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Search



- [Home](#)
- [Products](#)
- [Design](#)
- [Support](#)
- [Applications](#)
- [Buy/Sample](#)
- [Corporate](#)
- [What's New](#)

[Home](#) ▶ [Products Home Page](#) ▶ [Development Tools Main Page](#) ▶

Other Links
Buy/Sample Options DV164033
Contact Microchip
Development Tool Selector
Microchip Advanced Parts Selector (MAPS)

Explorer 16 Starter Kit [Buy it Now](#)

Part Number: DV164033

The Explorer 16 Starter Kit is a complete set of tools for application development using Microchip's PIC24F, PIC24H, and dsPIC33 16-bit microcontrollers. The kit includes MPLAB® ICD 2 In Circuit Debugger, Explorer 16 Development Board, 9V universal power supply that can be used for either the Explorer 16 Development Board or the MPLAB ICD 2 in-circuit debugger, serial cable, and both PIC24FJ128GA010 and dsPIC33F256GP710 devices mounted on plug-in modules for quick replacement. Also included with the kit is Microchip's MPLAB Integrated Development Environment (IDE), the Student Edition of the MPLAB C30 C Compiler for Microchip's 16-bit devices, with tutorials and user manuals on CDROM. The complete kit introduces the developer to Microchip's new family of 16-bit microcontrollers with all the tools for writing code in C, hardware debugging the application and programming devices.



Components and Features

MPLAB® Integrated Development Environment (SW007002)

- Programmer's editor with color-coded context highlighting, code folding/browsing fully integrated with the debugger
- Graphical project manager
- Full featured debugger with watch points, mouse-over variable inspection, and immediate editor access at breakpoints and single-stepping
- MPLAB SIM high speed software simulator with complex stimulus control
- Visual Device Initializer tool (VDI) generates initialization code with an easy graphical dialog for setting up complex peripherals
- Powerful plug-ins for data monitor and control, motor control, RTOS viewer and others

MPLAB C 30 Student Edition C-Compiler (SW006012)

- Full-featured ANSI compatible compiler including libraries, and all components of the full version
- Completely integrated with MPLAB IDE
- MPLAB ASM30 assembler, MPLAB LINK30 and utilities to support Microchip 16-bit MCUs

MPLAB ICD 2 In Circuit Debugger (DV164007)

- Real time debugging with watch points, breakpoints, variable watch/modify, single-stepping from MPLAB C30 Compiler, integrated into MPLAB IDE
- Firmware upgradeable from PC
- Supports low voltage to 2.0 volts
- Reading/programming memory space and EEDATA areas of MCU
- USB (full speed) and RS232 interface to PC
- 9V Power Supply (AC162039)

Explorer 16 Development Board (DM240001)

- Cost effective development board for Microchip 16-bit products
- PIC24FJ128GA010 and dsPIC33FJ256GP710 included
- Alpha-numeric 16x2 LCD display
- MPLAB ICD 2 debug connector
- USB and RS232 interfaces
- Microchip's TC1047A high accuracy, analog output temperature sensor
- Expansion connector accesses full device pin-out and bread board prototyping area.
- PICTail™ Plus connector for future expansion boards
- Full documentation includes User Guides, schematics and PCB layout on CDROM

Downloads

Title	Date Published	Size	D/L
Advanced SMPS Topics	1/27/2010 9:13:38 PM	22524 KB	
Controlling High Brightness LEDs using the dsPIC GS series of SMPS controllers	1/24/2011 8:46:08 AM	19998 KB	
DM240001_BOM_and_Schematics	10/11/2009 6:14:46 PM	866 KB	
dsPIC DSC Speex Speech Encoding/Decoding Library	9/7/2011 7:40:30 PM	37 KB	
dsPIC33E Demo for Explorer 16	6/27/2011 5:30:47 PM	27 KB	
dsPIC33F Demo Files for Explorer 16	4/18/2007 10:13:56 AM	25 KB	
dsPIC33FJ128GP804 PIM Information Sheet	10/26/2010 10:52:52 AM	289 KB	
dsPIC33FJ128MC804 PIM Information Sheet	10/28/2008 3:02:15 PM	311 KB	
dsPIC33FJ12GP202 PIM Information Sheet	12/12/2007 3:44:00 PM	393 KB	