# Intel Flash Memory Programmer



The Intel Flash Memory Programmer provides system designers with an extremely fast prototyping tool supporting the full line of Intel Flash memories.

A significant enhancement to its predecessor, FlashPRO, the Intel Flash Memory Programmer adds the ability to:

- Support logic levels below 5V
- · Program devices at near theoretical performance
- Support all TSOP lead counts via a single socket module

New devices are supported upon their introduction via software upgrades posted on Intel's World Wide Web site.

Socket modules are sold separately; you buy only what you need. This keeps your cost down, while providing quick-turn support for future devices.

# PRODUCT DESCRIPTION

The Intel Flash Memory Programmer is a high-performance engineering programmer. It attaches to a standard parallel port, thereby reducing cost by using some of the PC's resources. With this programmer, system designers can program and erase all Intel Flash memory devices. User-selectable block locking/unlocking support is available for devices having that functionality.

Support for a particular device requires use of a separately-available socket module (please see ordering information on reverse). Family module boards come with the base tool and are another integral part of the system. They keep costs down by routing power and ground for different device families via inexpensive circuit boards with SIMM-like connector edges.

The included user's manual provides information on supported file formats, system requirements, menu commands, status and settings displays, buffer editor usage, macro file (FLSHPRO2.INI) usage, troubleshooting, and technical support contacts.

As well as being very user-friendly, the FLSHPRO2 graphical interface is similar to the previous FlashPRO and D,FLASHEVAL interfaces, reducing the user's learning curve. On-line help guides users through the tool's extensive capabilities without requiring them to access instruction manuals. Because of its intuitive menu structure and on-line help, even new users will be programming quickly.

# **PRODUCT HIGHLIGHTS**

- Advanced-capability engineering programmer - Support capability below 5V logic levels
  - Extremely fast programming performance
  - 56-lead TSOP socket module supports all lead counts
- Intuitive, easy-to-use menus - Easy transition for existing FlashPRO and D,FLASHEVAL users
- FLSHPRO2 software updates are maintained on Intel's World Wide Web site
- Cost-effective modular support - Buy only what you need
  - Each socket module supports all devices in that package
- Socket modules for all packages
  - 56/48/40-ball µBGA\* 60-pin Miniature Card
  - 56-lead TSOP<sup>i</sup> — 48-pin DIP - 44-lead PSOP
  - 32-lead PLCC - 56-lead SSOP
    - 68-pin PC Card

SOLUTIONS EVERY STEP OF THE WAY

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BENEFITS
<ul> <li>Uses PC's resources—lowers the base unit cost</li> </ul>
<ul> <li>Socket modules support all device families in a given package—reduces number of upgrade pieces</li> </ul>
<ul> <li>Similar to FlashPRO iFLASH3/D,FLASHEVAL iFLASH2 software—shortened learning curve</li> </ul>
<ul> <li>Ease of use—quicker time to programming</li> </ul>

### SUPPORT TOOLS

The latest version of FLSHPRO2 software will be maintained on Intel's World Wide Web site under the developers area.

#### Other Intel Flash Memory documents include:

- Flash Memory Tools and Software Quick Reference Guide (Lit. Order #297610)
- Small Outline Package Guide (Lit. Order #296514)
- Comprehensive User's Guide for µBGA\* Packages (Lit. Order #297846)

#### TOOL CONTENTS

### **Base Tool**

- One (1) Intel Flash Memory Programmer
- Two (2) Power/GND Routing Boards
- One (1) User's Manual
- One (1) Quick Installation Guide
- One (1) 3.5" Floppy Disk with FLSHPRO2 Software

JAPAN

Ibakari

300-26

5-6 Todokai.

Tsukuba-shi

- One (1) Intel World Wide Web Brochure
- One (1) Product Brief
- One (1) Registration Card

#### Socket Modules

One (1) Socket Module of type selected



#### TOOL ORDERING INFORMATION

Ordering information for this tool is on the World Wide Web within Intel's Development Tools site at:

## http://developer.intel.com/design/develop.htm

From the main page, select "Electronic Tools Catalog," then "Flash Memory Components or Cards" or select "Flash Memory" from the Quick Navigator Bar, then select "Electronic Tools Catalog" (for components or cards).

Once at the tool search engine, select "Programmer-Engineering" from the tool type drop-down list, which will present all engineering programmers available in the Intel database. Select Intel Flash Memory Programmer from that list.

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World Wide Web Home Page	http://www.intel.com/
Application Bulletin Board System	(916) 356-3600
Other Intel Support:	
Intel Literature Center	(800) 548-4725 7 a.m. to 7 p.m. CST (U.S. and Canada) International locations please contact your local sales office.
Retail PC and Network Products	(800) 538-3373 or (503) 629-7000 7 a.m. to 7 p.m. PST
General Information Hotline	(800) 628-8686 or (916) 356-3104 5 a.m. to 5 p.m. PST
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