USB Dongle

USBD-dddd

USB Dongle and Derivative Board

The USB Dongle and Derivative Board allows quick and easy ICP or ISP programming of many popular NXP Semiconductors microcontroller families such as the LPC9xx, ARM7 LPC2xxx and 89V52X2. The unit also provides a low cost platform for testing or prototyping of simple microcontroller based designs. The USB Dongle provides a Virtual COM Port interface to the PC and allows hex files to be downloaded and programmed using Flash Magic or other common utilities. The USB Dongle provides all power needed by the various Derivative Boards so no external power supply is required. Low cost Derivative Boards are available for many different microcontrollers from NXP, please consult our website for details.

Highlights

- Low cost tool for prototyping

- Supports many NXP microcontrollers

- USB port powered so no external Power Supply required

- Supports USB 2.0

- Plugs directly into any standard USB Port – great for laptops

- Works with NXP free Flash Magic software that can be downloaded from the web

- USBD Kit Includes:

  ♦ USB Dongle

  ♦ Derivative Board for one particular device or sub family

  ♦ Download docs and software examples at

  www.teamfdi.com/USBD

The USB-Dongle uses a standard USB connector to interface to the USB port on any PC.
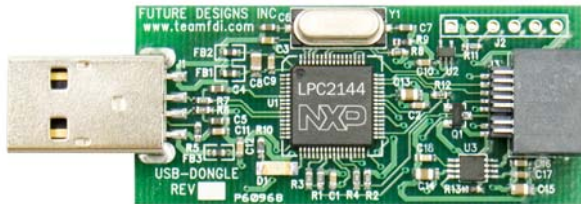
Indicator LED
Slow Blinking – Error
Fast Blinking – Activity
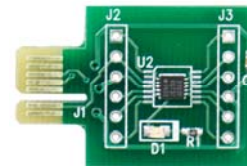On Steady - Ready

Target Interface

The USB-Dongle includes a 16 pin connector to the Derivative Board that utilizes the following signals:

Ground	3V (unswitched)
Switched Power (3V for ICP)	Reset (High ot Low true)
Ground	3V (unswitched)
PCL/SCL (ICP/I2C)	PDA/SDA (ICP/I2C)
TXD (UART)	RXD (UART)
MSIO (SPI)	PSEN/P0.14 (ISP entry)
SCLK (SPI)	MOSI (SPI)

USB Dongle Board

Derivative Boards

Ordering Information

Part Number: USBD-dddd (see chart)
Price: $15.00 (USD)
Order Online Now at www.teamfdi.com
OR www.digikey.com
Digi-Key P/N: xxx-xxxx-ND
NXP Semi: OMxxxx

Warranty: 30-day money back guarantee
Availability: Stock

(800) 278-0293 Phone
(256) 883-1241 FAX
E-mail: sales@teamfdi.com
www.teamfdi.com

USB Dongle and Derivative Family	
Part Number	**Supported Device(s)**
USBD-89V52X2	P89V52X2
USBD-LPC910x	P89LPC9103 P89LPC9107
USBD-LPC210x	ARM7 LPC2104 ARM7 LPC2105 ARM7 LPC2106

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