

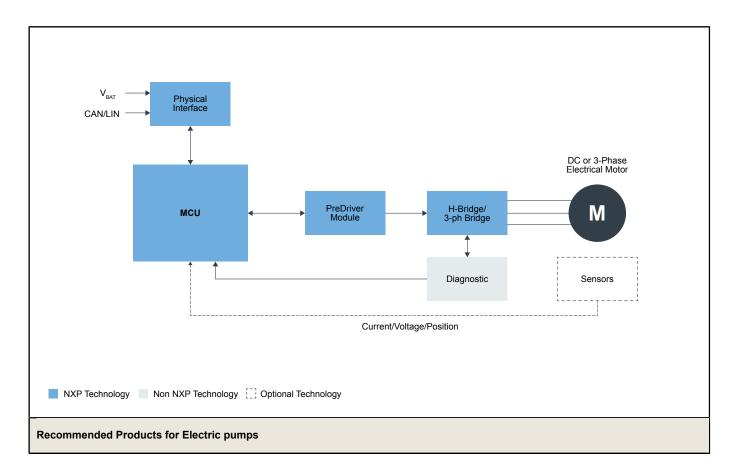
Electric Pumps

Last Updated: Nov 22, 2023

Electrical pumps are more flexible than mechanical pumps as they can be placed closer to what they are pumping when creating a vacuum to tap fuel, water, oil, or coolant from one place to another.

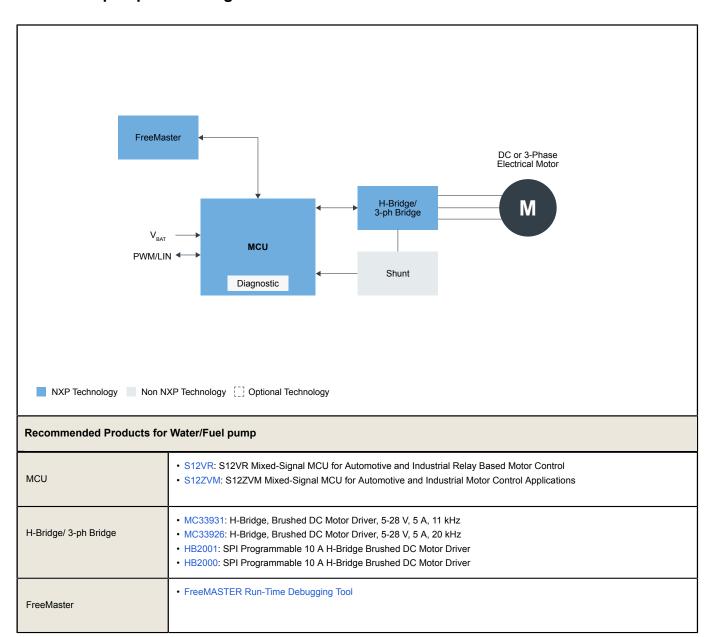
NXP solutions for electrical pumps can be used in a variety of engines, motors, plumbing, and cooling systems to help ensure economic liquid management and optimal temperatures for efficient engine operation. We assist in delivering more accurate continuous flow and pressure or when-required operation within automotive engine applications.

Electric pumps Block Diagram

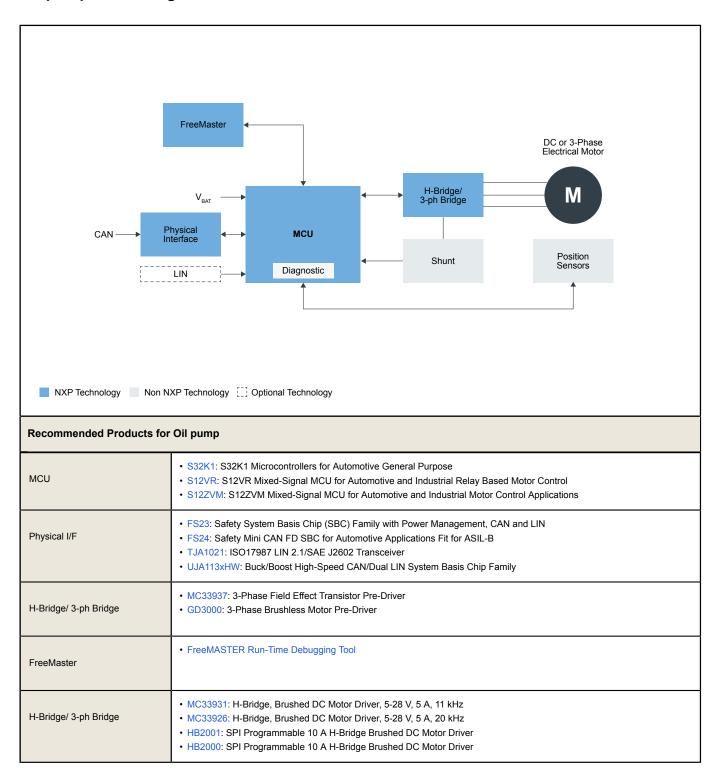


MCU	S32M2: S32M2 Integrated Solution for 12V Motor Control S32K3: S32K3 Microcontrollers for Automotive General Purpose S32K1: S32K1 Microcontrollers for Automotive General Purpose
Physical I/F	FS23: Safety System Basis Chip (SBC) Family with Power Management, CAN and LIN TJA1029: LIN 2.2A/SAE J2602 Transceiver with TXD Dominant Timeout UJA113xHW: Buck/Boost High-Speed CAN/Dual LIN System Basis Chip Family FS24: Safety Mini CAN FD SBC for Automotive Applications Fit for ASIL-B
Pre Driver Module	MC33937: 3-Phase Field Effect Transistor Pre-Driver MC33887: H-Bridge, Brushed DC Motor Driver, 5-28 V, 5 A, 10 kHz
H-Bridge/ 3-ph Bridge	MC33931: H-Bridge, Brushed DC Motor Driver, 5-28 V, 5 A, 11 kHz MC33926: H-Bridge, Brushed DC Motor Driver, 5-28 V, 5 A, 20 kHz HB2001: SPI Programmable 10 A H-Bridge Brushed DC Motor Driver HB2000: SPI Programmable 10 A H-Bridge Brushed DC Motor Driver

Water/Fuel pump Block Diagram



Oil pump Block Diagram



View our complete solution for Electric Pumps.

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

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