



Quad Valve Controller System on Chip

MC34SB0410

Archived

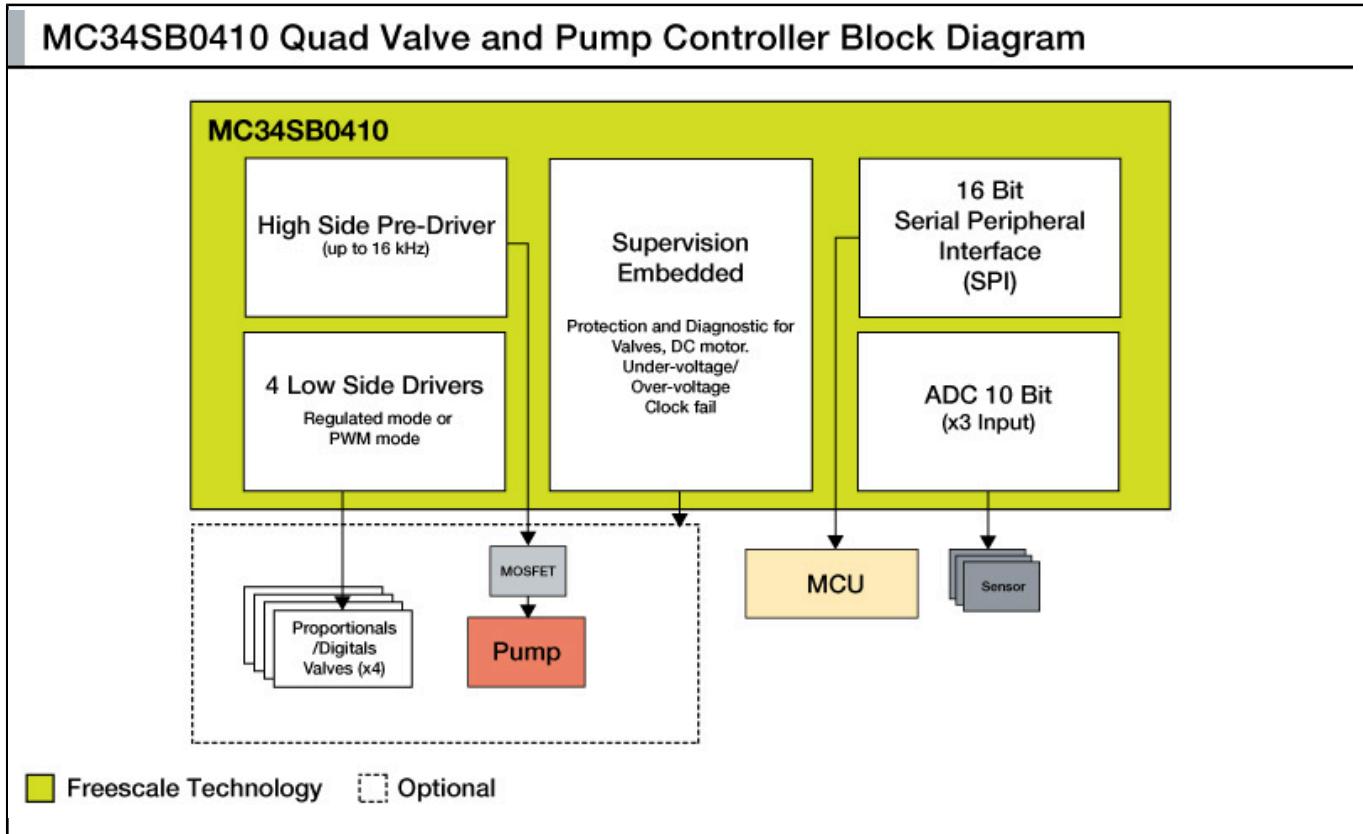
This page contains information on a product that is no longer manufactured (discontinued). Specifications and information herein are available for historical reference only.

Last Updated: Feb 24, 2025

The NXP® MC34SB0410 quad valve and pump controller system on chip consists of four low side drivers regulated and a high side to control a DC motor.

- Suitable for loads with high inrush current and allows driving to high frequency (up to 5 KHz)
- With SPI communication, you can perform control and diagnostic functions directly on the chip
- Designed for harsh environments and includes self-recovery features due to the embedded supervision that allows extensive safety monitoring
- This system on chip is the ideal solution to drive hydraulic or pneumatic valves without "smart electronics"
- [Processor Expert® component Valve Driver](#) and [Embedded Software Valve Driver](#) enables rapid embedded application development.

MC34SB0410 Quad Valve and Pump Controller Block Diagram



[View additional information for Quad Valve Controller System on Chip.](#)

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. © 2026 NXP B.V.