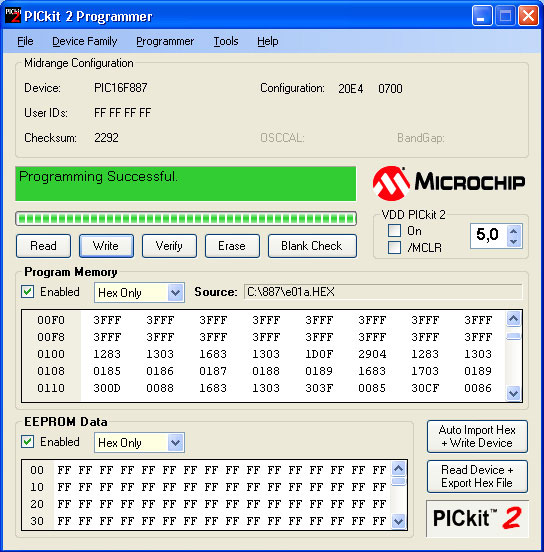
Minda Pickit 2 programmer

**Programs common microchip's PIC controllers which operates from 3V to 5V.**

**Features**

* Auto Detects Programming Hardware and Inserted Devices
* Hi-Speed USB Communication Interface for Fast Programming Speed
* In-Circuit Serial Programming Connector for SMD devices or development boards
* Powered from USB, No external power supply required
* Status LED and Program button

**Software**



Programmer works in Windows XP - Windows 7 - Windows 8



**Getting Started**

1. Download and Install the programming software by running setup of PICKIT2. Once installed you will get icon on desktop saying PICKIT2.

2. Connect the programmer to the PC using the supplied USB cable.

3. Start Software on PC Software will show message "PICKIT 2 found and Connected"

4. Go to menu File > Import HEX and select a hex file. Click on WRITE button to start programming.

5. Status LEDs Busy LED – The Programmer is busy with a function such as Programming.

**Current PICkit 2 Device Support**

**PLEASE NOTE that the PICkit 2 Programmer Application provides programming support for additional devices that MPLAB IDE does not. The list of these devices can be found further down, in the Device Programming Only Support section.**

For support information with an installed previous version of the MPLAB IDE, see *Readme for PICkit 2* in the “Readmes” subdirectory of “MPLAB IDE.” (Typically C:\Program Files\Microchip\MPLAB IDE\Readmes)

**Device Programming and Debugging Support**

MPLAB IDE X provides programming and debugging support for these devices.

MPLAB IDE v8 provides programming and debugging support for these devices.

The PICkit 2 Programmer Application v2.61 provides programming support for these devices.

\* Devices marked with an asterisk ***require*** a device specific ICD header board & the RJ-11 to ICSP Adapter to enable debugging. These are not required for programming.

**Baseline Devices**

* PIC10F200\*, 202\*, 204\*, 206\*
* PIC12F508\*, 509\*
* PIC16F505\*  
  - *Above use AC162059 ICD header & AC164110 adapter.*
* PIC10F220\*, 222\*
* PIC12F510\*
* PIC16F506\*  
  - *Above use AC162070 ICD header & AC164110 adapter*

**Midrange Devices**

*‘LF’ versions of all devices are also supported*

* PIC12F609\*, HV609\*  
  - *Use AC162083 ICD header & AC164110 adapter.*
* PIC12F615\*, HV615\*  
  - *Use AC162083 ICD header & AC164110 adapter.*
* PIC12F629\*, 675\*  
  - *Use AC162050 ICD header & AC164110 adapter.*
* PIC12F635\*, PIC16F636\*  
  - *Use AC162057 ICD header & AC164110 adapter.*
* PIC12F683\*  
  - *Use AC162058 ICD header & AC164110 adapter.*
* PIC16F610\*, HV610\*  
  - *Use AC162083 ICD header & AC164110 adapter.*
* PIC16F616\*, HV616\*  
  - *Use AC162083 ICD header & AC164110 adapter.*
* PIC16F627A\*, 628A\*, 648A\*  
  - *Use AC162053 ICD header & AC164110 adapter.*
* PIC16F630\*, 676\*  
  - *Use AC162052 ICD header & AC164110 adapter.*
* PIC16F631\*, 677\*, 685\*, 687\*, 689\*, 690\*  
  *- Use AC162061 ICD header & AC164110 adapter.*
* PIC16F639\*  
  - *Use AC162066 ICD header & AC164110 adapter.*
* PIC16F684\*  
  - *Use AC162055 ICD header & AC164110 adapter.*
* PIC16F688\*  
  - *Use AC162056 ICD header & AC164110 adapter.*
* PIC16F716\*  
  - *Use AC162054 ICD header & AC164110 adapter.*
* PIC16F722, 723, 724, 726, 727
* PIC16F737, 747, 767, 777
* PIC16F785\*, HV785\*  
  - *Use AC162060 ICD header & AC164110 adapter.*
* PIC16F87, 88
* PIC16F818, 819
* PIC16F870, 871, 872, 873, 874, 876, 877
* PIC16F873A, 874A, 876A, 877A
* PIC16F882, 883, 884, 886, 887
* PIC16F913, 914, 916, 917
* PIC16F946

**PIC18 Devices**

*‘LF’ versions of all devices are also supported*

* PIC18F242, 252, 442, 452
* PIC18F248, 258, 448, 458
* PIC18F1220, 1320, 2220, 2320
* PIC18F1230, 1330
* PIC18F2221, 2321
* PIC18F2331, 2410, 2420, 2431
* PIC18F2423
* PIC18F2450, 2455, 2458, 2480
* PIC18F2510, 2515, 2520, 2523
* PIC18F2525
* PIC18F2550, 2553, 2580, 2585
* PIC18F2610, 2620, 2680
* PIC18F2682, 2685
* PIC18F4220, 4221
* PIC18F4320, 4321, 4331
* PIC18F4410, 4420, 4423
* PIC18F4431, 4450, 4455
* PIC18F4458, 4480
* PIC18F4510, 4515, 4520, 4523
* PIC18F4525, 4550, 4553, 4580
* PIC18F4585
* PIC18F4610, 4620, 4680
* PIC18F4682, 4685
* PIC18F6310, 6390, 6393
* PIC18F6410, 6490, 6493
* PIC18F6520, 6525, 6527, 6585
* PIC18F6620, 6621, 6622, 6627
* PIC18F6628, 6680
* PIC18F6720, 6722, 6723
* PIC18F8310, 8390, 8393
* PIC18F8410, 8490, 8493
* PIC18F8520, 8525, 8527, 8585
* PIC18F8621, 8620, 8622, 8627
* PIC18F8628, 8680
* PIC18F8720, 8722, 8723
* PIC18F24J10, 25J10, 44J10, 45J10
* PIC18F24J11, 25J11, 26J11, 44J11, 45J11, 46J11
* PIC18F24J50, 25J50, 26J50, 44J50, 45J50, 46J50
* PIC18F63J11, 63J90, 64J11, 64J90
* PIC18F65J10, 65J11, 65J15
* PIC18F65J50, 65J90
* PIC18F66J10, 66J11, 66J15, 66J16
* PIC18F66J50, 66J55, 66J60, 66J65
* PIC18F66J90
* PIC18F67J10, 67J11, 67J50, 67J60
* PIC18F67J90
* PIC18F83J11, 83J90, 84J11, 84J90
* PIC18F85J10, 85J11, 85J15, 85J50
* PIC18F85J90
* PIC18F86J10, 86J11, 86J15, 86J16
* PIC18F86J50, 86J55, 86J60, 86J65
* PIC18F86J90
* PIC18F87J10, 87J11, 87J50, 87J60
* PIC18F87J90
* PIC18F96J60, 96J65
* PIC18F97J60
* PIC18F13K50\*, 14K50\*

- *Use*AC244023*ICD header.*

* PIC18F24K20, 25K20, 26K20
* PIC18F44K20, 45K20, 46K20
* PIC18F14K22

**PIC24 Devices**

* PIC24F08KA101, 08KA102
* PIC24F16KA101, 16KA102
* PIC24FJ16GA002, 16GA004
* PIC24FJ32GA002, 32GA004
* PIC24FJ48GA002, 48GA004
* PIC24FJ64GA002, 64GA004
* PIC24FJ64GA006, 64GA008, 64GA010
* PIC24FJ64GB106, 64GB108, 64GB110
* PIC24FJ96GA006, 96GA008, 96GA010
* PIC24FJ128GA006, 128GA008, 128GA010
* PIC24FJ128GA106, 128GA108, 128GA110
* PIC24FJ128GB106, 128GB108, 128GB110
* PIC24FJ192GA106, 192GA108, 192GA110
* PIC24FJ192GB106, 192GB108, 192GB110
* PIC24FJ256GA106, 256GA108, 256GA110
* PIC24FJ256GB106, 256GB108, 256GB110
* PIC24HJ12GP201, 12GP202
* PIC24HJ16GP304
* PIC24HJ32GP202, 32GP204
* PIC24HJ32GP302, 32GP304
* PIC24HJ64GP202, 64GP204
* PIC24HJ64GP206, 64GP210, 64GP506
* PIC24HJ64GP502, 64GP504, 64GP510
* PIC24HJ128GP202, 128GP204
* PIC24HJ128GP206, 128GP210, 128GP306
* PIC24HJ128GP310
* PIC24HJ128GP502, 128GP504
* PIC24HJ128GP506, 128GP510
* PIC24HJ256GP206, 256GP210, 256GP610

**dsPIC30 Devices**

* dsPIC30F1010
* dsPIC30F2010, 2011, 2012
* dsPIC30F2020, 2023
* dsPIC30F 3010, 3011, 3012
* dsPIC30F3013, 3014
* dsPIC30F4011, 4012, 4013
* dsPIC30F5011, 5013, 5015, 5016
* dsPIC30F6010A, 6011A, 6012A
* dsPIC39F6013A, 6014A, 6015

**dsPIC33 Devices**

* dsPIC33FJ12GP201, 12GP202
* dsPIC33FJ16GP304
* dsPIC33FJ32GP202, 32GP204
* dsPIC33FJ32GP302, 32GP304
* dsPIC33FJ64GP202, 64GP204
* dsPIC33FJ64GP206, 64GP306, 64GP310
* dsPIC33FJ64GP706, 64GP708, 64GP710
* dsPIC33FJ64GP802, 64GP804
* dsPIC33FJ128GP202, 128GP204
* dsPIC33FJ128GP206, 128GP306, 128GP310
* dsPIC33FJ128GP706, 128GP708, 128GP710
* dsPIC33FJ128GP802, 128GP804
* dsPIC33FJ256GP506, 256GP510, 256GP710
* dsPIC33FJ06GS101, 06GS102, 06GS202
* dsPIC33FJ16GS402, 16GS404
* dsPIC33FJ16GS502, 16GS504
* dsPIC33FJ12MC201, 12MC202
* dsPIC33FJ16MC304
* dsPIC33FJ32MC202, 32MC204
* dsPIC33FJ32MC302, 32MC304
* dsPIC33FJ64MC202, 64MC204
* dsPIC33FJ64MC506, 64MC508, 64MC510
* dsPIC33FJ64MC706, 64MC710
* dsPIC33FJ64MC802, 64MC804
* dsPIC33FJ128MC202, 128MC204
* dsPIC33FJ128MC506, 128MC510
* dsPIC33FJ128MC706, 128MC708, 128MC710
* dsPIC33FJ128MC802, 128MC804
* dsPIC33FJ256MC510, 256MC710

**Device Programming Only Support PICkit 2 Programmer Application v2.61**

In addition to the devices above, the PICkit 2 Programmer Application v2.61 provides programming support for the following devices with the latest device file:

**Baseline Devices**

* PIC12F519, 526
* PIC16F54, 57, 59

**Midrange Devices**

*‘LF’ versions of all devices are also supported*

* PIC10F320, 322
* PIC12F617
* PIC12F752, HV752
* PIC16F627, 628
* PIC16F72, 73, 74, 76, 77
* PIC16F707
* PIC16F720, 721
* PIC16F722A, 723A
* PIC16F84A

**Enhanced Midrange Devices**

*‘LF’ versions of all devices are also supported*

* PIC12F1822
* PIC12F1840
* PIC16F1503, 1507, 1508, 1509
* PIC16F1516, 1517, 1518, 1519
* PIC16F1526, 1527
* PIC16F1782, 1783
* PIC16F1823, 1824, 1825, 1826, 1827, 1828, 1829
* PIC16F1847
* PIC16LF1902, 1903, 1904, 1906, 1907
* PIC16F1933, 1934, 1936, 1937, 1938, 1939
* PIC16F1946, 1947

**PIC18 Devices**

*‘LF’ versions of all devices are also supported*

* PIC18F23K20, 43K20
* PIC18F13K22
* PIC18F23K22, 24K22, 25K22, 26K22
* PIC18F43K22, 44K22, 45K22, 46K22
* PIC18F26K80

**PIC24 Devices**

* PIC24F04KA200, 04KA201
* PIC24FJ32GA102, 32GA104
* PIC24FJ32GB002, 32GB004
* PIC24FJ64GA102, 64GA104
* PIC24FJ64GB002, 64GB004

**dsPIC33 Devices**

* dsPIC33FJ64GP206A, 64GP306A, 64GP310A
* dsPIC33FJ64GP706A, 64GP710A
* dsPIC33FJ128GP206A, 128GP306A, 128GP310A
* dsPIC33FJ128GP706A, 128GP710A
* dsPIC33FJ256GP506A, 256GP510A, 256GP710A

**PIC32 Devices**

* PIC32MX320F032H, 320F064H
* PIC32MX320F128H, 320F128L
* PIC32MX340F128H, 340F128L
* PIC32MX340F256H
* PIC32MX340F512H
* PIC32MX360F256L, 360F512L
* PIC32MX420F032H
* PIC32MX440F128L, 440F128H
* PIC32MX440F256H
* PIC32MX440F512H
* PIC32MX460F256L, 460F512L

**KEELOQ® HCS Devices**

* HCS200, 201
* HCS300, 301, 320
* HCS360, 361, 362

**11 Series Serial EEPROM Devices**

* 11LC/AA010
* 11LC/AA020
* 11LC/AA040
* 11LC/AA080
* 11LC/AA160

**24 Series Serial EEPROM Devices**

* 24LC/AA/C00
* 24LC/AA01B, 02B, 04B, 08B
* 24LC/AA16B, 32A
* 24LC/AA/FC64, 128, 256, 512
* 24LC/AA/FC1025

**25 Series Serial EEPROM Devices**

* 25LC/AA010A, 020A, 040A
* 25LC/AA080A, 080B, 160A, 160B
* 25LC/AA320A, 640A
* 25LC/AA128, 256, 512, 1024

**93 Series Serial EEPROM Devices**

* 93LC/AA/C46A, 46B, 46C
* 93LC/AA/C56A, 56B, 56C
* 93LC/AA/C66A, 66B, 66C
* 93LC/AA/C76A, 76B, 76C
* 93LC/AA/C86A, 86B, 86C

**MCP250xx CAN Devices**

* MCP25020, 25025
* MCP25050, 25055

In Circuit Serial Programming (ICSP)

The Programmer can program PIC microcontrollers that are installed in an application circuit using In-Circuit Serial Programming (ICSP).

In-Circuit Serial Programming (ICSP) requires five signals:

* VPP – Programming Voltage; when applied, the device goes into Programming mode.
* ICSPCLK or PGC – Programming Clock; a unidirectional synchronous serial clock line from the programmer to the target.
* ICSPDAT or PGD – Programming Data; a bidirectional synchronous serial data line.
* VDD – Power Supply positive voltage.
* VSS or GND – Power Supply ground reference.

However, the application circuit must be designed to allow all the programming signals to be connected to the PIC device without distorting the programming signals. For SMD devices you have to use ICSP connector though target board.

**If you are confused to buy new PICKIT3 or old PICKIT2 then, PICKIT2 is discontinued version but easy to use software. If you only plan to program ICs it supports then PICKIT2 is good. And if you plan to program newer ICs like PIC32 then you have to go with the newer PICKIT3.**