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
Kokomo - 765-864-8360
Los Angeles - 949-462-9523
Phoenix - 480-792-7200
Santa Clara - 408-961-6444
Toronto - 905-673-0699

Asia/Pacific

China - Beijing - 86-10-8528-2100
China - Chengdu - 86-28-8665-5511
China - Chongqing - 86-23-8980-9588
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 - Shenyang - 86-24-2334-2829
China - Shenyang - 86-27-5980-5300
China - Wuhan - 86-75-980-5300
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

Australia - Sydney - 61-2-9868-6733

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

India - Pune - 91-20-2566-1512

Malaysia - Penang - 60-4-227-8870 Philippines - Manila - 63-2-634-9065 Singapore - 65-6334-8870

Taiwan - Hsin Chu - 886-3-6578-300 Taiwan - Kaohsiung - 886-7-213-7830 Taiwan - Taipei - 886-2-2500-6610 Thailand - Banqkok - 66-2-694-1351

Europe

Austria - Weis - 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

08/04/10



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.

© 2010, Microchip Technology Incorporated, Printed in the U.S.A. All Rights Reserved. 08/10

DS51928A

PIC32 mTouch™ Capacitive Touch Evaluation Board Information Sheet

The PIC32 mTouch™ Capacitive Touch Evaluation Board (PN: AC323026) is designed to facilitate the development of capacitive touch-based applications using PIC32-series microcontrollers. This evaluation board includes an on-board PICkit™ serial interface, an ICSP™ header, a USB connector (for power only) and a 16-bit LED display. The board also includes a 24-pin header that can be used to interface the 2-channel and 4-channel slider plug-in boards, the 12-matrix key plug-in board and the 8-direct key plug-in board. These plug-in boards are included in the mTouch Capacitive Touch Evaluation Kit (purchased separately, PN: DM183026-2).

Getting Started

Everything you need to get started can be found at http://www.microchip.com/mtouch. From the *Related Pages* menu, click **Buttons, Keys & Sliders** and click the **Getting Started** tab. From the resulting page, click **Featured mTouch™ Evaluation Kit**.

Installing MPLAB IDE and C Compilers

MPLAB® Integrated Development Environment (IDE) should be installed prior to using the PIC32 mTouch Capacitive Touch Evaluation Board. While MPLAB provides the assembler tools for development, most of the code examples are written in C language and require a C compiler to be installed. Microchip's MPLAB C compiler seamlessly integrates into MPLAB IDE. Both the MPLAB IDE and C Compiler are free (see the note below) and are available for download at http://www.microchip.com/compilers, respectively.

Note: Standard Evaluation (Free) – All optimization levels are enabled for 60 days, but then revert to optimization level 1 only.

Code Examples and More Information

For code examples and more information, please visit the Enhanced mTouch Capacitive Touch Evaluation Kit page at: http://www.microchip.com/mtouch. From the *Related Pages* menu, click **Buttons**, **Keys & Sliders** and click the **Getting Started** tab. From the resulting page, click **Featured mTouch™ Evaluation Kit**. In the downloads section, select **PIC32 Capacitive Touch Evaluation Kit Software**.

Running and Debugging Applications

After downloading the code example and installing the development tools, please use the following procedure to build, run, and debug your software:

- 1. Load the desired code example into MPLAB by double-clicking the * .mcp project file.
- Connect the appropriate plug-in board to the 24-pin connector of the evaluation board. Make sure that plug-in board pins numbers are aligned with the pin numbers on the evaluation board.
- 3. Connect the evaluation board ICSP header to a MPLAB In-Circuit Debugger/Emulator. Alternatively, a PICkit™ 3 may be connected to the PICkit serial port on the evaluation board. An adapter (PN: AC164110), will be required to interface the ICSP header on the evaluation board with a MPLAB In-Circuit Debugger/Emulator. This adapter can be purchased from microchipDIRECT at: www.microchipdirect.com.
- 4. Connect the USB port on the evaluation board to a USB port on the development computer using a USB cable.
- Choose the appropriate debugger/emulator tool in MPLAB IDE by selecting Debugger > Select Tool.
- 6. Build the project by selecting Project > Build All.
- Download your code into the evaluation board microcontroller by selecting <u>Debugger</u> > Program.
- Run the application previously downloaded by selecting *Debugger* > *Run*.
- Touching the appropriate keys on the plug-in board will cause the LEDs on the evaluation board to respond as programmed previously.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Touch Sensor Development Tools category:

Click to view products by Microchip manufacturer:

Other Similar products are found below:

ATMXT1066T2-DEV-PCB ATMXT336UDEVPCB ATMXT641TDAT-I2C-PCB 1374 MIKROE-1906 1602 SEN0164 1982 STEVAL-PCC009V3 ATSAMD20-QTRDEMO ATQT2-XPRO ATQT6-XPRO 2340 DM160221 DM160229 DM160222 ATQT5-XPRO DFR0129 SEN0170 SLEXP8019A SLEXP8018A 1375 DFR0386 SEN0186 SEN0148 DK-000013-03 ROB0103 cs-useful-01 DFR0385 SEN0184 SX8651EVKA 1362 1580 2024 3575 4830 AS8579-TS_EK_DB ATQT600 IQS227/228ASEV01 SKU-6515 CY3280-MBR2 CY3280-MBR3 DFR0030 DM160219 AC160219 AC320007 ATEVK-MXT1066T2-A ATEVK-MXT1189TAT-C ATEVK-MXT1189TDAT-A ATEVK-MXT1665TAT-C