

# News

## DSP, Hardware and Software

MSP offers boards and modules for digital signal processing DSP, single board computers, boards and modules for analog and digital I/O, DSP software libraries and development tools.

You are invited to visit us in Luzern at the

### *Real-Time & Embedded Computing Conference*

Tuesday, September 26, from 09.00 to 17.00  
Hotel Schweizerhof Luzern  
Schweizerhofquai 3  
6002 Luzern

Please see the included invitation leaflet for more details. MSP runs an exhibition stand and will present hardware and software. The exhibition and the conference are free of charge.

### *TMS320DM642 DSP Based Computer Module*

The **D.Module2.DM642** is a high-performance, stand-alone DSP board for video and image processing, and other demanding applications:

- 5760 MMACS peak, 720 MHz Texas Instruments TMS320DM642 fixed-point DSP
- 64 MB SDRAM, 8 MB Flash
- 533MB/s parallel bus
- Three 80MHz video ports, also excellent for A/D and D/A converters
- USB2.0 interface
- Dual UART with RS232 and RS422/485 interface
- 10Base-T/100Base-TX Ethernet Controller
- 3.3V single-supply, Supervisor and Watchdog
- D.Module.BIOS and Setup Utility



## ***XDS560 Class USB JTAG Emulator***

The new Spectrum Digital XDS560R USB JTAG emulator provides a USB 2.0 based mechanism to develop and debug software for Texas Instrument's processors with JTAG interface (F28xx, C54xx, C55xx, C6xxx, TMS470 ARM, OMAP, DaVinci), and +1.0 to +5.0 volt JTAG voltage levels. Based on the next generation emulation processor (currently running at 600 MHz) the XDS560R supports DSP BIOS and High Speed RTDX for quicker debug and time to market.

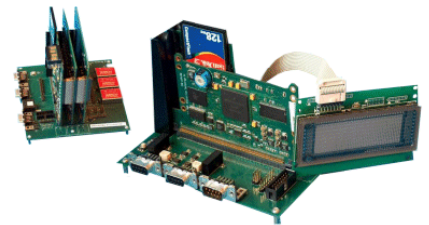
Its modular JTAG cable assembly is engineered to accommodate current and future JTAG pin configurations without having to purchase a new emulator. Currently available are a DaVinci ready 20-pin CTI header and a 14-pin header. In addition the XDS560R has a programmable modular emulation backend (FPGA) for future emulation technology.

The XDS560R USB JTAG emulator is compatible with the TI XDS560. Software drivers for TI's Code Composer Studio are provided with the emulator (updates available from [www.spectrumdigital.com](http://www.spectrumdigital.com)).



## ***Modular Low Power Data Acquisition System***

The **lpDAS** is a low power, small size 16-bit/ 250kHz data acquisition system with storage capabilities and various communication interfaces, suitable for active control, process monitoring and data logging applications. lpDAS is built with up to 4 boards in a backplane, based on the PCI-bus, and can be configured to your needs with different types of I/O. The lpDAS has a 400MHz MP5200 PowerPC processor, 256MB SDRAM, 64MB Flash, a CF card slot, 100Mbit Ethernet, RS232, 2x RS422 receiver, 6x ARINC receiver, 2x CAN optically isolated, 16 AD inputs and 16 DA channels, programmable input filters, and 8k FIFO's for AD/DA. lpDAS comes with an OS-less software support for the GNU development environment. Standard PMC cards can be added into lpDAS, which makes it even more flexible.



## ***Intel Core Duo VME64x/VXS Single Board Computer***

The **VX 405/04x** is a PC-compatible high performance VME64x/VXS board with passively cooled **2.0 or 1.66 GHz Intel Core Duo** processor. The board features up to 4 GB of soldered SDRAM, Intel 945GM based graphics with up to 2048x1536 resolution, 64bit/66MHz PMC with XMC, three channels of Gigabit Ethernet (2x on P2 or on P0 for VITA 41.3 VXS backplanes), 2 serial ports, 5 USB 2.0 ports, an EIDE interface for on-board or off-board disk, Serial ATA150 interface, AC'97 audio and 1MB of Flash EPROM. The board supports Linux, Windows 2000/XP/XPEmbedded, VxWorks, QNX. **The VX 405/04x is also available in extended temperature versions.**



## ***Intel Core Duo Dual PMC CompactPCI Single Board Computer***

The **PP 410/03x** is a passively cooled single board computer with either **2.0 or 1.66 GHz Intel Core Duo** processor, the **Intel E7520** server class chipset and up to 4 GB SDRAM. A PP 410/03x will operate as a 32/64 bit, 33/66 MHz CompactPCI slot controller, as a peripheral board or as a satellite board (blade), all with hot-swap capability. The board's I/O capability includes dual EIDE ATA100 with optional on-board disk and dual Serial ATA150 interfaces, dual 64bit/66MHz PMC sites (site 2 with 100MHz PCI-X and XMC PCI Express capabilities), three Gigabit Ethernet channels, PICMG 2.16 ("Backplane Ethernet"), PICMG 2.9 (IPMI), 2 serial ports, 4 USB 2.0 ports, graphics and AC'97 audio. Operating systems supported include Linux, Windows 2000/XP/XPEmbedded/Server2003, QNX and VxWorks.