UNIVERSAL SPI PROGRAMMER ON USB PORT
FOR SERIAL EEPROMs, PIC MICROCONTROLERS, ATMEL MICROCONTROLERS, TEXAS

PRESTO

SEEIT Programmers

Introduction:

This programmer enables the in-situ programming of PIC microcontrollers, ATMEL microcontrollers and serial EEPROMs, thanks to its JTAG/SPI interface. It permits you to directly program the devices soldered on printed circuits or devices in special packages without having to add an adapter. The PRESTO plugs in the USB port of your PC and connects directly to the devices with the help of 7 wires. PRESTO doesn' require external power supply.
It operates with any system equipped with Windows 98SE/ME/2000/XP/VISTA/Windows7 (32bit and 64 bit) and Linux.

Features:

High speed
PRESTO is optimized for high speed, for example it programs and verifies a full PIC18F8720 in 6 seconds! (3 seconds for programming and 3 seconds for verification). Complete eCOG1 in less than 3 seconds.

Enhanced programming interface
In-Circuit Serial Programming (ICSP) or In-System Programming (ISP) is a very beneficial and frequently used MCU feature. PRESTO directly supports this function using a dedicated connector and an included cable. The target application device can be either powered by PRESTO (5 V nominally) or powered by an application within a voltage range of 3 to 5 V (with a ±10% tolerance, i.e. 2.7 to 5.5 V). The voltage range can be extended by two special headers - HPR3V3 (for 3.3 V output) and HPR1V2 (for 1.2 to 3.3 V support). Overcurrent limitation on target supply and programming voltages remarkably reduces the risk of damaging parts because of operator error. Target supply overvoltage detection is also implemented.

Advanced software
The program UP supports PRESTO as well as other ASIX' programmers. It offers many advanced functions like projects, command line control, Windows message control, workspace setup including user keyboard shortcut definitions, serial number generation by various methods, etc. Devices with JTAG interface and eCOG microcontrollers are supported by dedicated programs JTAG SVF Player and eCOG Programmer, respectively. Microcontrollers with 32-bit ARM core are supported by OpenOCD and some of them also by easy-to-use Armine application. The advanced control of the PRESTO programmer can be made using a PRESTO .DLL Library. Software upgrades are freely available for all users on the Internet. They contain new device support, new functions and algorithm updates if required.

Comfortable user interface
GO button allows the user to comfortably start the device programming, without the need for a PC keyboard or a mouse. LEDs indicate programmer status - green LED ON-LINE signals a working USB connection and yellow LED ACTIVE indicates that PRESTO is operating (programming, reading, ...).

Item includes:

Programmer
SPI cable.
USB cable.
Software on CD.
User manual in English and French.

www.seeit.fr

PRESTO

Supported devices:

MICROCHIP : PIC10Fxxx
PIC12Fxxx / PIC12Cxxx / rfPIC12
PIC16Fxxx / PIC16Cxxx
PIC18Fxxx
PIC24Fxxx / PIC24FJxxx / PIC24FVxxx / PIC24HJxxx
PIC32MXxxx / dsPIC30Fxxx / dsPIC33FJxxx

ATMEL : AT90CANxxx / AT90PWxxx / AT90Sxxx / AT90USBxxx
ATmegaxxx / ATtinyxxx / ATxmegaxxx
AT32UCxxx
AT89LPxxx / AT89LSxxx / AT89Sxxx

TEXAS : MSP430F1xxx / MSP430F2xxx / MSP430F4xxx / MSP430F5xxx
MSP430FExxx / MSP430FGxxx / MSP430FWxxx / MSP430G

CHIPCON : CC430Fxxx / CCxxxx

CYPRESS : CY8Cxxx

I2C EEPROM : 24AAxx / 24Cxx / 24FCxxx / 24LCxxx

SPI EEPROM : 25AAxx / 25LCxxx / AT25xxx / M95xxx

SPI FLASH EPROM : AT25DFxxx / AT25Fxxx / AT26DFxxx / AT45DBxxx / M25Pxxx
MX25Lxxx / PM25LVxxx / S25FLxxx / SST25VFxxx / W25Qxxx

MicroWire EEPROM : 93AAxx / 93Cxx / 93LCxx / M93Sxx

Optional adapters:

HPR3V3 is an optional accessory to the PRESTO programmer for programming of stand-alone 3.3 V devices (as for example DataFlash Memories). The PRESTO programmer can supply a programmed device with 5 V. However, some devices require 3.3 V supply voltage and 3.3 V logic levels on their pins. In such case, the HPR3V3 level shifter or an external 3.3 V power supply have to be used.

HPR1V2 is an optional accessory to the PRESTO programmer for programming of the devices with supply voltage and logical levels between 1.2 and 3.3 V (as for example Xilinx CoolRunner-II). The PRESTO programmer can program devices with signal levels between 3 and 5 V ±10 %, but sometimes it is necessary to program a device with lower voltage levels. In such case, the HPR1V2 level shifter must be used.
HPR1V2 must be used with external supply voltage from application, it cannot be supplied from the programmer.

HPRAVR is optional accessory to the PRESTO programmer for programming of the AVR microcontrollers in an application with standard ISP10PIN connector. This connector is usually used on the boards with the AVR processors like STK500.

ISP2ZIF is an adapter for programming of all types of devices with In-Circuit Serial/In-System Programming (ICSP/ISP), especially with the PRESTO programmer. The adapter is provided with the 40-pin Zero Insertion Force socket (ZIF) which accepts 300 to 600 mils wide devices.


HPR3V3


HPR1V2


HPRAVR


ISP2ZIF