

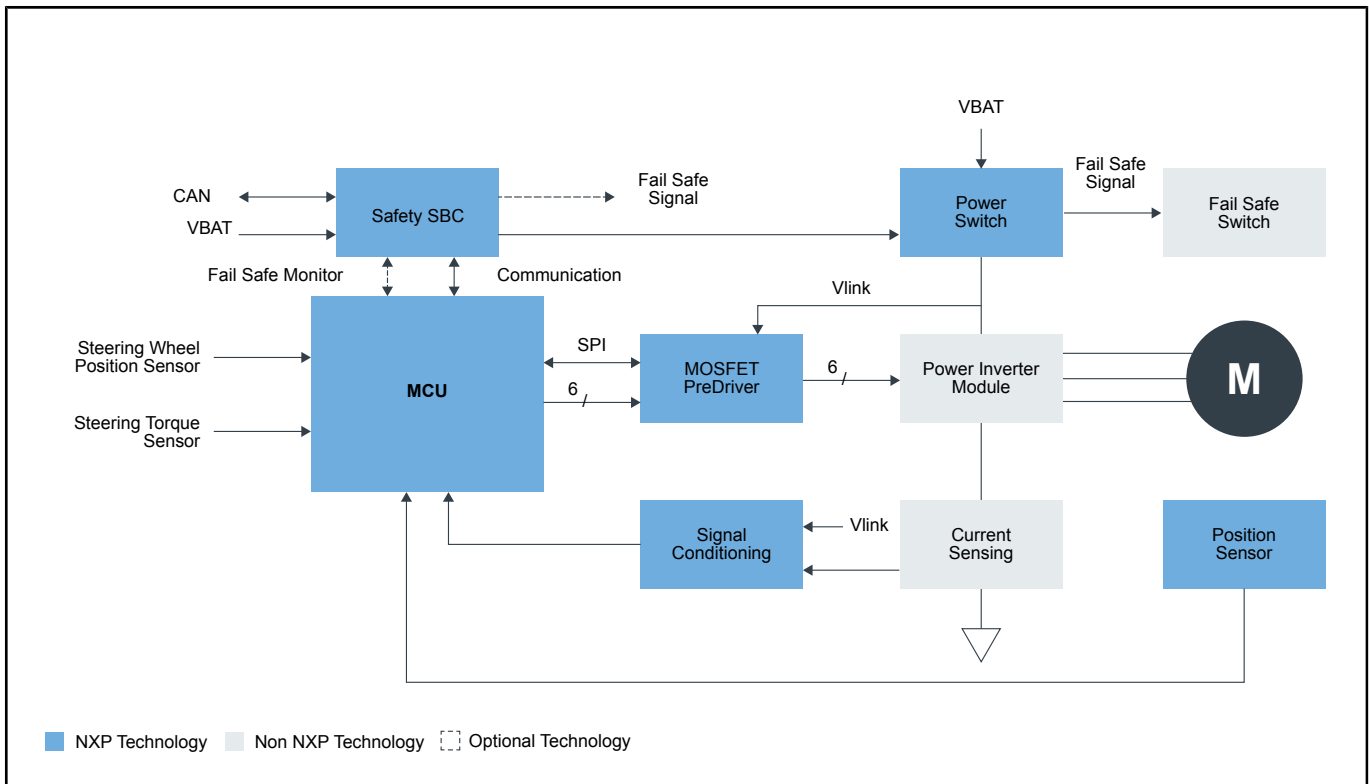


电动助力转向 (EPS)

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电动助力转向 (EPS) 还能增强操控感与转向感, 可根据车辆速度调节转向扭矩, 并在危急驾驶情况下提供主动扭矩, 从而提高车辆的安全性。恩智浦的**16位**和**32位**单核与双核汽车MCU可为复杂的电机控制功能提供增强的计算能力和专用外设。集成电源解决方案也是助力转向控制单元的重要组成部分。它们提供到汽车总线(如**CAN**和**LIN**)的连接。对于**MOSFET**功率模块控制, 集成式预驱动器通常用于直接连接或通过**SPI**连接MCU。

电动助力转向 (EPS) Block Diagram



Recommended Products for 电动助力转向 (EPS)

微控制器(MCU)	<ul style="list-style-type: none">• S32K39-37: S32K39/37微控制器, 面向电气化应用• S32E2: S32E2安全可靠的高性能实时处理器, 支持执行系统
功能安全的SBC	<ul style="list-style-type: none">• FS6500: Grade 1 and Grade 0 Safety Power System Basis Chip with CAN Flexible Data Transceiver

MOSFET预驱动器	<ul style="list-style-type: none">• GD3000: 3相无刷电机预驱动器• MC33937: 3相场效应晶体管预驱动器
信号调适	<ul style="list-style-type: none">• MC33972: 带抑制唤醒功能的MSDI• CD1020: 低成本22通道多开关检测接口
位置传感器	<ul style="list-style-type: none">• KMZ60: 集成放大器的角度传感器

View our complete solution for [电动助力转向\(EPS\)](#).

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