PICKIT 3 Programmer

The PICkit 3 programmer/debugger is a simple, low-cost in circuit debugger that is controlled by a PC running MPLAB IDE software on a windows platform. It is used for hardware and software development of Microchip PIC MCUs and dsPIC that are based on In-Circuit Serial Programming (ICSP) and Enchanced ICSP 2 wire serial interface. A device with built in emulation circuitry for embedded processors with debug facilities.
For more info: Reference link:
http://ww1.microchip.com/downloads/en/DeviceDoc/51795B.pdf

Feature and Specifications:

~ Full-speed USB support using Windows standard drivers
~ Built-in over-voltage/short circuit monitor
~ Diagnostic LEDS (Power, Active, Status)
~ Read/Write program and data memory of microntroller
~ Erase of all memory types (EEPROM, ID, configuration and program) with verification.
~ Debug your application on your own harware in real time.
~ Debug with hardware breakpoints
~ Set breakoutpoints based on internal events.
~ Monitor internal file registers
~ Emulate at full speed
~ Program your device
Input Voltage: 1.8 to 5Vdd, 1.8 to 14V Vpp
~ Extented EE program image space (512Kbytes)

1. Go to our website at www.e-gizmo.net and search for PICKIT3 programmer. or go to this link.
http://ww1.microchip.com/downloads/en/DeviceDoc/PICkit3%200.2.0.3%20Setup.zip

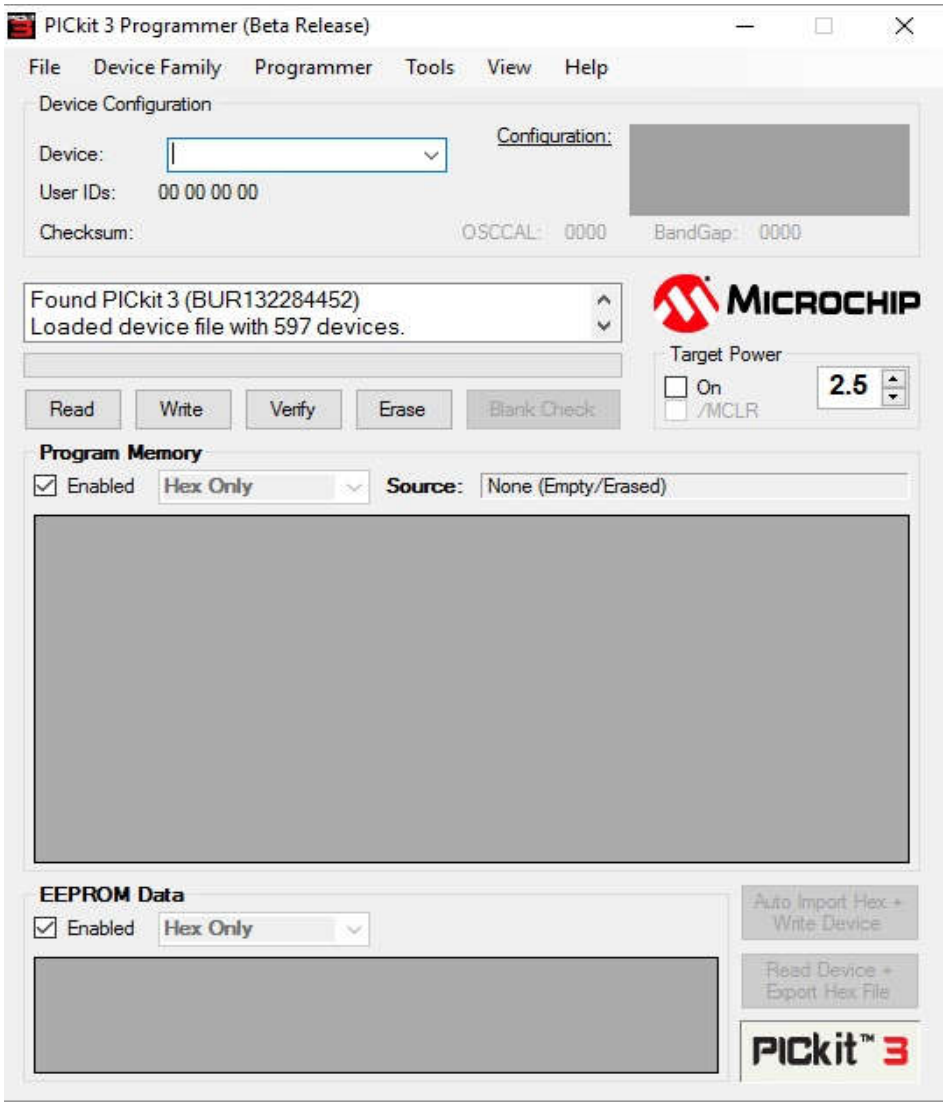


Figure 1. PICKIT 3 programmer Software (Beta Release).

FIGURE 1-1: PICkit™ 3 MCU PROGRAMMER/DEBUGGER

1.2.1 Lanyard Connection

A convenient lanyard connection is available on the programmer.

1.2.2 USB Port Connection

The USB port connection is a USB mini-B connector. Connect the PICkit 3 to the PC using the supplied USB cable.

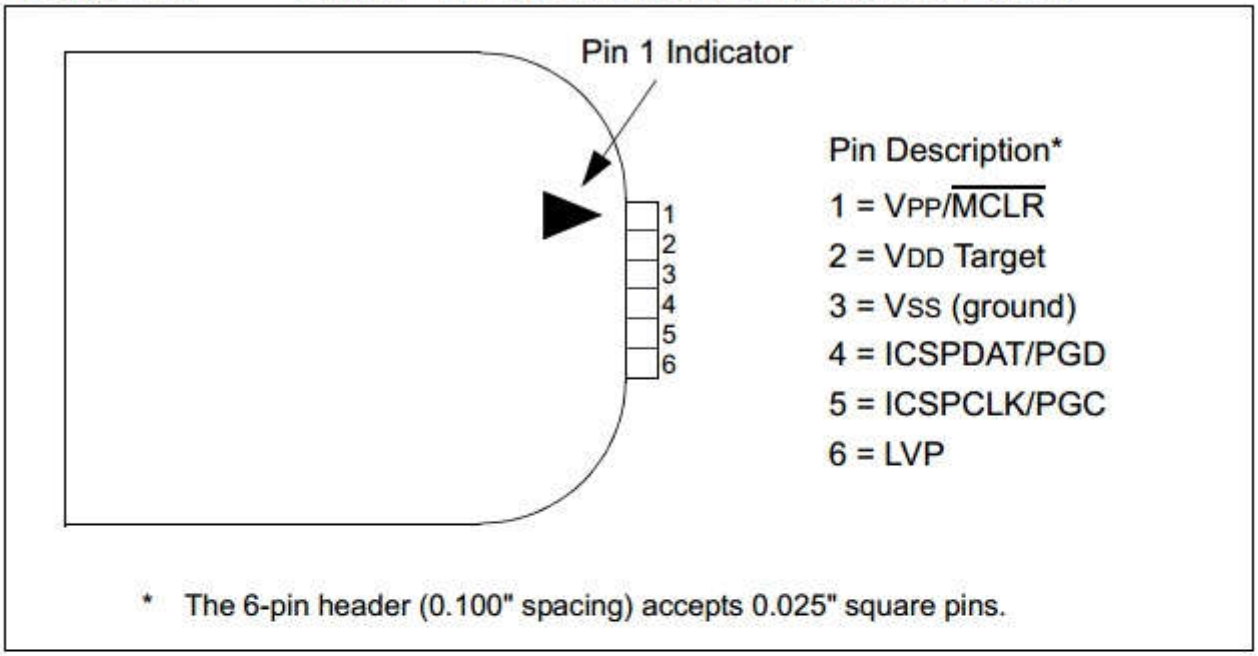
1.2.3 Pin 1 Marker

This marker designates the location of pin 1 for proper connector alignment.

1.2.4 Programming Connector

The programming connector is a 6-pin header (0.100" spacing) that connects to the target device. See the pinout specification in Figure 1-2.

FIGURE 1-2: PICKIT™ 3 PROGRAMMER CONNECTOR PINOUT



Note: The programming connector pin functions are different for programming Serial EEPROMS and HCS devices. See the ReadMe file for the PICkit 3 (*Help>Readme)* included with the MPLAB IDE software for these pinouts.

1.2.5 Status LEDs

The Status LEDs indicate the status of the PICkit 3.

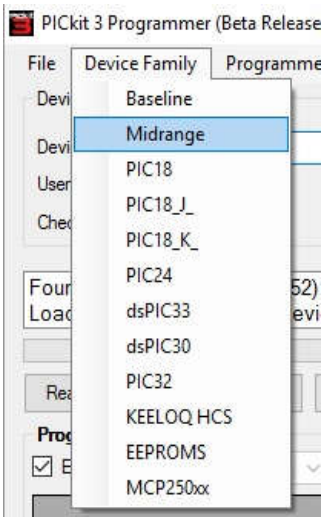
1. **Power** (green) – Power is supplied to the PICkit 3 via the USB port.
2. **Active** (blue) – The PICkit 3 has connection to the PC USB port and the communication link is active.
3. **Status:**

   Busy (yellow) – The PICkit 3 is busy with a function in progress, such as programming.

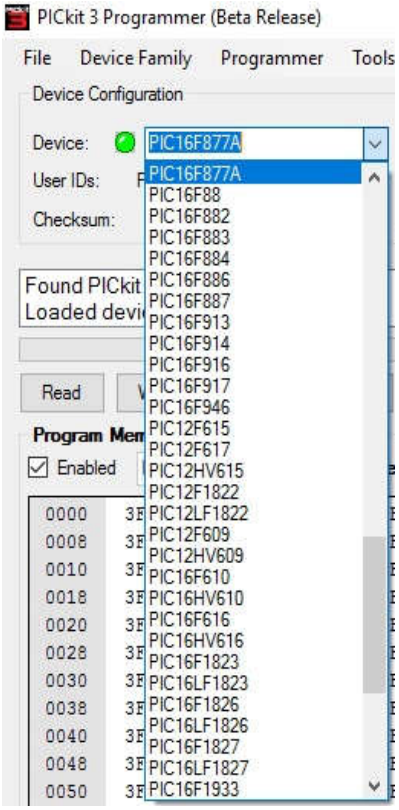
   Error (red) – The PICkit 3 has encountered an error.

the Microphone Analog sound sensor.

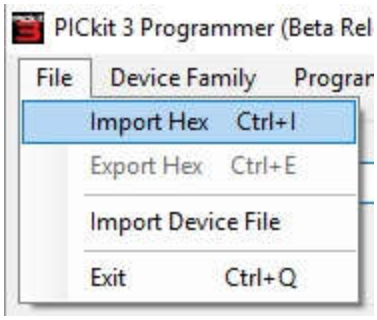
A. To select the device. Go to "Device Family"> Midrange.



B. Type /select the device (e.g PIC16F877A)



C. File> Import Hex (file format)



D. Now you can "Write" the file to the device. Wait until it programm successful done.)