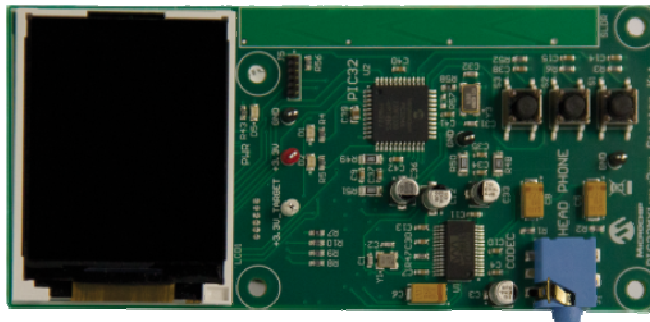




**Part Number :       DM320013**

**MPLAB Starter Kit for PIC32MX1XX/2XX**



The PIC32 MX1/ MX2 Starter kit (DM320013) is a complete solution for exploring the low-cost, high-performance PIC32MX1/MX2 devices. This kit is perfect for development of basic user interfaces with mTouch™ buttons and high quality audio. The board is pre-loaded with demo code for an audio player. Simply download a free copy of MPLAB IDE and the demo code source from the web to jump start your development effort.

**Features include:**

- 24Bit Audio playback
- Integrated Programmer Debugger
- USB Powered
- 2" Color TFT Display – 220 x 176 pixel
- mTouch™ slider and buttons
- PIC32MX220F032 with 32KB of Flash, 8KB RAM
- Micro SD Flash Card

## PIC32MX1XX/2XX Starter Kit Information Sheet

The PIC32MX1XX/2XX Starter Kit (DM320013) provides a low-cost method for the development and testing of audio and touch-based applications with PIC32 devices. This board features a codec with an I<sup>2</sup>S interface, a touch slider with a CTMU interface, an LCD, a SD card slot, and an on-board debugger.

### Installing MPLAB® IDE and C Compilers

Before you use the PIC32MX1XX/2XX Starter Kit, it is important that you have installed the Microchip MPLAB® Integrated Development Environment (IDE). MPLAB IDE provides the assembler tools you will use for development. You will also need a C compiler for the demonstration code. The 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/MPLAB> and <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.

### Demonstration Code and More Information

For demonstration code and more information, please visit the PIC32MX1XX/2XX Starter Kit page at: <http://www.microchip.com>. From the Design menu, click **Development Tools**. Then, from the Starter Kits menu, click **Starter Kits**, and then click **PIC32MX1XX/2XX Starter Kit**. From the Downloads table at the bottom of the page, click the **PIC32 I2S Demo** link.

### Running the Demonstration Code

After downloading the demonstration code and installing the development tools, please use the procedure outlined in the readme.txt file included with the demonstration code to download and run this application.

#### 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

#### Asia/Pacific (Continued)

China - Chongqing - 86-23-8980-9588  
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 - 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 - 886-3-5770-955  
Taiwan - Taipei - 886-2-2500-6610  
Thailand - Bangkok - 66-2-694-1351



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# PIC32MX1XX/2XX Starter Kit Information Sheet

