News - Parallel Port Support

Most new PCs and laptops no longer include a built in parallel port. Spectrum Digital customers who have parallel port emulators or eZdsp boards with parallel port connections may find difficulty in connecting with their new computer that does not have a parallel port. Most parallel port adapters will not work. We have not found any USB or PCI to Parallel port adapters that will support our parallel port tools. Our drivers and the CCS tools require standard LPT1 port addresses of 0x378 or 0x278. The USB or PCI adapters we have seen cannot be configured to use the standard addresses. We have found a PCMCIA to Parallel port adapter, for use with a laptop that will allow the appropriate address range. The manufacturer is Quatech and the part number is SPP-100.