PIC-KIT3 LOW COST PROGRAMMER / DEBUGGER

INFO:

PIC-KIT3 is low cost programmer / debugger, with only 55 x 55 mm (2.16 x 2.16") dimensions and only 30gr weight (without ICSP cable and packing) this little device fits in your pocket and is very convenient to carry with you when you work in field. PIC-KIT3 is completely replacement of Microchip's original MPLAB-PICKIT3 and with it you can do everything you can do with the original MPLAB-PICKIT3.

FEATURES:

- USB (Full Speed 2 M bits/s) interface to host PC
- Real time background debugging
- MPLAB IDE GUI (latest release available for free download from Microchip's web site)
- Built in over-voltage/short circuit monitor
- Firmware upgradeable from PC
- Light plastic enclosure
- Supports low voltage to 2.0 volts. (2.0 to 6.0 range)
- Diagnostic bi-color LED (Busy, Error)
- USB power status green LED
- Reading/Writing memory space and EEDATA areas of target microcontroller
- Programs configuration bits
- Erase of program memory space with verification

- Peripheral freeze-on-halt stops timers at breakpoints

HARDWARE:

PIC ICSP connector (top view)

SOFTWARE:

MPLAB-IDE - you can download the latest version from Microchip's web site.

FAQ:

Q: What USB cable I need?
A: You must have USB type A-B cable to connect to PC, all PC USB hosts have USB-A connector while PIC-KIT3 have USB-B connector so the cable should be USB A-to-B type.

Q: What should I know when connect PIC-KIT3 to target board.
A: **It's very important your target PIC MCLR to not be connected directly to VCC!** During the programming/debugging MCLR goes as high as 13VDC and if your target MCLR is connected directly to target VCC you will blow either PIC-KIT3 either your target board. Use always 10K pullup resistor from MCLR to VCC.

Q: What is the function of the two leds?
A: There are two leds – one yellow led named ACTIVE and one double color led named STAT (red/green colors). The yellow led shows USB activity – e.g. when the device is connected to the USB properly. The STAT led shows RED color when you are connected to MPLAB. When there is programming data transferred the green led should blink.

WARNING:

Do not use "programmer-to-go" button when there is no image on the OLIMEX PIC-KIT3 or MICROCHIP PIC-KIT3 or that might put your microcontroller in an inrecoverable state. We have tested the mentioned scenario and we can confirm it destroys PIC32 chips (using both our and the original Microchip PICKIT3). We don't take responsibility if you brick your chip that way. For more info check the following: www.microchip.com/forums/m635420.aspx.

ORDERING CODES:

PIC-KIT3 completely assembled and tested + ICSP cable