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MPLAB® PM3 Universal Device Programmer

Summary

The MPLAB PM3 Universal Device Programmer is easy to use and operates with a PC or as a stand-alone unit, and programs Microchip's entire line of PICmicro® devices as well as the latest dsPIC30F DSC devices. The MPLAB PM3 features a large and bright LCD unit (128x64 pixels) to display easy menus, programming statistics and status information.

The MPLAB PM3 programmer has exceptional programming speed to allow high production throughput, especially important for large memory devices, and includes a Secure Digital/Multimedia Card slot for easy and secure data storage and transfer.

The MPLAB PM3 programmer is designed with 40 programmable socket pins, allowing each socket module to be configured to support many different devices, requiring fewer socket modules to support the entire line of Microchip parts. The socket modules use multi-pin connectors for high reliability and quick interchange. An adapter allows current PROMATE® II socket modules to be used on the MPLAB PM3 programmer.

When connected to a PC-host system either via a serial or USB port, the MPLAB PM3 programmer is seamlessly integrated with the MPLAB Integrated Development Environment (IDE) providing an exceptionally user-friendly interface for the ultimate control during programming. The MPLAB IDE includes a full-featured macro assembler, powerful software simulator with symbolic debugger, color-coded programmer's editor, project manager, high-level language debugging and support for Microchip and selected third party development tools, including compilers, low-cost in-circuit debuggers and full-featured in-circuit emulators.

Features

Key features of the MPLAB PM3 Programmer include:

- RS-232 or USB interface
- Integrated In Circuit Serial Programming™ (ICSP™) interface
- Fast programming time
- Three operating modes:
  - PC Host mode for full control
  - Safe mode for secure data
  - Standalone mode for programming without a PC
- Complete line of interchangeable socket modules to support all Microchip devices and package options (sold separately)



Features (Continued)

- SQTP℠ serialization for programming unique serial numbers while in PC Host mode.
- An alternate DOS command line interface is available for batch control
- Supports PROMATE II socket modules via adapter (sold separately)
- Large easy-to-read display
- Field upgradeable firmware allows quick new device support
- Secure Digital (SD) and Multimedia Card (MMC) external memory support
- Buzzer notification for noisy environments

Package Contents

- MPLAB PM3 programming unit
- Serial Cable for RS-232 PC connection
- USB cable for USB PC connection
- ICSP cable
- Power supply and power cables
- MPLAB Integrated Development Environment CD
- User's Guide and technical documentation on CD

Host System Requirements

- PC-compatible system with an Intel Pentium® class or higher processor, or equivalent
- Serial or USB port
- Microsoft Windows® 98 Second Edition, Windows ME, Windows 2000 or Windows XP

MICROCHIP
Development Systems
Microchip Technology Incorporated

Part Numbers and Ordering Information:

MPLAB PM3 Universal Microchip Device Programmer		
Part Number	**Description**	**Availability**
DV007004	MPLAB PM3 Programmer Unit	Q1 2004
AC164301	40P DIP Socket Module	Q1 2004
AC164302	16L (.150″)/28L (.300″) SOIC	Q1 2004
AC164303	64L TQFP SOIC Socket	Q1 2004
AC164304	80L TQFP Socket	Q1 2004
AC164305	44L TQFP Socket	Q1 2004
AC164306	20L TSSOP Socket	Q1 2004
AC164307	28L SSOP Socket	Q1 2004
AC164308	68L PLCC Socket	Q1 2004
AC164309	44L PLCC Socket	Q1 2004
AC164310	84L PLCC Socket	Q1 2004
AC164311	44L MQFP SOIC Socket	Q1 2004
AC164312	16L (.208″) SOIC Socket	Q1 2004
AC164313	64L PF (14x14) Socket	Q1 2004
AC164314	80L PF (14x14) Socket	Q1 2004
AC164350	PROMATE II to PM3 Socket Module Adapter	Q1 2004

Supported Devices: All PICmicro® MCU and dsPIC30F devices are supported.

Development Tools from Microchip	
MPLAB® IDE	Integrated Development Environment (IDE)
MPASM™ Assembler	Universal PICmicro® Macro-Assembler
MPLINK™ Linker/MPLIB™ Librarian	Linker/Librarian
MPLAB SIM Simulator	Software Simulator
MPLAB C18	C Compiler for PIC18CXXX MCUs
MPLAB C30	C Compiler for dsPIC30F MCUs
PICkit™ 1	Flash Starter Kit
MPLAB ICD 2	In-Circuit Debugger
MPLAB ICE 2000	Full-featured Modular In-Circuit Emulator for PIC12, PIC16 and PIC18 MCUs
MPLAB ICE 4000	Full-featured Modular In-Circuit Emulator for PIC18 and dsPIC MCUs
PICSTART® Plus Programmer	Entry-level Development Kit with Programmer
MPLAB PM3 Device Programmer	Full-featured, Modular Device Programmer
KEELOQ® Evaluation Kit	Encoder/Decoder Evaluator
microID™ Developer's Kit	125 kHz and 13.56 MHz RFID Development Tools

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As of 9/1/03

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