**IC Programming Solutions**

EE Tools’ main goal is to develop and manufacture the most sophisticated, reliable, fast stand-alone and PC-based device programmers which will surpass those introduced by the manufacturers from the Far East.

- All products made in the USA  
- Free software updates for life  
- Guaranteed fast and competitive programming speed and reliability

### ChipMax Low Cost Universal Programmer

- Parallel port interface  
- Input voltage: 5V  
- 40-pin ZIF socket  
- No. of devices supported: 8,000+  
- Supports: Flash EPROM, EPROM, EEPROM, Microcontroller, PALCE, GAL

### ChipMax2 Low Cost Fast Universal Programmer

- USB interface  
- 48-pin ZIF socket  
- Input voltage: 5V, 3.3V, 2.7V, 1.8V  
- No. of devices supported: 15,000+  
- Supports: NAND Flash Memory, Standard Flash Memory, EEPROM, EPROM, Serial PROM, GAL, FPGA, MCU

### TopMaxxx High Speed Universal Programmer

- USB 2.0 PC interface  
- 48-pin ZIF socket  
- Input voltage: 5V, 3.3V, 1.8V  
- No. of devices supported: 20,000+  
- Supports: NAND Flash Memory, Standard Flash Memory, EPROM, EEPROM, Serial PROM, PAL, GAL, FPGA, MCU

### USB Handy Universal IC Writer

This IC writer can automatically detect device pin insertion in order to provide great connectivity and avoid mistakes while programming.

- Supported devices: EPROMS, EEPROMS, FLASH, Serial EEPROM, NV-RAMS, Microcontrollers, DSP, PLDs, and more  
- Fast programming: it only takes 20 seconds to process 1Mbit Flash memory  
- Graphic operation software  
- Auto-programming and system self-test functions  
- Supports low-voltage components for programming  
- Compatible with Windows® 98/ME/2000/XP  
- System self-test function  
- Device processing interface

**RFID Design Lab**

The RFID design lab will read, detect and verify UID data within the first SEEPROM, while automatically storing it into the second SEEPROM the date and time as a login record. By default the induction board is set to use an USB interface, but can be configured for serial interface.

- LP-2010 TRF960 induction board  
- 16 x 2 LCD monitor  
- RS-232 or USB interface for RFID chip-board  
- Status lamp (green/yellow/orange/red) and buzzer  
- 2 individual relays with connector for open/close operation

Includes:

- Power cables, USB-A to USB-B cable, CD w/ demo program & manual

### PSTART PIC Device Programmer

This PIC device programmer is manufactured under license from Microchip Technology and provides a highly flexible and low-cost tool for designing microcontrollers.

- Serial RS232 port  
- Built-in editor, assembler and simulator  
- Supports most DIP-packaged PIC microcontrollers available from Microchip  
- Power consumption: 10W max.

- Operated with Microchip’s free Integrated Development Environment MPLAB

- Reads, programs, and verifies all configuration bits

- Reads, programs, and verifies EPROM and EEPROM program and data memory

Includes:

- RS-232 cable, DC Power adaptor, CD-ROM user’s manual

### Flash Writer/Programmer with USB Interface

- Supports Flash EPROMs, EEPROMs & EPROMs  
- Type, read, load, edit, checksum, erase, blank check, program, verify, protect functions

- Programs 8-bit Flash serial ICs via USB cable on Windows® 9x/2000/XP  
- High speed: only 22 seconds to blank check, program and verify MXIC MX29F040

- File formats supported: binary & machine code, Intel HEX, Motorola HEX, Tektronix

Includes:

- USB cable, 12V @ 500mA adapter, CD-ROM software and manual

### USB AVR Programmer

This programmer emulates an AVRISP v2 on a virtual serial port, making it compatible with standard AVR programming software.

- In-system programmer (ISP)  
- Extremely compact  
- Compatible with Windows XP, Windows Vista, Windows 7, and Linux

Includes:

- 6-pin ISP programming cable and USB-A to mini-B cable

### USBtinyISP AVR Programmer Kit – v2.0

The USBtinyISP is a simple open-source USB AVR programmer and SPI interface. It’s a low-cost, simple solder kit, and has both 6 and 10-pin standard ISP cables. Works with AVRdude and AVRDStudio-compatible and tested under Windows® XP, Linux & MacOS X.

**NOTE:** Does not do JTAG or high voltage programming.

- Max clock rate: 400kHz  
- Read/write speed: 2kb/s, 1kb/s

- 2 status LEDs: “USB/Power Good” and “Busy”  
- I/O buffering allows programming of 2V-6V targets

- Powered off 5V USB bus @ <100mA  
- 26 pieces

Includes:

- PCB, enclosure, MCU, and components

Requires:

- USB-A to USB-B cable (P/N 222608, pg 152, not included)

### USB PIC Programmer

More than 300 PIC microcontrollers are supported and support for future devices can be added via FLASH firmware updates. Intelligent voltage regulation allows programming of the new, low voltage PIC® MCUs as well as standard 5V devices.

- Dual color indicator shows ready/busy states

- Full featured, command-line operation  
- Fast full speed USB data transfer

- Standard USB cable (Type A male to Type B male)  
- HID interface

- Automatic Vdd and Vpp adjustment for different PIC MCUs

- Size: 2.3” x 1.8”

- In-Circuit Serial Programming (ICSP) connector for interface to project board

- Compatible with microchip HEX format files & all programming adapters

### MicroEngineering Labs

**USB PIC Programmer**

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**Notes:**

- For additional products, availability, and additional specifications visit Jameco.com and enter the web code in the product search box

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