

## Product Brief

MPCNVMGMDPB/D  
Rev 0.1, 8/2002

General Market Driver (GMD)  
Flash Program/Erase  
Software Product Brief



The General Market Driver (GMD) series of Flash program/erase drivers is intended to provide free, Motorola-certified Flash program/erase capability to both embedded boot loader developers and third-party Flash programming tool developers working with Motorola embedded Flash parts.

Motorola's market leading GMD software driver:

- Runs from anywhere in RAM or ROM
- Runs standalone under debug port control for programming and tool applications
- Can be embedded in a user's boot loader application
- Supports concurrent operations
- Is packaged as a set of tool-independent binary executables
- Is certified via extensive testing by an SEI Level 5 software organization
- Has excellent documentation
- Has pre-built demonstration codes illustrating all driver capabilities
- Is free!

With Motorola's GMD Flash program/erase software, all capabilities of the embedded Flash technology are exposed to the software application space in a small, flexible, and powerful function set. Each of the software functions listed below is packaged as an independent binary executable so the end user has maximum control of the code space:

- Initialize – Set up the Flash module and perform system checks
- Program – Program single or multiple Flash sectors
- Erase – Erase single or multiple Flash blocks
- BlankCheck – Check Flash memory space for the erased condition
- Verify – Verify Flash memory space against a reference pattern
- Checksum – Quickly verify data integrity of Flash memory space
- Security – Change security settings

Motorola GMD Flash program/erase software is available for a number of custom and general market embedded Flash parts, including:

- MPC555, MPC563, and MPC565 (without code compression)
- MPC564 and MPC566 (with code compression)
- MC68F375
- MMC2107

**For More Information On This Product,  
Go to: [www.freescale.com](http://www.freescale.com)**

## Revision History

To download the free GMD software for general market embedded Flash parts, visit the Motorola Semiconductor Product Sector web site at <http://e-www.motorola.com/> and search for “NVM,” “NVM\_GMD,” or the product name. For custom parts, please contact your Motorola representative.

### 1.1 Revision History

Revision Level	Description
0	Initial release.
0.1	Bullets added to feature list, “memory” specified as “Flash memory,” devices added to parts list.

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# Freescale Semiconductor, Inc.

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