



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



# Microstick for dsPIC33F and PIC24H Devices

## Overview

The Microstick for dsPIC33F and PIC24H devices is designed to provide an easy to use, economical development environment for 16-bit digital signal controllers and microcontrollers. The board includes an integrated debugger/programmer, a socket for the device under test and pins that facilitate insertion into a prototyping board for extremely flexible development.

Please check <http://www.microchip.com/microstick> for the list of supported devices.

## Getting Started

Everything you need to get started can be found at <http://www.microchip.com/microstick>.

## Installing MPLAB® IDE and C Compilers

MPLAB Integrated Development Environment (IDE) should be installed prior to using Microstick for dsPIC33F and PIC24H Devices. This board is designed to run with MPLAB IDE version 8.50 or later. While MPLAB IDE provides assembler tools for development, most of the code examples provided for Microchip devices 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<sup>(1)</sup> and available for download at: <http://www.microchip.com/MPLAB>.

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

## Code Examples and More Information

For code examples and more information, please visit the *Microstick for dsPIC33F and PIC24H Devices* product page at: <http://www.microchip.com/microstick>

## 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 code example into MPLAB IDE by double clicking the \*.mcpw project file.
2. Inform MPLAB IDE what device is plugged in to the Microstick Board by selecting the appropriate device from the *Configure>Select Device>Device* menu.
3. Build the project by selecting *Project>Build All*.
4. Connect the Microstick Board to the development computer via a USB cable.
5. Enable the MPLAB IDE debugger by selecting *Debugger>Select Tool>Starter Kits*.
6. Download your code into a device on the Microstick Board by selecting *Debugger>Program*.
7. Run the application previously downloaded by selecting *Debugger>Run*.
8. For more information on building, running and debugging your application,

Americas	Asia/Pacific	Europe
Atlanta - 678-957-9614	Australia - Sydney - 61-2-9868-6733	Austria - Weis - 43-7242-2244-39
Boston - 774-760-0087	China - Beijing - 86-10-8528-2100	Denmark - Copenhagen - 45-4450-2828
Chicago - 630-285-0071	China - Chengdu - 86-28-8665-5511	France - Paris - 33-1-69-53-63-20
Cleveland - 216-447-0464	China - Chongqing - 86-23-8980-9588	Germany - Munich - 49-89-627-144-0
Dallas - 972-818-7423	China - Hong Kong SAR - 852-2401-1200	Italy - Milan - 39-0331-742611
Detroit - 248-538-2250	China - Nanjing - 86-25-8473-2460	Netherlands - Drunen - 31-416-690399
Kokomo - 765-864-8360	China - Qingdao - 86-532-8502-7355	Spain - Madrid - 34-91-708-08-90
Los Angeles - 949-462-9523	China - Shanghai - 86-21-5407-5533	UK - Wokingham - 44-118-921-5869
Phoenix - 480-792-7200	China - Shenyang - 86-24-2334-2829	
Santa Clara - 408-961-6444	China - Shenzhen - 86-755-8203-2660	
Toronto - 905-673-0699	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 - 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 - 886-3-6578-300	
	Taiwan - Kaohsiung - 886-7-536-4818	
	Taiwan - Taipei - 886-2-2500-6610	
	Thailand - Bangkok - 66-2-694-1351	

01/05/10



**MICROCHIP**

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

[www.microchip.com](http://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. 04/10

DS51897B

# Microstick for dsPIC33F and PIC24H Devices

## Board Schematic

