Catch our keynote at Computex: NXP CTO Lars Reger unveils our "Brighter Together" approach

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Overview Product

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Support BUY OPTIONS

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/ KITFS86TRKFRDMEM | FS86 Safety SBC Evaluation Board

FS86 Safety SBC Evaluation Board

KITFS86TRKFRDMEM Receive alerts ①



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KITFS86TRKFRDMEM provides easy customer development of the FS86 device family with flexibility to play with all the features of the device and make measurements on the main part of the application. All regulators are accessible through connectors. Nonuser signals, like DC/DC switcher node, are mapped on test points. It targets 24 V transportation (truck and bus) applications.

The KL25Z Freedom connected to the board, combined with the FS86 NXP GUI software, allows you to fully configure and control FS86 SBC. The board can be used in a standalone mode and controlled with a USB interface.

This board is populated with a FS86 family superset part for device evaluation. The FS86 part soldered on the board can be programmed (OTP) two times and it is possible to test as many configurations as needed in emulation mode before and after programming. No extra tools or board are needed for device programming.

Less ^

DESIGN FILES

SOFTWARE

Product Details

Supported Devices | Features | Applications

Supported Devices



System	n Basis Chips
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chip-for-domain-controller-fit-for-asil-b-and-d:FS86): Safety System Basis Chip For Domain

FS86 Safety SBC Evaluation

Documentation

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Features	
Connectivity	 FRDM-KL25Z MCU plugged allows USB connection for easy connection to software GUI (access to I²C bu IOs, Safety outputs, Debug, AMUX, regulators)
	USB connection for register access, OTP emulation and fuse
Power Management	VBAT power supply connectors (Jack and Phoenix, 35 V max)
	 VPRE output capability up to 10 A (external MOSFET)
	 VBOOST 5.0 V or 6.0 V, up to 800 mA
	BUCK up to 2.5 A DC
	 LDO1, from 1.5 V to 5.0 V, up to 400 mA, with load switch capability
	 LDO2, from 1.1 V to 5.0 V, up to 400 mA
	Ignition key switch
General Specifications	FS0B external safety pin
Support	Debug mode access
	Manual or automated OTP fuse programming
	Connectors allowing easy access to digital signals

Components

• LEDs indicate signal and regulator status

• Analog variable resistor to test external VMON

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Applications

Automotive

Automotive High Performance Compute (/applications/automotive/adas-and-safe-driving/automotive-high-performance-compute:AUTOMOTIVE-COMPUTE)

Automotive Vision Systems (/applications/industrial/aerospace/automotive-vision-systems:VISION-PROCESSING-SYSTEMS)

Industrial

Surround View (/pages/surround-view-:SURROUND-VIEW-PARK-ASSIST-SYSTEM)

Diesel Engine Management (/applications/automotive/electrification-and-powertrain/diesel-engine-management:DIESEL-ENGINE-MANAGEMENT)

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