



## DSP Bit Development Tools

### DSP56303EVM Kit



The DSP56303 Evaluation Module is designed as a low-cost platform for developing real-time software and hardware products to support applications in wireless, telecommunications and multimedia products using multi-line voice/date/fax processing, videoconferencing, audio applications, control and general digital signal processing. PC-compatible computer (90MHz or higher) running Windows 95 or NT4 with an RS-232 serial port. 12 Mbytes RAM, 3-1/2 inch diskette drive, CD-ROM drive, hard drive with 20 Mbytes of free disk space. Power supply 7-9 V AC or DC 500 mA with 2.1 mm coaxial connector, (not included) (recommended Digi-Key part number T353-P5P-ND).

**Kit Contents:** • DSP56303EVM board • DSP56300 literature • Suite56 for Freescale DSP 563xx • Freescale The DSP56300 Family Documentation • Domain Technologies Debugger for DSP563xxEVM

DSP563XXEVM-ND ..... \$452.20

### DSP56309EVM Kit

The DSP56309 Evaluation Module (DSP56309EVM) is a low-cost platform for developing real-time software and hardware products to support a new generation of wireless, telecommunications and multimedia applications. The DSP56309EVM targets applications requiring a large amount of on-chip memory, such as wireless infrastructure applications. PC compatible computer (Pentium-90 MHz or higher) running Windows 95 (or higher) with an RS-232 serial port. Requires Power supply 7-9 VDC, 500mA, (not included) (recommended Digi-Key part number T353-P5P-ND).

**Kit Contents:** • DSP56309EVM Board • GUI Debugger Software Disk • DSP56309EVM User's Manual and Other Documentation • Assembler Linker-Test files disk

DSP56309EVM-ND ..... \$310.95

### DSP56311EVM Kit

The DSP56311 Evaluation Module (EVM) is used to demonstrate the abilities of the DSP56311 device and provide a hardware tool to allow development of applications that use the DSP56311. The DSP56311EVM includes a DSP56311 device, peripheral expansion connectors, external memory and a voice codec. The peripheral expansion connectors allow for signal monitoring and user-feature expandability. **Kit Contents:** • DSP56311EVM Board • Parallel port extender cable • Plastic standoffs and plastic screws • DSP56300 Tools Software • Device and Tools Documentation • Tutorial/example software • DSP56311EVM Development Tools Release Notes • DSP56311EVM Product Installation Guide

DSP56311EVM-ND ..... \$395.68

### DSP56L307EVM Kit

The DSP56L307 Evaluation Module (EVM) is used to demonstrate the abilities of the DSP56L307 and provide a hardware tool allowing the development of applications that use the DSP56L307. It is an evaluation module board that includes a DSP56L307 part, peripheral expansion connectors, external memory and a voice codec. The peripheral expansion connectors are used for signal monitoring and user-feature expandability. The DSP56L307EVM is used to facilitate the evaluation of various features of the DSP56L307. It can be used to develop real-time software and hardware products based on the DSP56L307. It provides the features necessary for a user to write and debug software, to demonstrate the functionality of that software and to be able to interface with the customer's application specific device(s). The DSP56L307EVM is flexible enough to allow the user to fully exploit the features of the DSP56L307.

**Kit Contents:** • DS56L307EVM board • Parallel port extender cable • Plastic standoffs and plastic screws • Power supply, 12V, 1.2 Amps • Suite56 Software Development Tools CD-ROM • Documentation CD-ROM

DSP56L307EVM-ND ..... \$452.20

### DSP56F800DEMO Kit

The 56F800 Demonstration Board is used to demonstrate the abilities of the 56F800 family and to provide a hardware tool allowing the development of applications that use the 56F800 devices. The DSP56F800DEMO Kit is a low cost kit that contains everything you need to quickly evaluate the features and capabilities of the DSP56F800 silicon and tools. It also provides an excellent cost effective vehicle for hardware and software development. The DSP56F800DEMO Kit is targeted for use on PC Compatible systems running Windows 95, Windows 98 and Windows NT 4.0.

**Kit Contents:** • Demo board • Parallel cable • Complimentary CodeWarrior™ license, 8K word program memory limit • SDK CD • Instructions for kit • Training CD • US power supply

DSP56F800DEMO-ND ..... \$56.47

### MC56F8323EVM Kit

The MC56F8323EVM is a low-cost kit that contains everything you need to quickly evaluate the features and capabilities of the MC56F8322 and MC56F8323 hybrid controller silicon and tools. **Kit Contents:** • MC56F8323EVM board • Installation guide • Switch mode power supply (12 Volt) • Parallel cable • CodeWarrior™ • Development studio for 56800/E special edition

MC56F8323EVM-ND ..... \$337.91

## CodeWarrior™ Software



This industry-leading Integrated Development Environment (IDE) enables the engineer to generate highly optimized, ANSI-Compliant C and Assembly code.

**Features:** • Processor Expert generator for on-chip peripherals • Full Chip simulation • Includes assembler, linker, debugger and flash programmer

The Dongle allows for a single node-lock copy of CodeWarrior™ to be used on multiple computers.

License Type	Compiler Code Size	Digi-Key Part No.	Price Each	Freescale Part No.
Node	Unlimited	CWS-H08-STDED-CX-ND	3107.41	CWS-H08-STDED-CX
Node	32K	CWS-H08-C32K-CX-ND	559.72	CWS-H08-C32K-CX
Node	64K	CWS-H08-C64K-CX-ND	1124.97	CWS-H08-C64K-CX
Node	Unlimited	CWS-H12-STDED-CX-ND	3982.02	CWS-H12-STDED-CX
—	—	CWH-DONGLE-ND	111.92	CWH-DONGLE

## Panasonic® Flash Microcontrollers — 8-Bit



The MN101C series of 8-bit single-chip microcontroller incorporates multiple types of peripheral functions. This chip series is well suited for camera, VCR, MD, TV, CD, LD, printer, telephone, home automation products, pager, air conditioner, PCC remote control, fax machine, musical instrument and other applications. The MN101C series brings to embedded microcontroller applications flexible, optimized hardware configurations and simple efficient instruction set.

RAM (Bytes)	Flash (Bytes)	Timer/Counter	I/O Pins	Speed (µs)	Operating Voltage	Serial Interfaces	Interrupts	A/D Pins	D/A Pins	LCD	Package	Digi-Key Part No.	Price Each		
													1	25	100
1.5K	32K	8-Bit x 5 16-Bit x 2	39	0.1 0.118 0.235 62.5	3.0 - 3.6 2.7 - 3.6 1.8 - 3.6 1.8 - 3.6	Synchronous Type/UART x 2 Synchronous Type/ Single-Master I <sup>2</sup> C x 1 I <sup>2</sup> C Slave x 1	22	7	—	SEG 12 COM 4	48-TQFP	MN101CF78AXN-ND	9.41	8.48	7.52
6K	128K	8-Bit x 5 16-Bit x 1	53	0.1 0.2 62.5	2.5 - 3.6 2.1 - 3.6 1.8 - 3.6	Synchronous Type/UART x 2 Synchronous Type/ Single-Master I <sup>2</sup> C x 1 I <sup>2</sup> C Slave x 1	22	7	2	—	64-LQFP	MN101CF77GXN-ND	15.43	13.89	12.32
10K	224K	8-Bit x 6 16-Bit x 1	88	0.1 62.5	4.5 - 5.5 2.0 - 5.5	Synchronous Type x 1 Synchronous Type/UART x 2 Synchronous Type/ Single-Master I <sup>2</sup> C x 1	23	8	4	—	100-QFP	MN101CF49KXN-ND	17.49	16.33	15.16

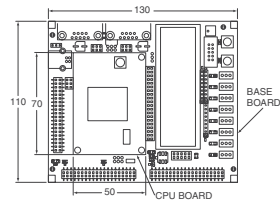
### AM1 Starter Kit

Introductory starter kit for the FLASH MEMORY version of an 8-bit 1-chip CPU manufactured by Matsushita Electric Industrial Co., Ltd.

**Features:** • Equipped toggle-switches, serial communication function and LCD/LED display • C compiler and source code debugger • One-time C compiler upgrading is allowed from our website after purchasing • Simple debugger compatible with PanaX series with USB I/F • USB 1.1 for Host PC interface • Choice of USB 1.1 bus power or an external extension connector for power supply • CPU Board can be separately put in the evaluation system • Sample program and tutorial are included

**Kit Contents:** • USB Cable • External connection cable • CD • Software license and product warranty • Quick start up guide and registration guide • C source code debugger (Debug Factory Builder AM1 Starter Kit) • C compiler • CPU manual and sample program (MN101CF49K/70G/78A) • Online help-setup manual

MMK01-C49-ND	Evaluation Kit for MN101CF49KXN	\$358.50	MMC01-C49-ND	CPU Board for MN101CF49KXN	\$148.50
MMK01-C77-ND	Evaluation Kit for MN101CF77GXN	\$358.50	MMC01-C77-ND	CPU Board for MN101CF77GXN	\$148.50
MMK01-C78-ND	Evaluation Kit for MN101CF78AXN	\$358.50	MMC01-C78-ND	CPU Board for MN101CF78AXN	\$148.50
MMB01-001-ND	Base Board for MN101C Evaluation Kit	\$295.50			



### AM1 Debug Probe

**Features:** • AM1 Debug Probe achieves onboard debugging by containing the debug monitor in the AM1 (MN101C) built-in flash memory of the user target and utilizing the AM1 (MN101C) serial port to communicate with PC. • The hardware of AM1 Debug Probe is common to AM1 (MN101C) series. When developing the other AM1 (MN101C) series, the new types can be added by purchasing the appropriate Debug Factory Builder. • Usable as a flash writer by programming the debug monitor in your AM1 (MN101C) in advance. • Simply started up with USB connection to PC. No external power supply is needed because AM1 Debug Probe operates by USB bus power.

**Contents:** • AM1 Debug Probe • Target connection cable • USB cable • Integrated programming development tool "DebugFactory Builder" (supporting 1 type) • Debug monitor programmed AM1 chip

MDP01-C49-ND	Debug Probe for MN101CF49KXN	\$636.00
MDP01-C77-ND	Debug Probe for MN101CF77GXN	\$636.00
MDP01-C78-ND	Debug Probe for MN101CF78AXN	\$636.00

### DebugFactory Builder for AM1 Debug Probe

**Features:** • Integrated development tool for the programming of AM1 (MN101C) series • Provides efficient debug environments, such as C source code leveled step execution, inspection, watching, breakpoint setting, etc. • Easy-to-switch with simple operation eases effective development work • Included with Evaluation Kits

Contents:	• Editor • Make tool • Debugger	
MDS01-C49-ND	DebugFactory for MN101CF49KXN	\$358.50
MDS01-C77-ND	DebugFactory for MN101CF77GXN	\$358.50
MDS01-C78-ND	DebugFactory for MN101CF78AXN	\$358.50

More Product Available Online: [www.digkey.com](http://www.digkey.com)

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