ADD TO CALENDAR (HTTPS://WWW.NXP.COM/DOCS/EN/SUPPORTING-INFORMATION/NXP KEYNOTE AT COMPUTEX LARS REGER CTO - GLOBAL.ICS)

Overview Product

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FS86 Safety SBC Evaluation Board

KITFS86AUTFRDMEM Receive alerts ①



Roll over image to zoom in

assets/ima	assets/ima	assets/ima	assets/ima	assets/ima
boo	boc	boc	boc	boo

The KITFS86AUTFRDMEM 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 12 V automotive applications.

BC. The Board can be used in a standalone mode and controlled with an USB interface.

(//www.nxp.com)

FS86 Safety SBC Evaluation Board

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 often programming. No extra tools or board are needed for device programming.

Documentation

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DESIGN FILES

SOFTWARE

Product Details

Supported Devices | Features | Applications

Supported Devices

Power Management

System Basis Chips

• FS86 (/products/power-management/pmics-and-sbcs/system-basis-chips/safety-system-basis-chip-for-domain-controller-fit-for-asil-b-and-d:FS86): Safety System Basis Chip For Domain Controller, Fit For ASIL B and D

Features

Connectivity

- FRDM-KL25Z MCU plugged allows USB connection for easy connection to software GUI (access to I² bus, IOs, Safety outputs, Debug, AMUX, regulators)
- · USB connection for register access, OTP emulation and fuse
- · Socket to fit and remove device easily

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

- Manual or automated OTP fuse programming
- · Connectors allowing easy access to digital signals

Product Overview nents etails

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Documentation indicate signal and reумпрогт starus ортионя
Resources

GET STARTED (/DOCUMENT/GUIDE/GETTI

Analog variable resistor to test external VMON

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)

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

V2X Communications (/applications/automotive/adas-and-safe-driving/v2x-communications:V2X-COMMUNICATIONS)

Industrial

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

Buy Options

For a quantity of 1

BUY FROM DISTRIBUTOR

KITFS86AUTFRDMEM (/part/KITFS86AUTFRDMEM

FS86 Safety SBC Evaluation Board.

- KITFS86AUTFRDMEM board
- FRDM-KL25Z
- · Power supply mating connectors

