

## USB for PIC24 Development Kit



### Development Kit Options

Tools Included	<u>PCWHD</u> Compiler Sku S-181	<u>PCDIDE</u> Compiler S-183	Hardware Only*	Proto- Board*
Compiler Software	<u>PCWHD</u>	<u>PCDIDE</u>		
Programmer	●	●	●	
Prototyping board	●	●	●	●
Power supply & cables	●	●	●	
Exercise book	●	●	●	
Price	\$744	\$494	\$169	\$85

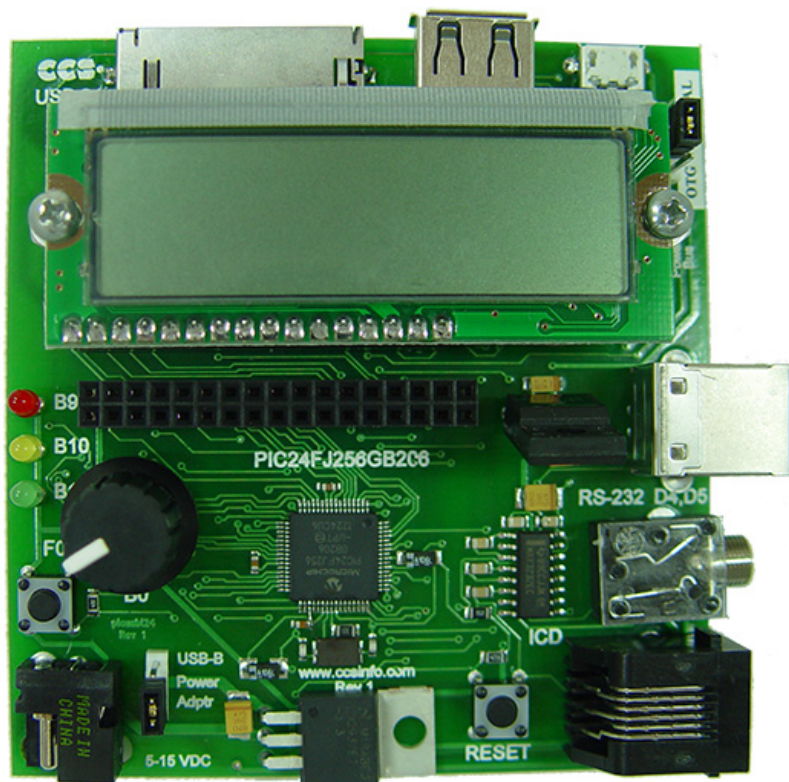
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\*Hardware only and proto-boards are intended for customers already owning a CCS compiler.

This kit enables users to begin USB interface development with Microchip's PIC<sup>®</sup> PIC24 family. The development kit includes the powerful PCWHD Integrated Development Environment with compiler support for Microchip's 8-bit and 16-bit PIC<sup>®</sup> MCU families (PIC10 to PIC24, dsPIC30 and dsPIC33) and an ICD-U64 in-circuit programmer/debugger that supports C-aware real time debugging. The prototyping board features the PIC24FJ256GB206 with an on-chip USB controller peripheral. The peripheral on this chip also supports host mode, or USB On-The-Go support, which allows the PIC to communicate with USB devices like mice and keyboards. PC software (with source) is included to communicate with the USB board. CCS provided examples include human interface applications and a high speed example emulating an oscilloscope.

## **The USB for PIC24 Prototyping Board (Size: 3.5" x 3") includes:**



- PIC24FJ256GB206 device
- 30 I/O Pins on the header (5 Can Be Analog)
- RS-232 Port and RS-232 Level Converter
- Three LEDs
- One Potentiometer
- One Push-button
- USB B connector, for developing USB device applications
- USB A connector, for developing USB host applications
- Micro USB connector, which supports device, host and USB On-the-go applications
- PIC controlled 5V regulator for supplying USB power to USB devices
- Real time clock (RTC) with battery
- SD Card connector
- LCD
- One jumper to Configure board as self-powered or USB powered
- One jumper to configure USB ports for device mode or host mode

**Several USB examples are provided with the CCS C Compiler:**

- Creating a USB mouse
- Creating a USB keyboard
- Creating a USB mouse and keyboard on the same PIC
- Using USB HID protocol for generic transmission of data, with accompanying PC software (and source in VB.net) to read the data. No drivers needed for the OS.
- Using generic USB bulk messages for generic transmission of data, with accompanying PC software (and source in VB.net) to read the data. Drivers for Windows are also provided.
- Using USB CDC protocol to create a virtual COM port that can be used by legacy applications expecting serial COM ports.

The CCS USB examples are also compatible with the [USB Development Kit](#).

The exercise book and demo CD also provides a demo application for performing a data logging application using a filesystem on an SD card and the RTC for timestamps.

## **The USB for PIC24 Development Kit includes:**

- USB for PIC24 Prototyping Board
- In-Circuit Debugger/Programmer
- Exercise Tutorial
- 9V AC Adapters and Cables

**Click here to view the [Prototyping Accessories](#).**