Digital Signal Controllers

56F800, 56F8300/8100, 56F8000 and 56850 Series Hardware Development Tools

Freescale Semiconductor’s comprehensive processor evaluation kits provide an exceptional out-of-box experience, containing the tools required to quickly begin processor evaluation.

The 56F800, 56F8300/8100, 56F8000 and 56850 processor series are supported with a comprehensive and scalable development environment enabling rapid evaluation and concurrent hardware, software and system development, speeding your product to completion. Our solutions are all supported with an evaluation module (EVM) kit and/or demonstration kit that has everything required to evaluate and start development on your project.

Each EVM/demo board includes:

> Full-featured CodeWarrior™ Development Studio with Processor Expert™ technology
> Processor Expert tool with peripheral drivers, libraries, applications and interfaces
> Full-featured processor evaluation board with full emulation
> All required cabling and power supplies
> Complete documentation and training material

Each EVM is fully supported by Processor Expert software and by an extensive and expanding line of add-on development system boards, enabling application-specific development of voice and data telecommunications systems and digital audio, as well as motion and industrial control. All of our solutions are also supported by a complete line of hardware emulation tools that attach to the JTAG port of the processors.
### Evaluation Modules and Development Modules Matrix

**EVM Kits for the 56F800 Series**
- DSP56F801EVM: Evaluation kit for the 56F801 processor
- DSP56F803EVM: Evaluation kit for the 56F803 processor
- DSP56F805EVM: Evaluation kit for the 56F805 processor
- DSP56F807EVM: Evaluation kit for the 56F807 processor
- DSP56F826EVM: Evaluation kit for the 56F826 processor
- DSP56F827EVM: Evaluation kit for the 56F827 processor
- DSP56F800DEMO: Demo kit for the 56F801/56F802 processor (U.S.)
- DSP56F800DEMO-E: Demo kit for the 56F801/56F802 processor (International)

**EVM Kits for the 56F850 Series**
- DSP56852EVM: Evaluation kit for the 56852 processor
- DSP56858EVM: Evaluation kit for the 56858/57/55/54/53 processors

**EVM Kits for the 56F8000 Series**
- DEMO56F8013: Demo kit for the MC56F8013 processor with U.S. power supply
- DEMO56F8013-E: Demo kit for the MC56F8013 processor with universal power supply
- DEMO56F8014: Demo kit for the MC56F8014 processor with U.S. power supply
- DEMO56F8014-E: Demo kit for the MC56F8014 processor with universal power supply

**EVM Kits for the 56F8300/8100 Series**
- MC56F8367EVM: Evaluation kit for the 56F834x/814x, 56F835x/815x and 56F836x/816x processors
- MC56F8323EVM: Evaluation kit for the 56F8322/8122 and 56F8323/8123 processors
- MC56F8300DSK: Developers Starter Kit for the 56F8300/8100 Series

### Motion Control Development for 56F800 and 56F8300/8100 Series (Supports 56F80XEVMs and 56F83XXEVMs)
- ECMTREVAL: Motor control evaluation kit with a low-voltage power stage and small BLDC motor

### Motor Control Development for the 56F8000 Series (Supports DEMO56F8013 and DEMO56F8013-E)
- APMOTOR56F8000: Motor control demonstration kit with low-voltage power stage and small BLDC motor

### Telecommunications Development for 56F800 and 56850 Series (Supports 56F82XEVMs and 5685XEVMs)
- DSP56800TDC: Development card for voice and data telecommunication applications providing for PSTN network connection, keypad entry and LCD display

### Emulation Tools
- DSPCOMMPARALLEL: Supports JTAG-to-parallel port interface; requires parallel port
- CWH-UTP-ONCE-HX: USB to JTAG adapter

### Flash Programming for 56F8000 Series
- CPA56F8013: LQFP and PDIP socket board for MC56F8013 processor
- CPA56F8014: LQFP and PDIP socket board for MC56F8014 processor

Learn More: For more information about Freescale products, please visit [www.freescale.com](http://www.freescale.com).