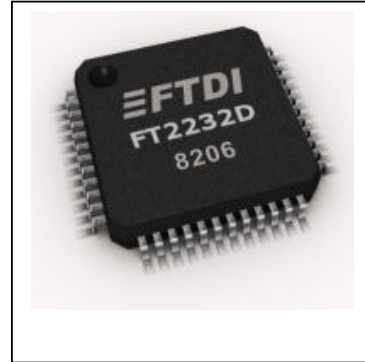
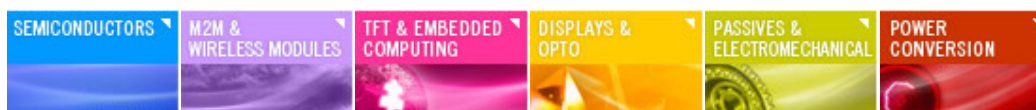


Key Hardware Features

- Single chip USB <=> dual channel serial/parallel ports with a variety of configurations
- Entire USB protocol handled on the chip: no USB-specific firmware programming required
- FT232B-style UART interface option with full handshaking & modem interface signals
- UART interface supports 7/8 data bits, 1/2 stop bits and Odd/Even/Mark/Space/No Parity
- Data transfer rate of 300 Baud => 1M Baud (RS232)
- Data transfer rate of 300 Baud => 3M Baud (TTL and RS422/RS485)
- Auto transmit enable control for RS485 serial applications using TXDEN pin
- In-built support for event characters and line break condition
- Transmit and receive LED drive signals on each channel
- FT245B-style FIFO interface option with bi-directional data bus and simple 4-wire handshaking interface
- Data transfer rate up to 1M Byte/second (Parallel FIFO)
- Enhanced Bit-Bang Mode interface option with RD# and WR# strobes
- New Synchronous Bit-Bang Mode interface option
- New Multi-Protocol Synchronous Serial Engine (MPSSE) interface option
- New CPU-style FIFO interface mode option (**FT2232D only**)
- New MCU Host Bus Emulation Mode option
- New Fast Opto-Isolated Serial Interface Mode option
- High I/O pin output drive option
- Interface mode and USB description strings configurable in external EEPROM
- EEPROM configurable on-board via USB
- Support for USB suspend and resume conditions via PWREN# and SI/WU pins
- Support for bus powered, self powered and high-power bus powered USB configurations
- Integrated Power-On-Reset circuit with optional reset input and reset output pins





- 5V and 3.3V logic IO interfacing with independent level conversion on each channel
- Integrated 3.3V LDO regulator for USB IO
- Integrated 6MHz - 48Mhz clock multiplier PLL
- USB Bulk data transfer modes
- 4.35V to 5.25V single supply operating voltage range
- Low operating and USB suspend current
- UHCI/OHCI/EHCI host controller compatible
- USB 2.0 Full Speed (12M bits/second) compatible
- Extended -40°C to 85°C industrial operating temperature range (**FT2232D only**)
- Compact 48-LD lead free LQFP package (RoHS compliant)
- FTDI's royalty-free **VCP** and **D2XX** drivers eliminate the requirement for USB driver development in most cases
- Dedicated Windows DLLs available for **USB to JTAG**, **USB to SPI** and **USB to I2C** applications

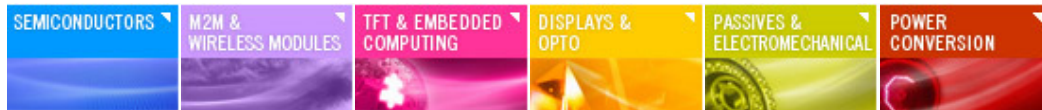
▶ Application Areas

- USB to Dual Port RS232 Converters
- USB to Dual Port RS422/RS485 Converters
- Upgrading Legacy Peripheral Designs to USB
- USB Instrumentation
- USB JTAG Programming
- USB to SPI Bus Interfaces
- USB Industrial Control



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- Field Upgradeable USB Products
- Galvanically Isolated Products with USB Interface
- USB to synchronous serial interface
- Cellular and cordless phone USB data transfer cables and interfaces.
- Interfacing MCU/PLD/FPGA based designs to USB
- USB Audio and Low Bandwidth Video data transfer
- PDA to USB data transfer
- USB Smart Card Readers
- USB Instrumentation
- USB Industrial Control
- USB MP3 Player Interface
- USB FLASH Card Readers/Writers
- Set Top Box PC - USB interface
- USB Digital Camera Interface
- USB Bar Code Readers



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