

# 56F8000 Series Development Kits

### **Features of DEMO56F8013 and DEMO56F8014 Kits**

- > Free permanent license for CodeWarrior™ Development Studio (up to 16 KB)
- > Uses MC56F8013 or MC56F8014 digital signal controller with an on-chip oscillator
- > Includes parallel port to JTAG adapter, universal power supply and cables for out-of-the-box development
- > Onboard expansion capabilities for development activities and simple interface to expansion daughter cards
- > Processor Expert™ tool with software libraries
- > Training CD-ROM

### **Features of MC56F8037EVM Kit**

- > Free permanent license for CodeWarrior Development Studio (up to 16 KB)
- > Uses MC56F8037 digital signal controller with an on-chip oscillator
- > Includes USB to JTAG adapter (USB-TAP) and USB cables (power over USB)
- > Onboard expansion capabilities for development activities and simple interface to expansion daughter cards
- > Processor Expert tool with software libraries
- > Demonstration application

### **56F8000 Demonstration Kits**

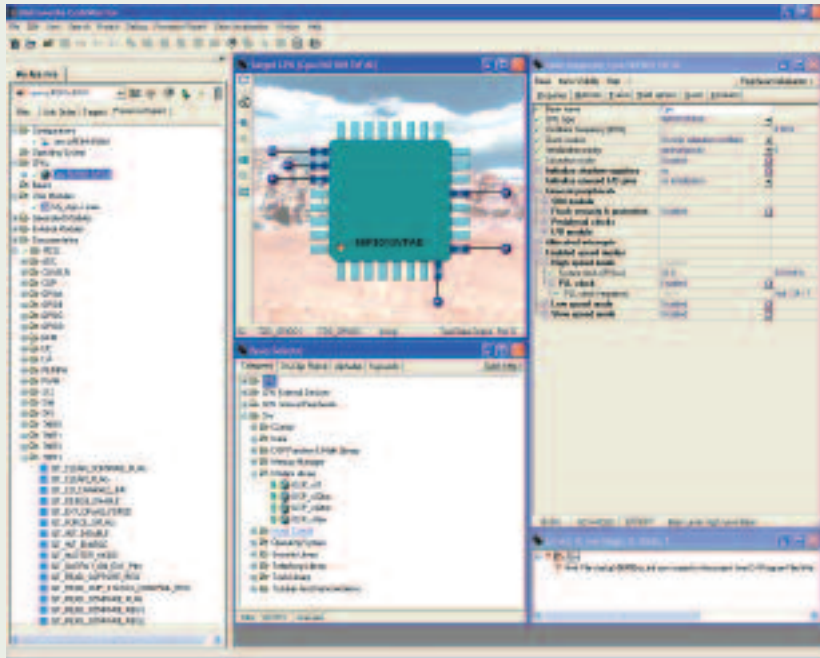
The kits allow designers to develop and evaluate applications for 56F8000 series digital signal controllers. These kits include a development board that uses a 32 MIPS MC56F8013, MC56F8014 or MC56F8037 digital signal controller with an on-chip oscillator. These boards also include an expansion connector for easy interface to 56F8000 daughter cards. For rapid application development, the kits include the award-winning CodeWarrior Development Studio for 56800/E with Processor Expert technology. CodeWarrior tools allow for development, compiling, linking and debugging applications, while the Processor Expert tool provides access to fully debugged peripheral drivers, libraries and example applications. A free CodeWarrior permanent license for development, up to 16 KB code size, on 56F80xx devices can be obtained with simple web-based registration.



MC56F8037EVM Development Kit

### Preprogrammed Sample Applications

- > Highlights the high level of software and peripheral integration in the 56F8000 for motor control applications
- > Illustrates how the integrated pulse-width modulator is easy to use for control of three-phase, brushless DC motors



### Ordering Information

Description	Order Number
<b>56F8000 Development Kits Ordering Information (RoHS Compliant)</b>	
MC56F8013 development kit with universal power supply	DEMO56F8013-EE
MC56F8014 development kit with universal power supply	DEMO56F8014-EE
MC56F8037 development kit for 802x/803x products	MC56F8037EVM
<b>56F8000 Accessory Ordering Information (RoHS Compliant)</b>	
Motor control daughter card	APMOTOR56F8000E
MC56F8013 socket daughter card for Flash programming	CPA56F8013E
MC56F8014 socket daughter card for Flash programming	CPA56F8014E
USB to JTAG adapter (USB-TAP)	CWH-UTP-ONCE-HE

**Learn More:** For more information about Freescale's digital signal controllers, please visit [www.freescale.com/dsc](http://www.freescale.com/dsc).

### Product Information

#### Fact Sheet

Summary of features and target markets for the entire 56F8000 Series of Digital Signal Controllers  
**Order Number:**  
 MC56F8000FS

#### Product Briefs

Summary description and block diagram of the 56F800E core, memory, peripherals and interfaces for each of the 56F8000 Series Digital Signal Controllers  
**Order Numbers:**  
 MC56F8013PB  
 MC56F8014PB  
 MC56F8023PB  
 MC56F8025PB  
 MC56F8036PB  
 MC56F8037PB

#### Technical Data Sheets

Electrical and timing specifications, device-specific peripheral information, and package and pin descriptions  
**Order Numbers:**  
 MC56F8013  
 MC56F8014  
 MC56F8023  
 MC56F8025  
 MC56F8036  
 MC56F8037

#### DSP56800E Reference Manual

Detailed description of the DSP56800E architecture, 16-bit core processor and the instruction set  
**Order Number:**  
 DSP56800ERM

#### 56F801x Peripheral Reference Manual

Detailed descriptions of peripherals found on the 56F801x family devices  
**Order Number:**  
 MC56F8000RM

#### 56F802x and 56F803x Peripheral Reference Manual

Detailed descriptions of peripherals found on the 56F802x and 56F803x family devices  
**Order Number:**  
 MC56F80XXRM