

FT4233H Hi-Speed USB Bridge with Type-C/PD Controller

The FT4233H is FTDI's first Hi-Speed USB device with a Type-C controller that fully supports the latest USB Type-C and Power Delivery standards enabling support for power negotiation with the ability to sink or source current to a USB host device. The Type-C/PD controller supports 2 Type-C ports, with PD1 configurable as a power sink or dual role, and PD2 functioning as power sink, suitable in charging applications. The USB bridge function delivers 4 independent channels comparable with the FT4232H – Quad Hi-speed USB to multipurpose UART/MPSSE solution. The FT4233H will soon be available in Pb-free (RoHS compliant) 76-pin QFN packages.

Features

- USB Power Delivery (PD) Controller
 - Support PD specification Rev 3.0.
 - Port1 mode configuration for Sink or Dual-role, supporting Fast Role Swap
 - Port2 works as Sink
 - Support 5V, 9V, 15V and 20V PDOs as sink or source
 - Physical Layer Protocol
 - BOS descriptors for PD capability
 - Configurable at boot with EEPROM
 - Support external MCU control through I2C interface
- USB Type-C Controller
 - Support Type-C specification Release 1.3
 - Detect USB cable attach/detach
 - Cable orientation and role detection
 - Advertise default, 1.5A or 3A VBUS current for 5V Type-C power
- USB to Multi-purpose UART/MPSSE bridge
 - Fully compatible to FT4232H
 - USB to quad serial ports with a variety of configurations
 - Entire USB protocol handled on the chip. No firmware programming required.

