



Quick Start Guide for the KIT33816FRDMEVM

Rev. 2.0

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External Use

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Agenda

- Getting to Know the KIT33816FRDMEVM
- Getting Started Out of the Box
- MC33816 Development tools
- Explore Further

External Use



Getting to Know the KIT33816FRDMEVM





Getting to Know the KIT33816FRDMEVM

- MC33816 direct injection pre-driver integrated circuit
- USB-to-SPI dongle interface using the FRDM-KL25Z
- External MOSFETs controlling 4 injectors and 2 fuel pumps
- Power-conditioning circuitry
- +12 V VSUPP provides the power to the MC33816 and the loads







Installing and Running the Out of the Box Demo



Download and Install SPIGEN 7.x from http://www.freescale.com/SPIGEN Plug in a USB cable from a USB host to the KL25Z_USB. The FRDM-KL25Z will be powered by this USB connection.



- Run SPIGEN 7.1 (or latest). LED on KL25Z turns blue
- Connect 14 V / 2.0 A power supply to VBAT connector
- Download and unzip KIT33816-SPIGEN.spi and

KIT33816FRDM-SBCH.zip







Program MC33816 with SPIGEN 7.x

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Click on Open and load the configuration file KIT33816AESW_Rev2.0.spi

- Select Micro Code from left tab
- Set RSTB and DRVEN to High
- Click on Load Filenames and select the SPIGen33816Files.txt file from the KIT33816SW
- Click on Download All, a pop up Download complete window appears.



Click on Enable Flash on CH1 and CH2



Go to tab "Batch Command" and send Startx High and Low control signal to turn the injectors On/Off



NP เพเบง3816 Development Tools









Now that you are familiar with the KIT33816FRDMEVM and SPIGEN, it's time to explore the additional software and user guide available on **www.freescale.com**. Select your next path from the links in the **Jump Start Your Design** section.



External Use 7



Revision	Date	Description of Changes
1.0	10/2014	Initial release
2.0	11/2014	Updated the filename in step 5 on page 4









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