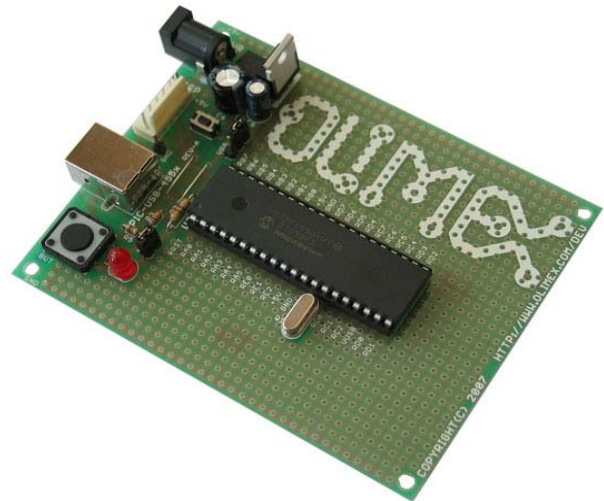# Olimex - PIC-USB-4550 - Embedded – Evaluation Kit

Product Overview:

This is prototype board for development of USB application with PIC18F4550 microcontroller. The great all about it is that if you want only to load code to it i.e. to program it you can do this without any additional programmer. Microchip provides these free USB solutions for their microcontrollers which are available for you to use off the shelf: USB HID Class firmware you can build mouse or other Human Interface Device (HID) for Windows, USB CDC Communication class device, USB Mass Storage firmware - add your own USB disk drives to your computer, USB-to-RS232 driver. The plant of prototype space allows you easy to add on sensors, relays and other peripheral devices to interface to USB. The board can take power from USB or from External supply with small jumper selection. RESET button, User button and LED are on-board.

Key Features:

The PIC-USB-4550 development board has the following features:

- ICSP/ICD connector for programming with PIC-MCP, PIC-MCP-USB, PIC-PG1,PIC-PG2, PIC-PG3 or PIC-PG4 and programming and debugging with PIC-ICD2, PIC-ICD2-POCKET, PIC-ICD2-TINY
- USB 2.0 type B connector allow board to be interfaced to PC host.
- PIC18F4550-I/P on DIL40 socket
- Quartz crystall 20Mhz
- LED connected to RD3 through jumper
- User Button connected to RB4
- Reset button
- Power plug-in jack with diode bridge can be powered with AC or DC power supply
- 5V voltage regulator
- Extension slot on every uC pin
- Gird 100 mils
- GND and Vcc Bus
- Four mounting holes 3,3 mm (0,13")

- FR-4, 1.5 mm (0,062"), green solder mask, white silkscreen component print
- Dimensions 100x80 mm (3,9x3,15")

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
PIC-USB-4550	Olimex	1701541	25R4930

Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
PIC18F4550-I/P	Microchip	Prototype Board For PIC18F4550 Microcontroller with USB	9321357	74K8623

Similar Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
PIC-USB-STK	Olimex	PIC USB Starter Kit Prototype Board for PIC18F4550 Microcontroller with USB	PIC Microcontroller	1776342	52R3658

Document List:

Datasheets:

Part Number	Description	Size
PIC18F4550	USB Microcontrollers with Nano Watt Technology	6.82MB

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Application Notes:

File Name	Size
Microchip MiWi P2P Wireless Protocol	370.95KB
Class B Safety Software Library for PIC MCUs and dsPIC DSCs	398KB
Implementing a PID Controller Using a PIC18 MCU	266KB
Power Management for PIC18 USB Microcontrollers with nanoWatt Technology	259.30KB
Migrating Applications to USB from RS-232 UART with Minimal Impact on PC Software	253.96KB
Modifying the PICDEMTM USB Board for PIC18 Full-Speed USB Microcontrollers	188KB

Hardware & Software:

File Name	Size
PIC-USB-4550 Schematic	27.5KB
Blink LED for PIC16F876 demo code	17KB
Button read for PIC16F876 demo code	18.8KB
RS232 send/receive for PIC16F876 demo code	18KB

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