

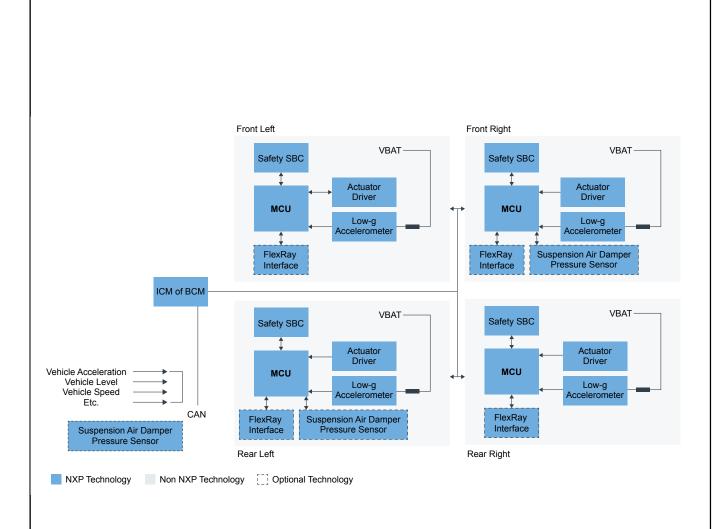
## **Active Suspension**

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NXP solutions enable active suspension systems in today's high-end sports cars and sedans. This offers an adjustable ride, optimized for comfort or handling performance by automatically adjusting the vehicle's wheel and chassis movements according to road conditions.

NXP low g sensors mounted on dampers measure displacement acceleration, while 16-bit single-core and MPC5xxx 32-bit single-core and dual-core MCUs with enhanced computing power and specialized peripherals for control functions enable individual control of the damper coefficient at each wheel.

**Active Suspension Block Diagram** 



## Recommended Products for Active Suspension - MPXx6400: Absolute, Integrated Pressure Sensor (15 to 400 kPa) - Suspension Air Damper Pressure Sensor - FS6500: Grade 1 and Grade 0 Safety Power System Basis Chip with CAN Flexible Data Transceiver - FS4500: Grade 1 and Grade 0 Safety Power System Basis Chip with CAN Flexible Data Transceiver - FS26: Safety System Basis Chip with Low Power, for ASIL D Systems - CAN Transceiver - CAN Transceivers: CAN Transceivers - MPC560xP: Ultra-Reliable MPC560xP MCU for Automotive and Industrial Safety Applications - MPC564xL: Ultra-Reliable Dual-Core 32-bit MCU for Automotive and Industrial Applications

	S32Z2: S32Z2 Safe and Secure High-Performance Real-Time Processors     S32E2: S32E2 Safe and Secure High-Performance Real-Time Processors with Actuation Support
Low-g Accelerometer	• FXLS8964AF: ±2g/±4g/±8g/±16g, Low-Power 12-Bit Digital Accelerometer
FlexRay™ Interface	FlexRay Transceivers: FlexRay Transceivers
Actuator Driver	HB2000: SPI Programmable 10 A H-Bridge Brushed DC Motor Driver     HB2001: SPI Programmable 10 A H-Bridge Brushed DC Motor Driver     MC33926: H-Bridge, Brushed DC Motor Driver, 5-28 V, 5 A, 20 kHz
ICM OR BCM MCU	Gateway: Gateway

View our complete solution for Active Suspension.

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

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