



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



PIC32 GUI Development Board with Projected Capacitive (PCAP) Touch Information Sheet

Thank you for purchasing a PIC32 GUI Development Board with Projected Capacitive (PCAP) Touch, also referred to as the *PCAP Board*. This information sheet provides some important details that will help you successfully use the board as quickly as possible.

Additional information can be accessed at: <http://www.microchip.com>

Basic Requirements

The PCAP Board is a stand-alone solution that does not require a starter kit or a plug-in module (PIM) to run. The board uses a PIC32MX795F512L microcontroller to control the LCD using Low-Cost Controllerless (LCC) graphics. A capacitive sensing MTCH6301 microcontroller is also on the board to handle the PCAP sensing. The board uses a separate sensor for PCAP that is attached to the LCD.

As an alternate PCAP sensing method, an additional header (J6) on the board enables the use of an LCD with built-in PCAP sensing. It is assumed that an I²C interface will be used for communications. In this case, a driver would need to be added to the software to support this change.

For more information about LCC Graphics visit: <http://www.microchip.com/LCC>

Getting Started

To get started with the PCAP Board, follow these steps:

1. Ensure that MPLAB[®] IDE is installed.
2. Download a project file for the PCAP board from the Microchip website.
3. Power the PCAP board using a USB cable.
4. Connect a debugger/programmer using the PICKit[™] header, J2.
5. Using MPLAB IDE, open the project that was previously downloaded.
6. Select a debugger/programmer in MPLAB IDE.
7. Click **Build**. This builds the downloaded project.
8. Click **Program all memories**.
9. Click **Run**.

Your PCAP Board should now be up and running. On the main screen, which will have a white background, there are icons of demonstrations to choose. These demonstrations showcase some of the features of LCC and the multi-touch features of PCAP.

Americas

Atlanta - 678-957-9614
Boston - 774-760-0087
Chicago - 630-285-0071
Cleveland - 216-447-0464
Dallas - 972-818-7423
Detroit - 248-538-2250
Indianapolis - 317-773-8323
Los Angeles - 949-462-9523
Phoenix - 480-792-7200
Santa Clara - 408-961-6444
Toronto - 905-673-0699

Europe

Austria - Wels - 43-7242-2244-39
Denmark - Copenhagen - 45-4450-2828
France - Paris - 33-1-69-53-63-20
Germany - Munich - 49-89-627-144-0
Italy - Milan - 39-0331-742611
Netherlands - Drunen - 31-416-690399
Spain - Madrid - 34-91-708-08-90
UK - Wokingham - 44-118-921-5869

Asia/Pacific

Australia - Sydney - 61-2-9868-6733
China - Beijing - 86-10-8569-2100
China - Chengdu - 86-28-8665-5511
China - Chongqing - 86-23-8980-9588

Asia/Pacific (Continued)

China - Hangzhou - 86-571-2819-3187
China - Hong Kong SAR - 852-2401-1200
China - Nanjing - 86-25-8473-2460
China - Qingdao - 86-532-8502-7355
China - Shanghai - 86-21-5407-5533
China - Shenyang - 86-24-2334-2829
China - Shenzhen - 86-755-8203-2660
China - Wuhan - 86-27-5980-5300
China - Xiamen - 86-592-2388138
China - Xian - 86-29-8833-7252
China - Zhuhai - 86-756-3210040
India - Bangalore - 91-80-3090-4444
India - New Delhi - 91-11-4160-8631
India - Pune - 91-20-2566-1512
Japan - Osaka - 81-66-152-7160
Japan - Yokohama - 81-45-471-6166
Korea - Daegu - 82-53-744-4301
Korea - Seoul - 82-2-554-7200
Malaysia - Kuala Lumpur - 60-3-6201-9857
Malaysia - Penang - 60-4-227-8870
Philippines - Manila - 63-2-634-9065
Singapore - 65-6334-8870
Taiwan - Hsin Chu - 886-3-5778-366
Taiwan - Kaohsiung - 886-7-536-4818
Taiwan - Taipei - 886-2-2500-6610
Thailand - Bangkok - 66-2-694-1351

11/29/11



Microchip Technology Inc. • 2355 West Chandler Blvd. • Chandler, AZ 85224-6199

www.microchip.com

The Microchip name and logo, the Microchip logo, and MPLAB are registered trademarks of Microchip Technology Incorporated in the U.S.A. and other countries. All other trademarks mentioned herein are property of their respective companies. © 2012, Microchip Technology Incorporated, Printed in the U.S.A. All Rights Reserved. 11/11

DS52089B



