

Fact Sheet

NVMSSDFS/D
8/2002

Standard Software Driver
(SSD) FLASH Program/Erase
Software



General Description

The standard software driver (SSD) series of non-volatile memory (NVM) 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 SSD software driver:

- Runs from anywhere in RAM or ROM
- Runs standalone under debug port control for programming 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 SSD NVM program/erase software, all capabilities of the embedded NVM 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 NVM module and perform system checks
- Program — Program single or multiple NVM sectors
- Erase — Erase single or multiple NVM blocks
- BlankCheck — Check NVM space for the erased condition
- Verify — Verify NVM space against a reference pattern

- Checksum — Quickly verify data integrity of NVM space
- Security — Change security settings

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

- MC9S12DG256, MC9S12DJ256, MC9S12DP256, MC9S12DT256
- MC9S12DG128, MC9S12DJ128, MC9S12DP128, MC9S12DT128
- MC9S12H256
- MMC2114

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

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Freescale Semiconductor, Inc.

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