



Olimex - PIC-USB-STK - USB - Evaluation Kit

Product Overview:

This starter kit allows you to explore all capabilities of PIC18F4550 and the Microchip's USB firmware. The software examples include: USB HID mouse which allow you to move the mouse cursor with the four buttons on the board, USB Mass storage device on SD-MMC card simple adds USB disk to your computer, USB to RS232 converter all these firmware under your control and ready to be customized and embedded in your next application. The debugging is In-Circuit through ICSP connector; the free available ports are put on Extension connector.



Key Features:

The PIC-USB-STK start kit 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 allows board to be interfaced to PC host.
- RS232 connector
- SD-MMC connector
- Audio In, Audio Out connectors
- Status LEDs
- Trimmer potentiometer
- Four buttons
- PIC18F4550-I/P on DIL40 socket
- Quartz crystal 20Mhz
- Reset button
- Power plug-in jack with diode bridge can be powered with AC or DC power supply
- 5V voltage regulator
- Extension slot for the not connected ports
- Four mounting holes 3,3 mm (0,13")
- FR-4, 1.5 mm (0,062"), green solder mask, white silkscreen component print
- Dimensions 104x76 mm (4,1x3")

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
PIC-USB-STK	Olímex	1701542	25R4929

Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
PIC18F4550-I/PT	Microchip	8-Bit Microcontroller IC	9321365	08J9633

Similar Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
PIC-USB-4550	Microchip	Prototype Board PIC18F4550 Microcontroller with USB	PIC18F4550	1701541	25R4930

Document List:

Datasheets:

Part Number	Description	Size
PIC18F4550	PIC18F2455/2550/4455/4450 Data Sheet	6.82MB

Application Notes:

File Name	Size
MiWi Wireless Networking Protocol Stack	634.46KB
Emulating Data EEPROM for PIC18 and PIC24 MCUs and dsPIC DSCs	368KB
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	266.31KB
Power Management for PIC18 USB Microcontrollers with nano Watt Technology	259.30KB

Data Encryption Routines for PIC18 Microcontrollers	355.45KB
Migrating Applications to USB from RS-232 UART with Minimal Impact on PC Software	253KB
Modifying the PICDEM USB Board for PIC18 Full-Speed USB Microcontrollers	188KB

Hardware & Software:

File Name	Size
PIC-USB-4550 Schematic	27.5KB
Blink LED Demo Code	19.8KB
Button Read Demo Code	19.5KB
USB Boot Loader	203KB