Electric Power Steering (EPS) offers improved handling and steering feel while improving vehicle safety by adopting the steering torque to the vehicle speed and providing active torque in critical driving situations. Our 16-bit and 32-bit single and dual-core automotive MCUs provide enhanced computing power and specialized peripherals for complex electric motor control functions. Integrated power supply solutions are also important elements of a power steering control unit. They provide connectivity to automotive busses, such as CAN and LIN. For MOSFET power stages control, integrated pre-drivers are typically used to interface with the MCU directly or via SPI.

**Recommended Products for Electric Power Steering (EPS)**

| Microcontrollers (MCU) | • S32K39-37: S32K39/37 Microcontrollers for Electrification Applications |
| Safety SBC | • VR5510: Multi-Channel (9) PMIC for S32G Processor – 8 High Power, 1 Low Power, Fit for ASIL D Safety Level  
• FS86: Safety System Basis Chip For Domain Controller, Fit For ASIL B and D  
• S32E2: S32E2 Safe and Secure High-Performance Real-Time Processors with Actuation Support  
• PFS030: Multi-Channel PMIC for Automotive Applications  
• FS26: Safety System Basis Chip with Low Power, for ASIL D Systems  
• TJA1103: ASIL B Compliant 100BASE-T1 Ethernet PHY  
• TJA1462: CAN Signal Improvement Capability Transceiver with Standby Mode  
• TJA144x: Automotive CAN FD Transceiver Family  
• TJA1152: Secure HS-CAN Transceiver with Standby Mode |
| --- | --- |
| MOSFET Pre-Driver | • GD3000: 3-Phase Brushless Motor Pre-Driver  
• MC33937: 3-Phase Field Effect Transistor Pre-Driver |
| Signal Conditioning | • MC33972: MSDI with Suppressed Wakeup  
• CD1020: Low-Cost 22-CH Multiple Switch Detect Interface |
| Position Sensor | • KMZ60: Angle Sensor with Integrated Amplifier |

View our complete solution for Electric Power Steering (EPS).

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

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