

NX-SFK-UNI

UNIVERSAL SERIAL FLASH DEVELOPMENT KIT

PRELIMINARY
AUGUST 1999

FEATURES

- **PC-based Development for Serial Flash**
 - Directly supports Serial Flash Modules
 - Supports Serial Flash Memories with optional Socket Cards
 - 3V and 5V operation
 - 25Fxxx SPI and 26Fxxx NXS interfaces
- **Complete Development and Prototype Solution**
 - NX-SFM-PORT Adapter, software and manual
 - Serial Flash Module and connector samples
- **SFM Socket Cards for other Packages (Optional)**
 - NX-ST-T28-SFM; 28-pin TSOPII to SFM
 - NX-ST-V28-SFM; 28-pin TSOP to SFM
 - NX-ST-UNI-SFM; DIP to SFM with test points
- **Simplifies and Speeds Development**
 - Use “C” source routines as templates
 - Pre-program SFM or TSOP from binary PC files
 - SFM is easily moved between kit and prototype for fast interrogation and modification
- **SPI-SFK Development Software**
 - “C” source code
 - “Makefile” support for popular compilers
 - Working examples of data sheet commands:
Read from Sector, Write to Sector, Write/Verify, Write/Read with ECC
 - Read/Display device information
 - Read device to binary file.
 - Program (write) device from binary file



Port Adapter with SFM Inserted

SFK-UNI CONTENTS

- PC Port Adapter: NX-SFM-PORT
- Parallel Port Cable
- Extra batteries (#CR2032)
- SFK Development Software (Executable files, “C” Source code, and “Makefiles”)
- Serial Flash Development Kit Users Manual
- Sample SFMs:
 - NX25M080A, NX25M011A
 - NX26M080A, NX26M011A
- SFM slide-in connectors:
 - NX-ST-CCMO3-3504 (or similar)
- **SFK SYSTEM REQUIREMENTS**
 - IBM PC-Compatible Computer (486 or greater)
 - Standard PC Parallel Port with DB25 Connector
 - MS-DOS (3.0 or greater), Windows 95, Windows 3.x(Note: Windows NT systems are not yet supported)

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DESCRIPTION

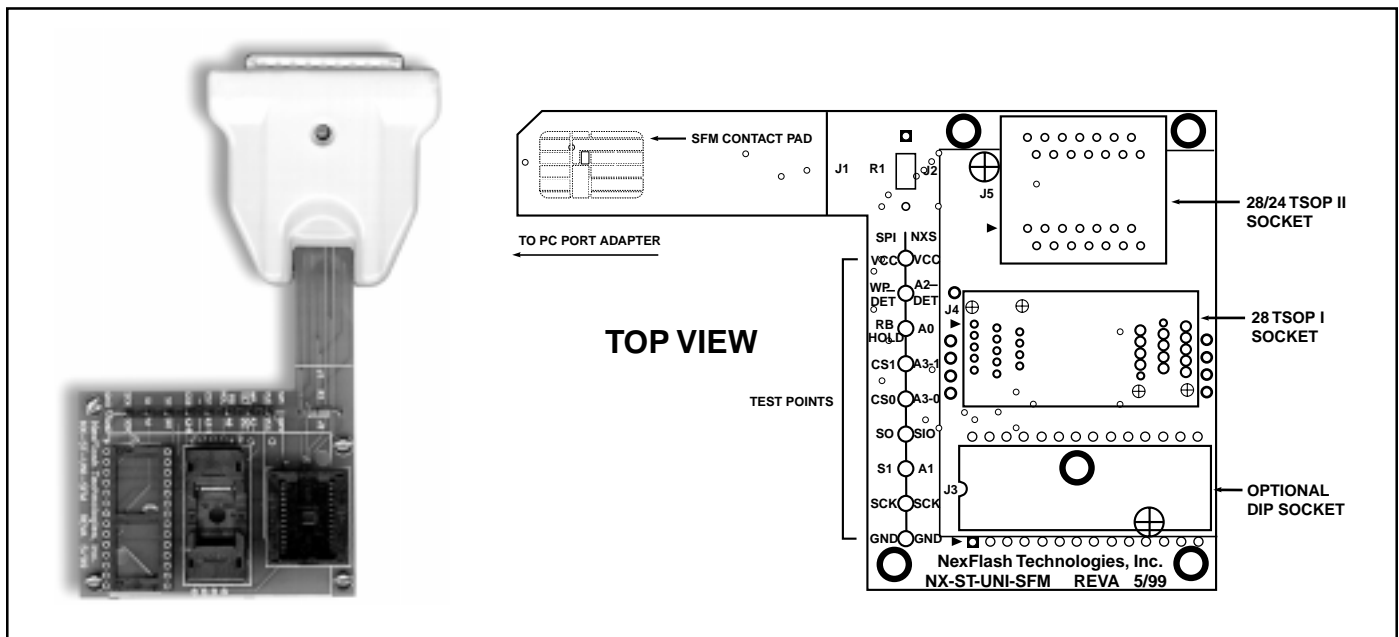
The Universal Serial Flash Development Kit (SFK-UNI) from NexFlash is a simple and cost effective solution for system designers interested in learning about and designing with NexFlash Serial Flash products. The SFK and associated accessories provide the basic hardware and software needed to develop with and program NexFlash 25Fxxx SPI and 26Fxxx NXS Serial Flash Memories and removable Serial Flash Modules (SFMs).

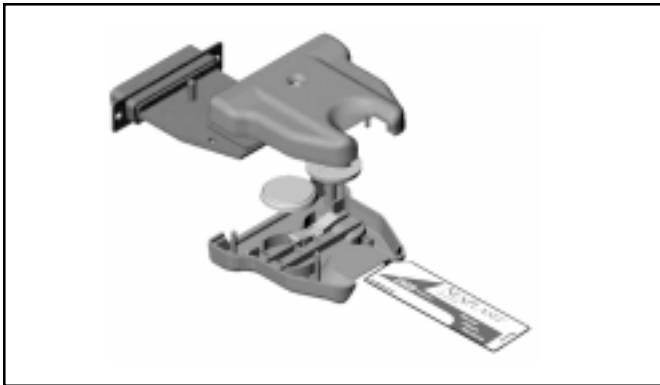
The SFK-UNI hardware includes an SFM-Port Adapter (that connects to the parallel port of a PC), a parallel port cable, batteries, and sample SFMs and SFM connectors. The SFM Port Adapter supports 3V and 5V, SPI and NXS Serial Flash Modules. Optional Socket Cards can be inserted into the SFM Port Adapter to support development and programming of alternate packages such as TSOPs, Smart Cards or custom modules. The Socket Card also provides convenient test points for probing signals during development. Using SFMs when prototyping, rather than surface mount packages, can greatly simplify the development process. SFMs can easily be moved between the prototype and the SFK for quick interrogation and modification.

The SFK-UNI software includes a well documented set of "C" Source code routines, which serve as examples of the 25Fxxx and 26Fxxx data sheet command sequences such as Read from Sector, Write to Sector, and Read Device Information Sector. Special example routines such as "Write/Verify" and "Write/Read with ECC" are also provided. These examples can be used as templates for user firmware. The software includes "Makefile" support, allowing the routines to be compiled with many popular "C" code compilers from Borland, Microsoft, and GNU-GCC. Pre-compiled executables are also included, enabling immediate access to the Serial Flash using a simple command-line syntax within DOS or from a Windows DOS Shell.

The SFK-UNI software also provides several useful utilities. A Device Formatter conditions the Serial Flash array to its factory programmed state. The DIS Parser reads and displays the Device Information Sector. A versatile Programmer allows for reading and writing binary files to and from the Serial Flash using one of four formatting methods with user specified addressing. Additionally, a Windows 95 driver is included that allows the PC Port Adapter to read and write Serial Flash Memories and Modules as a floppy drive.

SFM Port Adapter with Optional Socket Cards for use with TSOPs and other Packages





Port Adapter Battery Installation (#CR 2032)

SERIAL FLASH DEVELOPMENT TOOLS, SFM ADAPTERS AND ACCESSORIES ORDERING INFORMATION

Category	Part # **	Description
Development Kit	NX-SFK-UNI	Universal Serial Flash Dev. Kit with SFM Sample Pack
SFM Adapter	NX-SFM-PORT	SFM Parallel Port Adapter
Socket Cards	NX-ST-UNI-SFM	DIP Socket on SFK-UNI Dev. Kit
	NX-ST-T28-SFM	28 pin TSOP2 ZIF Socket for SFK-UNI Dev. Kit
	NX-ST-V28-SFM	28 pin TSOP1 ZIF Socket for SFK-UNI Dev. Kit
Accessories	NX-ST-CCM03-3504	ITT Cannon SFM Slide-in Connector
	NX-ST-PS4	SFM Protective Sleeve (4 slots)



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