

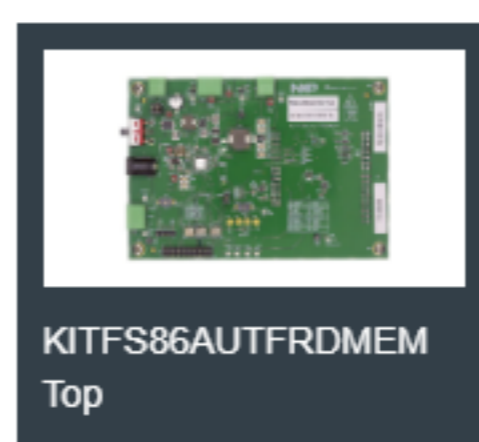
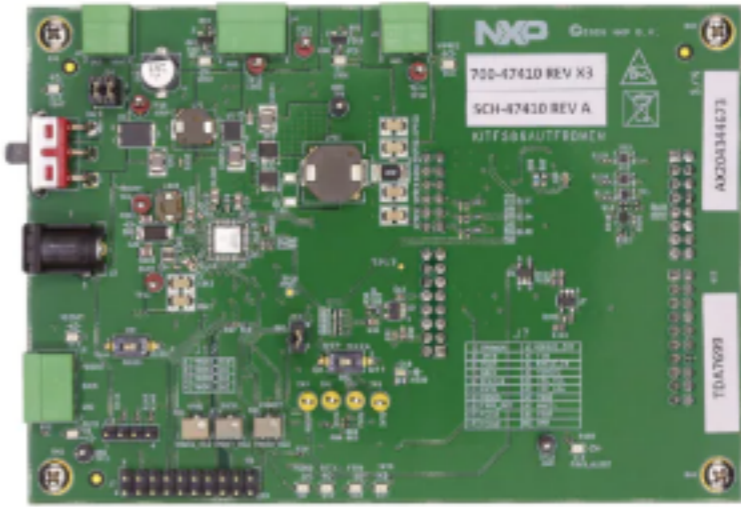
KITFS86AUTFRDMEM: FS86 Safety SBC Evaluation Board

[FOLLOW](#)
[Overview](#) [Specifications](#) [Buy](#) [Design Resources](#)
[GET STARTED](#)

Overview

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.

The KL25Z Freedom connected to the board, combined with the FS86 NXP GUI software, allows to fully configure and control

[More](#)


Specifications

Supported Devices

Power Management	
Safety SBCs	<ul style="list-style-type: none"> FS86: Safety System Basis Chip For Domain Controller, Fit For ASIL B and D

Technical and Functional Specifications

Connectivity	<ul style="list-style-type: none"> 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
Power Management	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> FS0B external safety pin
Support	<ul style="list-style-type: none"> Debug mode access OTP fuse programming Connectors allowing easy access to digital signals
Components	<ul style="list-style-type: none"> LEDs indicate signal and regulator status Analog variable resistor to test external VMON

Buy

KITFS86AUTFRDMEM ACTIVE

FS86 Safety SBC Evaluation Board

- KITFS86AUTFRDMEM board
- FRDM-KL25Z
- Power supply mating connectors
- USB mini cable Type A male / Type B male

1 @ US
\$396.00

[DISTRIBUTOR](#)

Image not available

Related Products

NXP GUI for Automotive PMIC Families
Graphics, UI, and Human Machine Interface

Freedom Development Platform for Kinetis® KL14, KL15, KL24, KL25 MCUs
Evaluation and Development Boards

FS8600 System Basis Chip – Embedded Software Driver
Host Device Drivers



Design Resources

Get Started

- Review these Get Started to get familiar with the hardware specifications.

Get Started

[Getting Started with the KITFS86AUTFRDMEM Evaluation Board](#)

HTML Oct 20, 2021 GS-KITFS86AUTFRDMEM

- Review this user manual to get familiar with the hardware specifications.

User Manual

[UM11668, KITFS86AUTFRDMEM evaluation board - User manual](#)

PDF Rev 1 Oct 28, 2021 UM11668 English

DOCUMENTS (3)

- User Guide (1)
- User Manual (2)

DESIGN RESOURCES (2)

- Design Tools & Files (2)

SOFTWARE (2)

- Development Software (1)
- Embedded Application Software (1)

Documents

User Guide (1)

[Getting Started with the KITFS86AUTFRDMEM Evaluation Board](#)

Getting Started with the KITFS86AUTFRDMEM evaluation board.

HTML Oct 20, 2021 GS-KITFS86AUTFRDMEM English

User Manual (2)

[UM11703, NXP GUI for FS86 Automotive PMIC Family - User Manual](#)

This user guide describes the usage of NXP GUI for Automotive PMIC Families to the development of FS8600 Automotive PMIC family, named here after FS86.

PDF Rev 1.0 Nov 10, 2021 UM11703 English

[UM11668, KITFS86AUTFRDMEM evaluation board - User manual](#)

The KITFS86AUTFRDMEM provides a development platform for evaluating the FS8600 family of devices.

PDF Rev 1 Oct 28, 2021 UM11668 English

Design Resources

Design Tools & Files (2)