



Product news

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FTDI showcases USB 2.0 Hi-Speed devices and modules at National Electronics Week 2009

29th April 2009 – Future Technology Devices International Limited (FTDI) announced today that it will showcase its recently launched range of USB 2.0 Hi-Speed devices and development modules at National Electronics Week. These are the 5th generation of USB to UART/FIFO devices developed by the company and the ICs now offer support for applications requiring USB 2.0 480 Mb/s (Hi-Speed) interfaces.

New ICs

The FT2232H is a dual channel device allowing one USB port to connect to two separate interfaces without a USB hub chip. Each channel may be independently configured to support UART, FIFO (synchronous and asynchronous) or, by using the Multi Purpose Synchronous Serial Engine (MPSSE), USB to I2C, SPI, JTAG or other clocked serial interfaces. Also available are MCU Emulation and bitbang modes.

The FT4232H is a quad channel device allowing one USB port to connect to four separate interfaces without a USB hub chip. Each channel may be independently configured to support UART, FIFO (asynchronous) or, by using the Multi Purpose Synchronous Serial Engine (MPSSE – available on 2 of the channels), USB to I2C,

SPI, JTAG or other clocked serial interfaces. Also available are MCU Emulation and bitbang modes.

Both devices support UART transfer rates up to 12MBaud and asynchronous FIFO speeds up to 10Mbyte/s. The synchronous FIFO mode (FT2232H only) will reach speeds up to 25Mbyte/s and the MPSSE channels have improved on the previous chip (FT2232D) speeds of 5.6Mbit/s to be capable of 30Mbit/s.

New Modules

Two evaluation modules are available that ease the development of projects using these new ICs. The FT2232H Hi-Speed Mini-Module and the FT4232H Mini-Module each have one chip with a USB mini connector and two 26 way (2 rows 0.1" pitch) male header pins to allow access to all pins of the devices. Dimensions are 36mm (L) x 30mm (W) x 12mm (H – including connector pins).

The modules are aimed at developers wishing to evaluate the devices and develop application code but without the need to create their own PCB designs. They can be powered from the USB host port or a separate power supply.

Drivers

As with previous generations of FTDI ICs, comprehensive and free driver support is offered for most industry standard operating systems such as Windows, Linux and MAC OSX. This allows developers to focus on their end application rather than spending additional time developing drivers.

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About FTDI

Future Technology Devices International (FTDI) specialise in the design and supply of silicon and software solutions for the Universal Serial Bus (USB). FTDI offer a simple route to USB migration by combining easy to implement IC devices with proven, ready to use, royalty-free USB firmware and driver software. The company's single and multi-channel USB peripheral devices come with an easy to use UART or FIFO interface. These popular devices can be used in legacy USB to RS232/RS422 converter applications or to quickly interface an MCU, PLD, or FPGA to USB. A wide range of evaluation kits and modules are available to evaluate FTDI's silicon prior to design-in.

Vinculum is FTDI's brand name for a range of USB Host / Slave Controller ICs that provide easy implementation of USB host controller functionality within products, and utilise FTDI's tried and tested embedded firmware to significantly reduce development costs and time to market.

FTDI is a fabless semiconductor company headquartered in Glasgow, UK, and has regional offices in Oregon, USA, and Taipei, Taiwan. More information is available at <http://www.ftdichip.com>