MICROCONTROLLER & MEMORY PROGRAMMERS

MPLAB PM3 UNIVERSAL DEVICE PROGRAMMER





MICROCHIP

- RS-232 or USB Interface
- ICSP™ Integrated Circuit Serial Programming

• 3 Operating Modes (PC Host Mode, Safe Mode, Standalone Mode)

The MPLAB® PM3 programs Microchip's entire line of PICmicro® MCU devices as well as the latest dsPIC30F DSC devices. The programmer has exceptional programming speed to allow high volume production, and includes a Secure Digital /Multimedia Card slot for easy and secure data storage and transfer. Programmer includes 40 socket pins, allowing each socket module to be configured to support many devices. The socket module adapter (AC164350) allows current PROMATE® II socket modules to be used with the MPLAB® PM3 programmer

		Price Each
Mfg. Part No.	Stock No.	1+
PICmicro, dsPIC30F		
DV007004	88H6738	1072.92
PIM 78734	•	

MSP430 GANG PROGRAMMER





Features

- 3x Faster than the previous MSP-GANG430 GANG programmer
- Quickly and reliably program Flash or FRAM-based MSP devices
- Both RS-232 and USB interface
- Several programming modes
- Intuitive GUI for configuring, programming and testing production setup SD Card slot for storing images
- LCD screen for easy programming without a PC
 Supports up to 8 targets simultaneously
- Supports all current and future MSP430 devices

The MSP-GANG is a production programmer for MSP430 device that can program up to eight identical MSP430 flash or FRAM devices at the same time. The MSP Gang Programmer connects to a host PC using a standard RS232 or USB connection and provides flexible programming options that allow the user to fully customize the process. The MSP Gang programmer is provided with an expansion board, called the Cang splitter, that implements the interconnections between the MSP Gang programmer and multiple target devices. Eight cables are provided that connect the expansion board to eight target devices (via JTAG or Syp b wire connectors). The programming can be done with a PC or as a standalone device. A PC side graphical user interface is also available and is DLL based.

		Price Each
Mfg. Part No.	Stock No.	1+
MSP430		
MSP-GANG	64T3682	

PIM 100982

PICKIT 3 IN-CIRCUIT DEBUGGER ONLY





- PICkit 3 allows debugging and programming of
- PIC and dsPIC Flash MCU's Expensive sockets or adapters are not required
- Minimum of additional hardware needed for debug
- · Built in over voltage/short circuit monitor
- Supports low voltage up to 2volts
 Compatible with MPLAB ICD 2, MPLAB ICD 3 and MPLAB REAL ICE

The PG164130 is a PICkit 3 in circuit debugger/programmer uses in circuit debugging logic incorporated into each chip with Flash memory to provide a low cost hardware debugger and programmer. The MPLAB PICkit 3 allows debugging and programming of PIC and dsPIC flash microcontrollers using the powerful graphical user interface of the MPLAB integrated development environment (IDE).

		Price Each
Mfg. Part No.	Stock No.	1+
In-Circuit Debugger / Programmer		
PG164130	25R8311	
PIM 176998		

SOCKET MODULES



Socket modules enable Microchip programmers, emulators and debuggers to handle multiple package types These socket modules can be ordered as accessories.

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SOCKET MODULES (CONT.)

			Price Each
Mfg. Part No.	Description	Stock No.	1+
AC164350	ADAPTER, PROMATE II TO MPLAB PM3	88H5617	129.99
AC164322	SOCKET MODULE	30K7439	359.16
AC164342	SOCKET MODULE, 121 BGA, FOR MPLAB PM3	24R5578	240.97
AC164341	SOCKET MODULE, 16 QFN, FOR MPLAB PM3	45P4595	189.99
AC164302	SOCKET MODULE, 16 SOIC, 28 SOIC, FOR MPLAB PM3	88H5604	224.90
AC164301	SOCKET MODULE, 18 DIP, 28 DIP, FOR MPLAB PM3	29M7850	218.02
AC164306	SOCKET MODULE, 20 TSSOP, FOR MPLAB PM3	88H5608	218.02
AC164307	SOCKET MODULE, 28 SSOP, FOR MPLAB PM3	30M9521	
AC164311	SOCKET MODULE, 44 MQFP, FOR MPLAB PM3	88H5613	189.99
AC164305	SOCKET MODULE, 44 TQFP, FOR MPLAB PM3	30M9520	218.02
AC164343	SOCKET MODULE, 64 QFN, FOR MPLAB PM3	14R8660	199.99
AC164308	SOCKET MODULE, 68 PLCC, FOR MPLAB PM3	88H5610	229.49
AC164340	SOCKET MODULE, 8 DFN, 20 QFN, FOR MPLAB PM3	45P4594	189.99
AC164334	SOCKET MODULE, 8 DFN, FOR MPLAB PM3	25R6827	218.02
AC164309	SOCKET MODULE, PIC, DSPIC, PLCC44, FOR MPLAB PM3	04M5437	218.02
PIM_63675			

ARDUINO MCU DEVLOPMENT PLATFORM







Arduino is an open-source electronics prototyping platform based on flexible, easy-to-use hardware and software. Boards come with defferent controllers and features. Additional functionalities can be added with pre-made shields (daugther cards) or a designer can make custom shields with the available prototyping shields.

Arduino Due is a microcontroller board based on the Atmel SAM3X8E ARM Cortex-M3 CPU. It has 54 digital input/output pins (of which 12 can be used as PWM outputs), 12 analog inputs, 4 UARTs, a 84 MHz clock, an USB OTG capable connection, 2 DAC, 2 TWI, a power jack, an SPI header, a JTAG header, a reset button and an erase button

Arduino Esplora is a microcontroller board derived from the Arduino Leonardo. The Esplora differs from all preceding Arduino boards in that it provides a number of built-in, ready-to-use set of onboard sensors for interaction

Arduino Leonardo is a microcontroller board based on the ATmega32u4. It has 20 digital input/output pins (of which 7 can be used as PWM outputs and 12 as analog inputs), a 16 MHz crystal oscillator, a micro USB connection, a power jack, an ICSP header, and a reset button.

Arduino Mega 2560 is a microcontroller board based on the ATmega2560. It has 54 digital input/output pins (of which 15 can be used as PWM outputs), 16 analog inputs, 4 UARTs, a 16 MHz crystal oscillator, a USB connection, a power jack, an ICSP header, and a reset button.

Arduino MEGA ADK is a microcontroller board based on the ATmega2560. It has a USB host interface to connect with Android based phones. It has 54 digital input/output pins (of which 15 can be used as PWM outputs), 16 analog inputs, 4 UARTs, a 16 MHz crystal oscillator, a USB connection, a power jack, an ICSP header, and a reset button.

Arduino Micro is the smallest board of the family, easy to integrate it in everyday objects to make them interactive. The Micro is based on the ATmega32U4 microcontroller featuring a built-in USB which makes the Micro recognisable as a mouse or keyboard.

Arduino Uno is a microcontroller board based on the ATmega328P (datasheet). It has 14 digital input/output pins (of which 6 can be used as PWM outputs), 6 analog inputs, a 16 MHz quartz crystal, a USB connection, a power jack, an ICSP header and a reset button.

Arduino Uno SMD is a version of the Arduino Uno, but uses an surface mount version of the Atmega328F Ardulino Unio simb is a versioni in the Audioni orino, but bees an isunaco misun version in the instance of the through-hole version. It has 14 digital input/output pins (of which 6 can be used as PUM outputs), 6 analog inputs, a 16 MHz crystal oscillator, a USB connection, a power jack, an ICSP header, and a reset

Arduino Nano is a small, complete, and breadboard-friendly board based on the ATmega328 (Arduino Nano 3.x). It has more or less the same functionality of the Arduino Duemilanove, but in a different package.

			Price Each
Mfg. Part No.	Description	Stock No.	1+
• A000062	Arduino Due Board	47W2961	33.54
• A000095	Arduino Esplora Board	63W3549	
• A000052	Arduino Leonardo Board with Headers	07W3935	19.90
• A000057	Arduino Leonardo Board without Headers	07W3936	
• A000067	Arduino Mega 2560 REV3 Board	45W6205	47.26
• A000053	Arduino Micro Board with Headers	63W3544	20.64
• A000093	Arduino Micro Board without Headers	63W3548	19.48
• A000066	Arduino Uno Board	78T1601	21.07
● K000007	Arduino Uno Development Kit	47W2965	84.95
• A000073	Arduino Uno SMD R3 Board	63W3545	20.64
A000010	Arduino Uno Workshop Kit	13T9277	
A000005	Audiono Nano Board	13T9275	18.58



