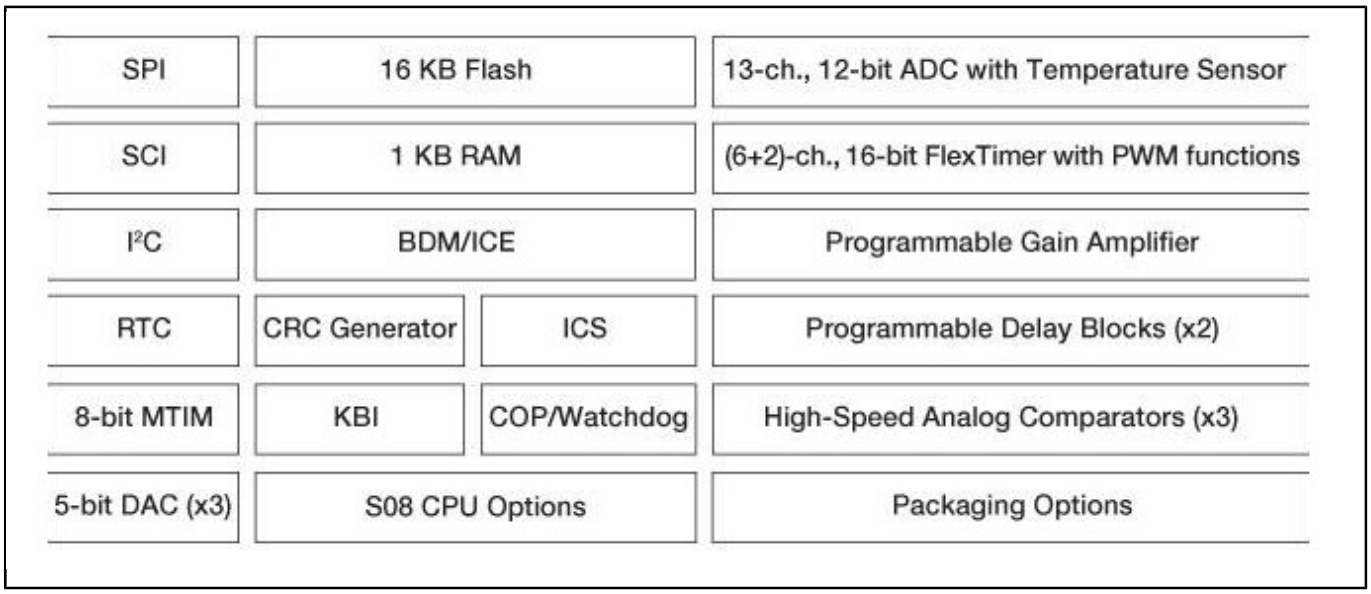
8-bit General Purpose MP MCUs

S08MP

Last Updated: Mar 5, 2025

The S08MP16 is a cost-effective 8-bit MCU that delivers safe, accurate and inexpensive motor control for a wide range of industrial and automotive applications. An ideal entry-level solution for brushless DC (BLDC) motor applications, it features an 8-channel pulse width modulator (PWM)/ flextimer module providing hardware dead-time insertion, analog comparators, programmable gain amplifier and a 12-bit analog-to-digital converter (ADC) with PWM hardware triggering. Also offered is an independently clocked COP and cyclic redundancy check (CRC) engine providing clock failure protection and memory content validation for safety-critical applications implementing IEC60730.

Freescale S08MP Microcontroller Block Diagram Block Diagram



View additional information for 8-bit General Purpose MP MCUs.

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