

Technical Details

The **DB-TQFP44-89V52X2** uses a PCB edge finger connector to interface to the USB-Dongle.



Board Dimensions 2.103" x 1.25"

Target Interface

The USB-Dongle includes a 14 pin connector to the Derivative Board that utilizes the following signals. Not all signals are used on all Derivative Boards:

ISP/ICPn	5V (USB power, unswitched)
Switched Power (3V for ICP) or Reset (High True for 8051 ISP)	Reset (Low True) (for ICP & LPC2000 ARM)
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)

Example of USB-Dongle and Derivative Board

USB-Dongle



DB-HVSON10-LPC9103

Headers – The **DB-TQFP44-89V52X2** brings every pin of the microcontroller out to a standard 0.10" spacing header footprint for easy probing of signals or to support prototyping or wire-wrapping. Consult the **DB-TQFP44-89V52X2** schematic if there are any questions about pin alignment from the microcontroller to the headers.

Power – The USB-Dongle provides the regulated 3.3V power required by the **DB-TQFP44-89V52X2**. The DB has a power measurement jumper, JP1, to allow the user to easily measure the power consumption of the microcontroller. In the artwork, JP1 pin 1 is shorted to pin 2 so the board is continuously powered. The board can be easily modified by cutting JP1 and loading a standard 0.10" header.

LED - A green activity or status LED is provided at location D1 on the Derivative Board. This LED can be used to indicate when the microcontroller is being programmed or for other types of user activity under software control.

Crystal or Clock Frequency - The **DB-TQFP44-89V52X2** is clocked by an external 11.0592 MHz crystal oscillator located at position Y1 on the DB.

Ordering Information

Order Online at www.digikey.com
Digi-Key Part #: 622-1012-ND
Availability: Stock
Digi-Key Contact Info:
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(218) 681-3380 FAX

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