Product news

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Single chip Hi-speed USB 2.0 solutions ease serial and parallel interfacing

11th November 2008 – Future Technology Devices International Limited (FTDI) announced today the availability of their 5th generation of USB to UART/FIFO ICs. The two new devices support the 480 Mb/s USB 2.0 Hi-Speed specification. The FT2232H and FT4232H devices have the capability of being configured in a variety of industry standard serial or parallel interfaces such as UART or FIFO.

The FT4232H offers four configurable interfaces and the FT2232H two configurable interfaces. Two of the FT4232H's interfaces and both of the FT2232H's interfaces can be configured as UART, JTAG, SPI, I2C or bitbang mode serial interfaces with independent baud rate generators. The additional two interfaces of the FT4232H offer UART or bitbang options. In addition, the FT2232H can be configured as a dual FT245 FIFO, a host bus emulation mode, a CPU interface FIFO mode or a fast opto-isolated serial interface mode.

Both devices support a data transfer rate up to 12 Mbaud when configured as an RS232/RS422/RS485 UART interface and > 25 Mbytes/second over a parallel FIFO interface (FT2232H only).

A USB protocol engine controls the physical Universal Transceiver Macrocell Interface (UTMI) and handles all aspects of the USB 2.0 Hi-Speed interface. Both ICs integrate a Low Drop-Out (LDO) regulator, an internal 12MHz to 480MHz PLL and interface to an external EEPROM.

These devices integrate the entire USB protocol on a single chip and provide extremely flexible interface configuration options. They provide a flexible method of interfacing to FPGAs and microcontrollers as well as upgrading legacy designs to accommodate USB communication.

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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 with headquarters in Glasgow, UK, a research and development office in Singapore and regional offices in Oregon, USA, and Taipei, Taiwan. More information is available at http://www.ftdichip.com