



FS6507, System Basis Chip, ASIL B, DCDC 0.8 A Vcore, LDT, CAN, LIN

KITFS6507LAEVM evaluation board demonstrates the functionality of MC33FS6507 supports CAN FD and LIN with Vcore SMPS regulator up to 0.8 A. These Safety SBCs target ISO 26262 automotive functional safety standard (ASIL B).

NXP's analog product development boards provide an easy-to-use platform for evaluating NXP products. The boards support a range of analog, mixed-signal and power solutions. They incorporate monolithic ICs and system-in-package devices that use proven high-volume SMARTMOS technology. NXP products offer longer battery life, a smaller form factor, reduced component counts, lower cost and improved performance in powering state of the art systems.

The tool can be used in a standalone mode and controlled with an embedded USB interface. SPI command is easily controlled by the FlexGUI downloadable [here](#).

On-Board Devices

Processors and Microcontrollers

KL2x : Kinetis® KL2x-72/96 MHz, USB Ultra-Low-Power Microcontrollers (MCUs) based on Arm® Cortex®-M0+ Core

Power Management

FS6500 : Grade 1 and Grade 0 Safety Power System Basis Chip with CAN Flexible Data Transceiver

Features

Microcontroller KL25Z MCU installed on board for easy connection to host computer on USB link with monitoring features

Connectivity CAN FD and LIN bus (LIN exclusive with FS1B) FS0B and FS1B output pins (FS1B exclusive with LIN) Connectors allowing easy access to digital signals

Power Management V_{CORE} configuration: 1.23 V, 3.3 V, 5.0 V V_{CCA}, V_{AUX} configuration - 3.3 V or 5.0 V, with internal PMOS or external PNP V_{pre} regulator with a Buck or Boost setting.

- Evaluation board
- Cable, Mini USB A to B
- 3x10 pos Connector
- 1x2 pos Connector