DB-LQFP48-LPC2103







The **DB-LQFP48-LPC2103** is the Derivative Board for the LPC2103 microcontroller in a 48 pin LQFP package. The **DB-LQFP48-LPC2103** requires the use of the USB-Dongle for power and a programming interface.

The USB-Dongle and **DB-LQFP48-LPC2103** allow quick and easy ICP programming of the LPC2103. 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 at www.teamfdi.com

Highlights

- Low cost tool for prototyping
- 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

- USB-Dongle Kit Includes:
 - ♦ USB-Dongle
 - Download docs and software examples at

www.teamfdi.com/USBDongle

 Derivative Boards for many microcontrollers are available

Technical Details

The DB-LQFP48-LPC2103 uses a PCB edge finger connector to interface to the USB-Dongle.



Board Dimensions 2.268" x 1.5"

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 (Low True)
Reset (High True for 8051 ISP)	(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



DB-HVSON10-LPC9103

Headers – The **DB-LQFP48-LPC2103** 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-LQFP48-LPC2103** 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-LQFP48-LPC2103** and an onboard LDO, U3, provides the regulated 1.8V. 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-LQFP48-LPC2103** is clocked by an external 12.000 MHz crystal oscillator located at position Y1 on the DB.



Order Online at:

www.mouser.com

Availability: Stock

FDI Contact Info: (800) 278-0293 Phone (256) 883-1241 FAX E-mail: <u>sales@teamfdi.com</u> <u>www.teamfdi.com</u>



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Sockets & Adapters category:

Click to view products by FDI manufacturer:

Other Similar products are found below :

 6508-0-00-01-00-00-33-0
 AC164341
 AC164348
 1262
 22827
 AC164353
 TDGL015
 ATF15XXDK3-SAA100
 SA247
 SM64TQ-ACTEL-1

 70-0036
 DS91230+
 SMPA-ISP-ACTEL-3-KIT
 16017
 KIT 70601-3
 SM132CQ-ACTEL
 IPC0181
 IPC0175
 IPC0165
 AC164397
 conga

 Thin MITX/eDP to DP Adapter
 ML-ADP-EVN
 ASA.01
 ASA.09
 ASA.12
 ASA.14
 MIKROE-425
 C305000ACP2
 110-83-320-41-605101

 110-83-632-41-605101
 110-83-640-41-605101
 110-83-628-41-605101
 116-83-306-41-001101
 PA0003
 PA0007
 PA0009
 PA0035
 PA0085

 PA0096
 IPC0079
 ATARD-DBGADPT
 80-000286
 ATSTK600-RC88
 ATSTK600-RC78
 SPC560PADPT64S
 AC164345

 AC164342
 14-351000-11-RC
 966927-1