PICSERIAL – Serial PIC Microcontroller Programmer

User's Guide

1. Features

No external power supply required

High quality 3M ZIF socket for easy insertion and removal of devices

Software upgradeable for future PIC Microcontrollers

Can program most PIC devices

LED indication of Active programming mode.

2. Introductions

PICSERIAL is low cost serial port programmer for PIC microcontroller. The programmer does not need external Power supply and it takes all necessary power and signal from RS232 Serial Port.

PICSERIAL is supplied ready to run with its serial cable, manual and software.

Getting Started

2.1 Installing PICSERIAL programming software

There are two software you can use with **PICSERIAL**, WinPIC & IC-Prog. Both are freely available on internet.CD-ROM provides setup of both software. Install both the setup and follow on screen setup instructions.

2.1.1 WinPIC (Recommended)
Software can also be downloaded from following site.
http://freenet-homepage.de/dl4yhf/winpicpr.html

2.1.2 IC-Prog (Only for some devices not mentioned in WinPIC)
Software can be downloaded from following site.
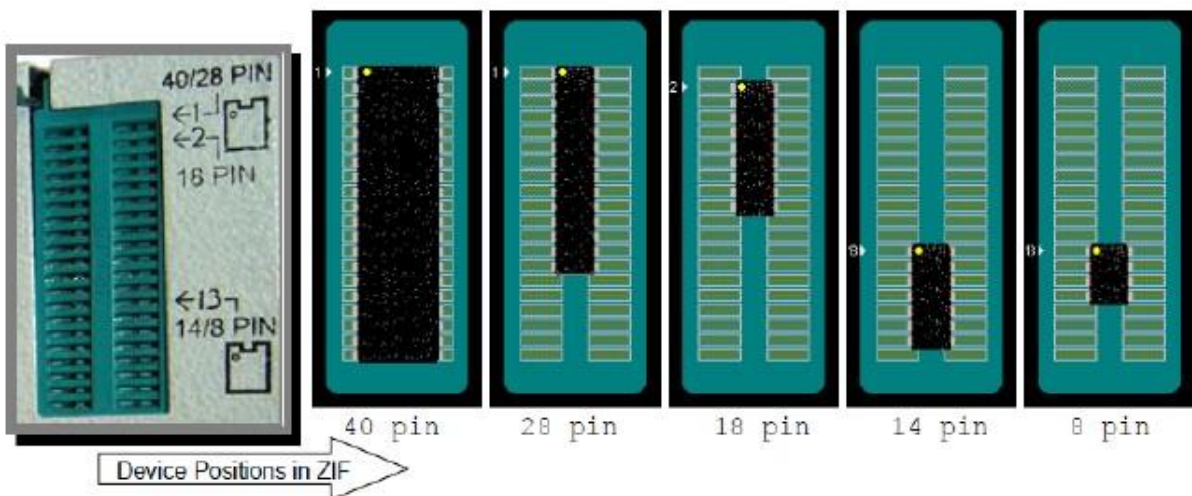http://www.ic-prog.com

2.2 Serial Port Connection
The Serial Port cable connects the PICEX1000 Microcontroller Programmer to the PC.

2.3 Status LED
Using WinPIC LED indicates power and using IC-Prog LED indicates busy status.

## 2.4 ZIF Socket Device Position
Insert appropriate PIC device as shows below

2.5 Setting

After installation, start the WinPIC Programming Software by selecting *Start > Programs > WinPIC > WinPIC*

Go to Interface > Interface Type and Select JDM (2) for Serial Port and Select COM port.
Click on Initialize button will glow LED on your PICSERIAL. If LED does not glow please make sure you have connected the serial cable properly and PICSERIAL is present on the selected COM Port.
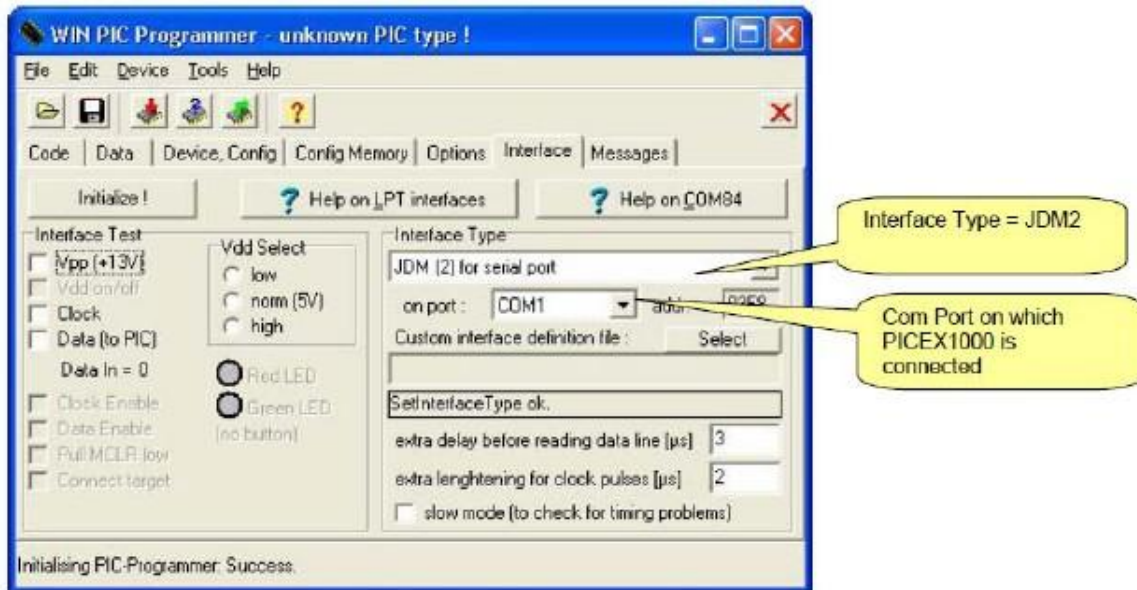
Install freely available PIC compiler from Microchip and provide a device directory. MPLAB is also provided on CDROM, latest version can download from http://www.microchip.com/mplab
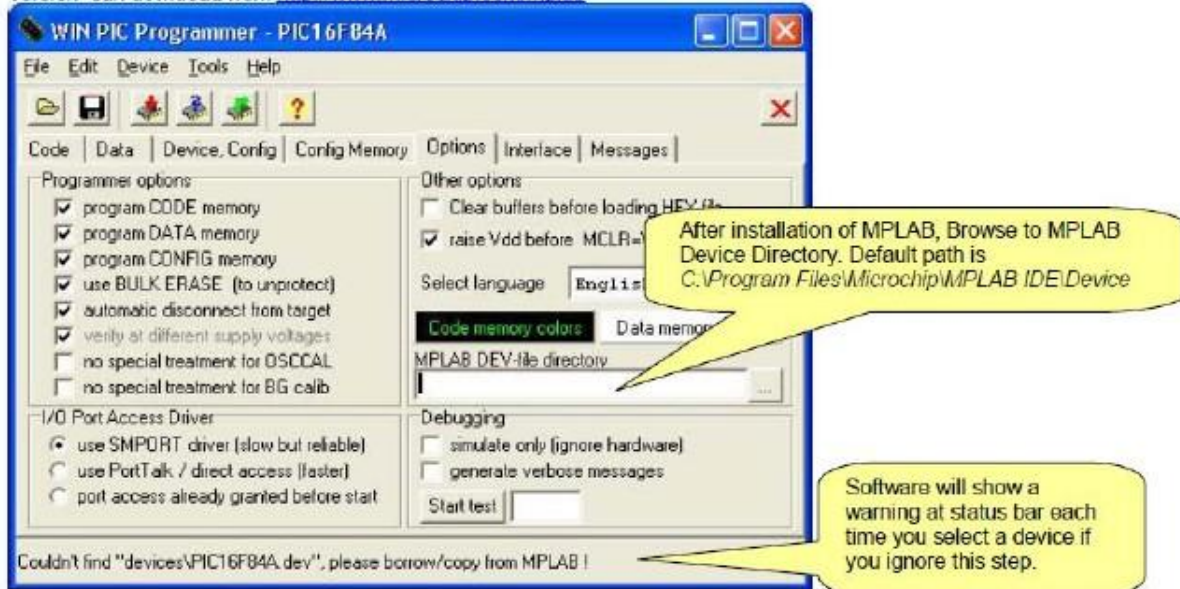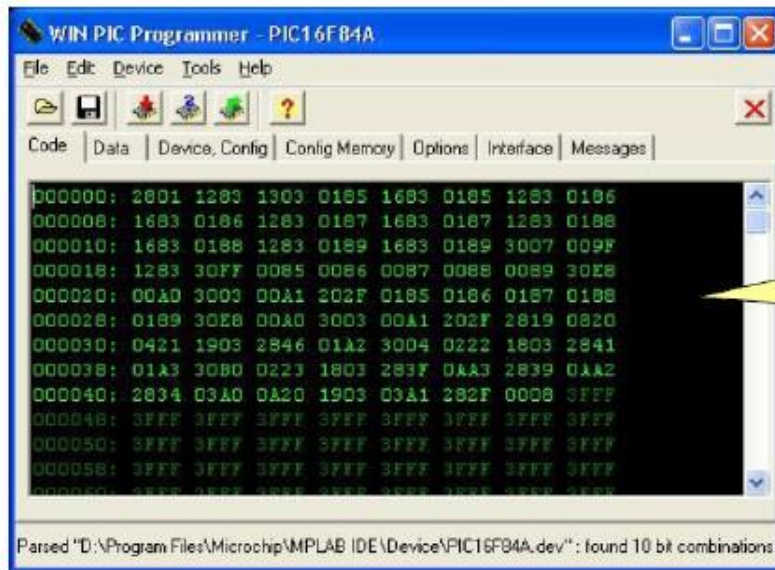
2.6 Using WinPIC for Programming
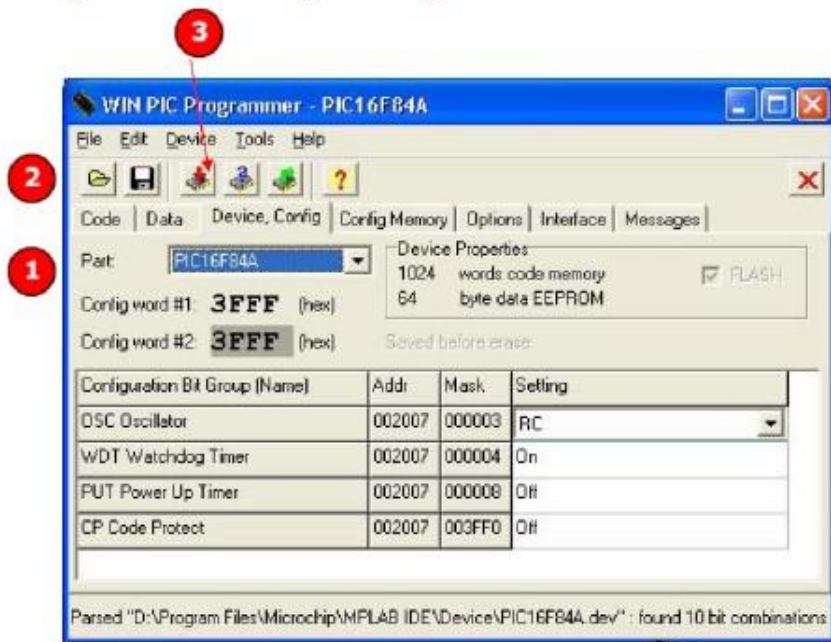
1 Select a Device   **2** Load a HEX file   **3** Click on Program button

This line shows MPLAB directory was found and the device file was read successfully

Following screen shows Code window after loading HEX file

Normal operation you might want to view the code window to see the programming buffer.
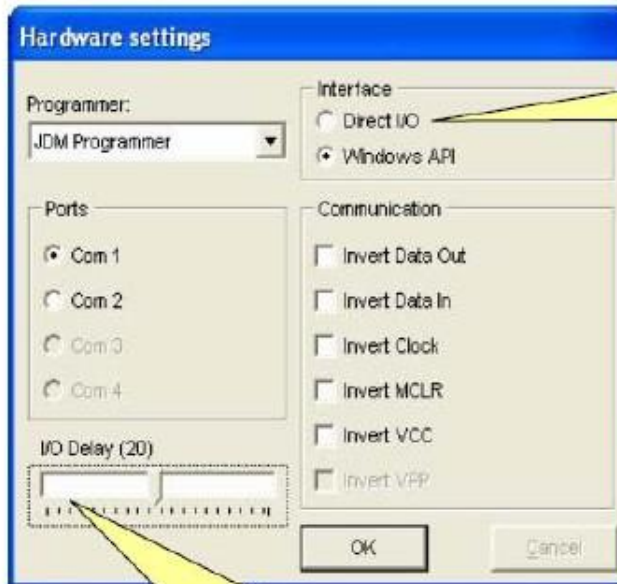
2.7 Setting up IC-Prog software

After installation, start the IC-Prog Programming Software by selecting *Start > Programs > IC-Prog > IC-Prog*

Following dialog box will show up if you are running for first time, Click OK.

Select COM port and configure all settings as below and click **OK**.

Win98 Select Direct I/O and skip following page for setting up Driver.

WinXP/NT/2000 Select Windows API

Later on after testing programmer with I/O delay of 20, you might like to change I/O to a lesser value to speed up process.

3. Using IC-Prog for Programming

1 Select appropriate PIC device to be programmed

2 Load a file, Click on open file…

3 Program All to write and verify the file into device.
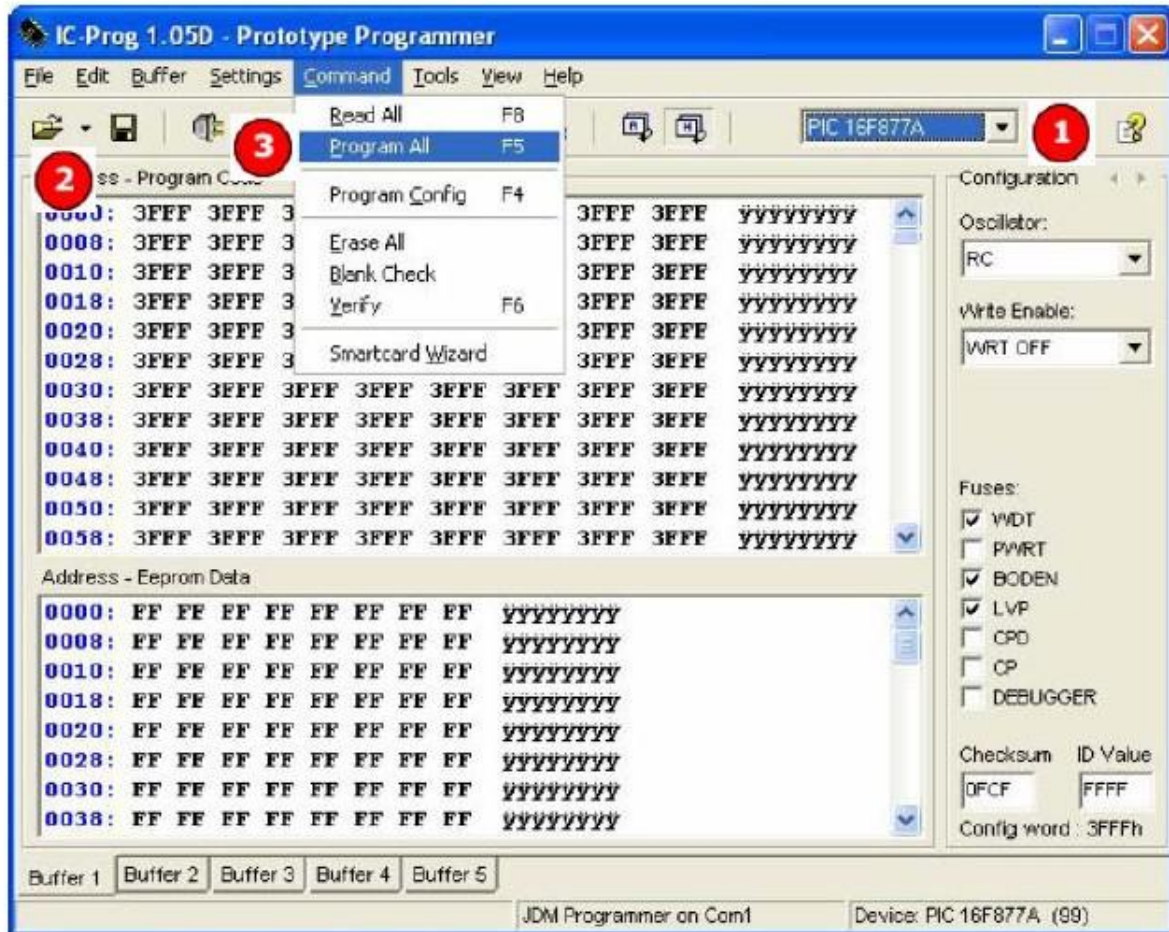
4. Supported Devices

IC-Prog and WinPIC Combined List

PIC10F200
PIC10F202
PIC10F204
PIC10F206
PIC12F629
PIC12F635
PIC12F675
PIC12F683
PIC16C61
PIC16C71
PIC16C84
PIC16F76
PIC16F77
PIC16F627
PIC16F630
PIC16C710
PIC16C711
PIC16F627A
PIC16F628
PIC16F628A
PIC16F636
PIC16F648A
PIC16F676
PIC16F684
PIC16F688
PIC16F716
PIC16F737
PIC16F73
PIC16F74
PIC16F873
PIC16F84
PIC16F874
PIC16F818
PIC16F628
PIC16F72
PIC16F84A
PIC16F74
PIC16F819
PIC16F73
PIC16F76
PIC16F627
PIC16F77
PIC16F872
PIC16F871
PIC16F873A
PIC16F870
PIC16F874A
PIC16F83
PIC16F876A
PIC16F877A
PIC16F628A

PIC16F648A
PIC16F88
PIC16F877
PIC16F876
PIC16F676
PIC16F630
PIC16F819
PIC16F870
PIC16F871
PIC16F872
PIC16F873
PIC16F874
PIC16F876
PIC16F818
PIC16F84
PIC16F84A
PIC16F87
PIC16F873A
PIC16F874A
PIC16F876A
PIC16F877
PIC16F877A
PIC16F88
PIC16F913
PIC16F914
PIC16F916
PIC16F917
PIC18F258
PIC18F442
PIC18F448
PIC18F452
PIC18F1320
PIC18F458
PIC18F6620
PIC18F6720
PIC18F8620
PIC18F8720
PIC18F4539
PIC18F2320
PIC18F4320
PIC18F1220
PIC18F252
PIC18F242
PIC18F248
PIC18F2220
PIC18F2320
PIC18F2331
PIC18F2420
PIC18F2431
PIC18F2455
PIC18F2480
PIC18F252
PIC18F2520
PIC18F2525
PIC18F2539
PIC18F2550

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PIC18F2580
PIC18F2585
PIC18F2620
PIC18F2680
PIC18F442
PIC18F4220
PIC18F4320
PIC18F4331
PIC18F4420
PIC18F4431
PIC18F4480
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PIC18F458
PIC18F4580
PIC18F4585
PIC18F4620
PIC18F4680
PIC18F6585
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dsPIC30F6010

5. Disclaimers

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