



Safety Mini CAN FD SBC for Automotive Applications Fit for ASIL-B

FS24

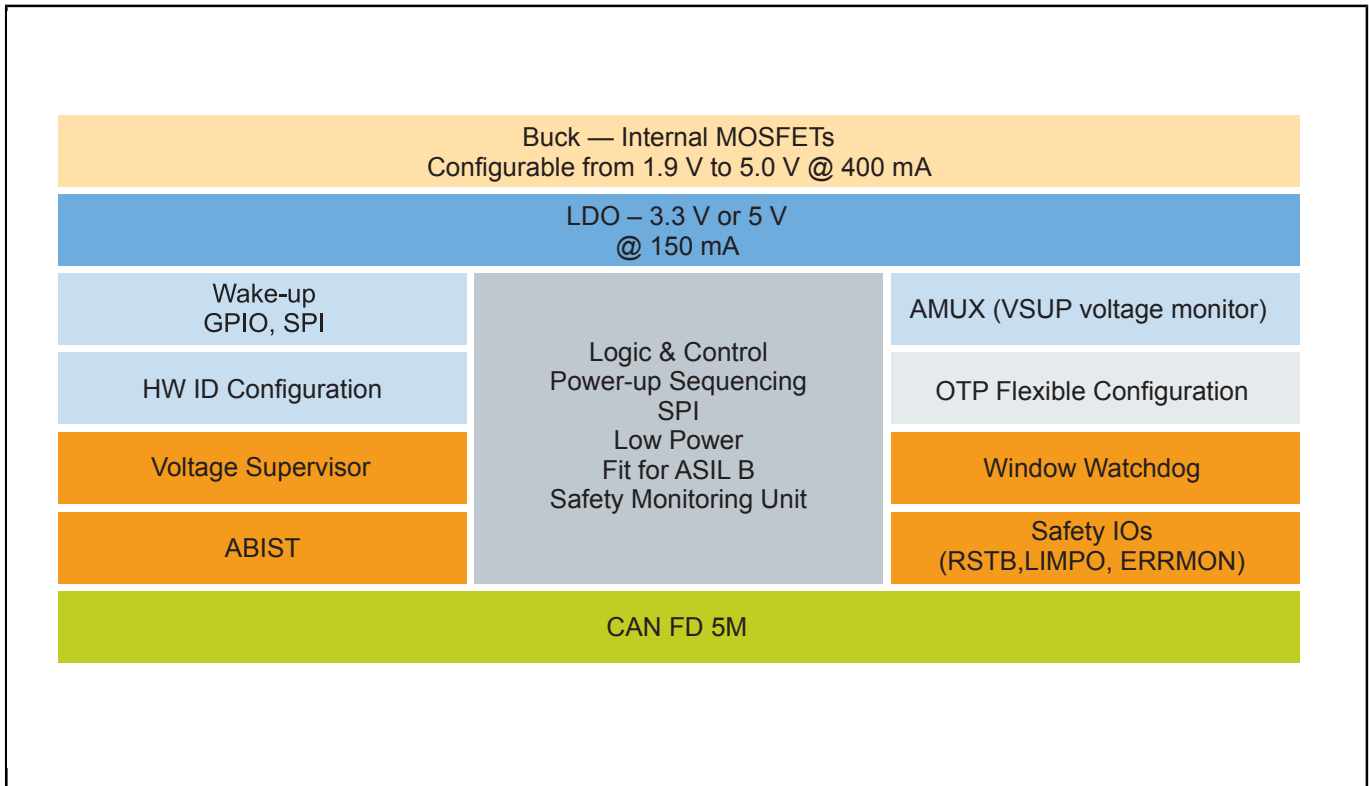
Last Updated: Apr 9, 2024

The FS24 is a family of automotive safety mini CAN FD SBC devices with multiple power supply designed to support secure car access applications using ultra-wideband (UWB), near field communication (NFC) and Bluetooth® Low Energy (LE) devices, while maintaining flexibility to fit other small applications requiring low power and CAN FD communication.

This family of devices supports a wide range of applications, offering choices in output voltage setting, physical interface, integrated system-level features to address low power and noise sensitive applications with automotive safety integrity levels up to ASIL B.

The FS24 integrates a battery-connected switched-mode regulator (V1) and a battery-connected linear regulator (V3) to supply microcontrollers, communication devices and others. V1 offers a high-performance switching regulator capable to operating in pulse frequency modulation (PFM) mode and force PWM (FPWM) mode. The mode of operation can be changed using wake pins to optimize noise management.

FS24 Block Diagram Block Diagram



View additional information for [Safety Mini CAN FD SBC for Automotive Applications Fit for ASIL-B](#).

Note: The information on this document is subject to change without notice.

www.nxp.com

NXP and the NXP logo are trademarks of NXP B.V. All other product or service names are the property of their respective owners. The related technology may be protected by any or all of patents, copyrights, designs and trade secrets. All rights reserved. © 2024 NXP B.V.