56F8300/56F8100 Demonstration Kit

56F8300/56F8100 Demonstration Kit

Expanding Freescale Semiconductor's successful 56F800 demonstration kit, the advanced 56F8300/56F8100 Developers Starter Kit brings demonstration, evaluation and development capabilities to the 56F8300 and 56F8100 series of digital signal controllers.

This comprehensive kit includes a demonstration board that uses the 60 MIPS 56F8323 digital signal controller with on-chip oscillator to illustrate the enhanced capabilities of the 56F8300/56F8100 Series. To demonstrate some typical 56F8300/56F8100 applications in which processing power must be combined with remote sensing capabilities, the MC56F8300DSK integrates Freescale's MC33794 e-field sensor. It also features a built-in JTAG-to-parallel port command converter, with parallel cable included, providing fast and simple out-of-the box debugging.

For rapid application development, the 56F8300/56F8100 Demonstration Kit includes the award-winning CodeWarrior™ Development Studio for 56800/E with Processor Expert™ (PE) technology. The multitiered CodeWarrior tool allows development, compiling, linking and debugging applications with a complimentary permanent license (limited to 16 KB). Processor Expert technology provides fully debugged peripheral drivers, libraries and interfaces that allow the programmer to create unique C application code independent of component architecture.

Freescale combines the demonstration board, CodeWarrior Development Studio with Processor Expert technology, preprogrammed sample applications and an extensive, self-paced training CD-ROM to create a comprehensive, scalable tools solution for easy, fast and efficient development.
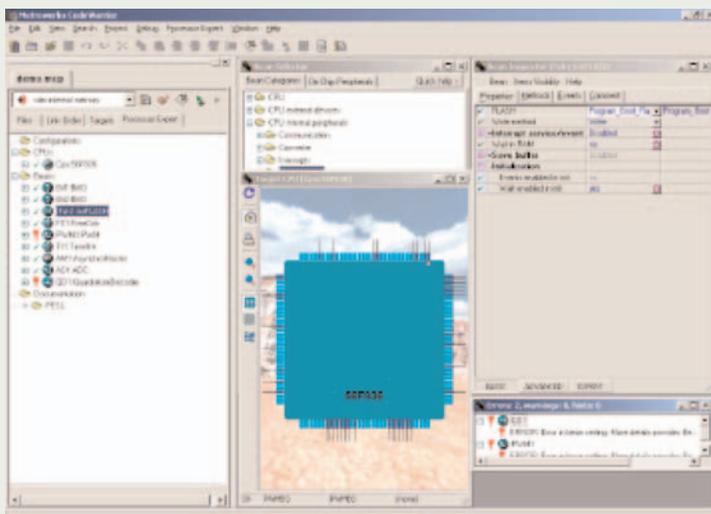
Features

> Complimentary permanent license for CodeWarrior Development Studio (up to 16 KB)

> Uses 60 MHz 56F8323 digital signal controller with on-chip oscillator

> Integrated MC33794 e-field sensor

> Preprogrammed sample applications

> Onboard expansion capabilities for development activities

> Onboard JTAG-to-parallel port command converter and parallel cable

> Universal power supply

> Processor Expert tool with software libraries and training CD-ROMs

freescale™
semiconductor

Preprogrammed Sample Applications

> Voice recording and playback

> E-field sensor control

> Fault control using on-chip temperature sensor

> Fast interrupt example

> On-chip timer demonstration

Product Information

56F8300 Peripheral User Manual	Detailed peripheral descriptions of the 56F8300 series of devices **Order Number:** MC56F8300UM
56F8322/8122 56F8323/8123 Technical Data Sheets	Electrical and timing specifications, device-specific peripheral information, and package and pin descriptions **Order Number:** MC56F8322 **Order Number:** MC56F8323
56F8322/8122 56F8323/8123 Product Briefs	Summary description and block diagram of the 56F8322/23 core, memory, peripherals and interfaces **Order Number:** MC56F8322PB MC56F8122PB **Order Number:** MC56F8323PB MC56F8123PB
DSP56800E Reference Manual	Detailed description of the DSP56800E architecture, 16-bit core processor and the instruction set **Order Number:** DSP56800ERM

ORDERING INFORMATION

Description	Order Number
Demonstration kit with universal power supply	MC56F8300DSK

Learn More: For more information about Freescale products, please visit **www.freescale.com**.

freescale™
semiconductor