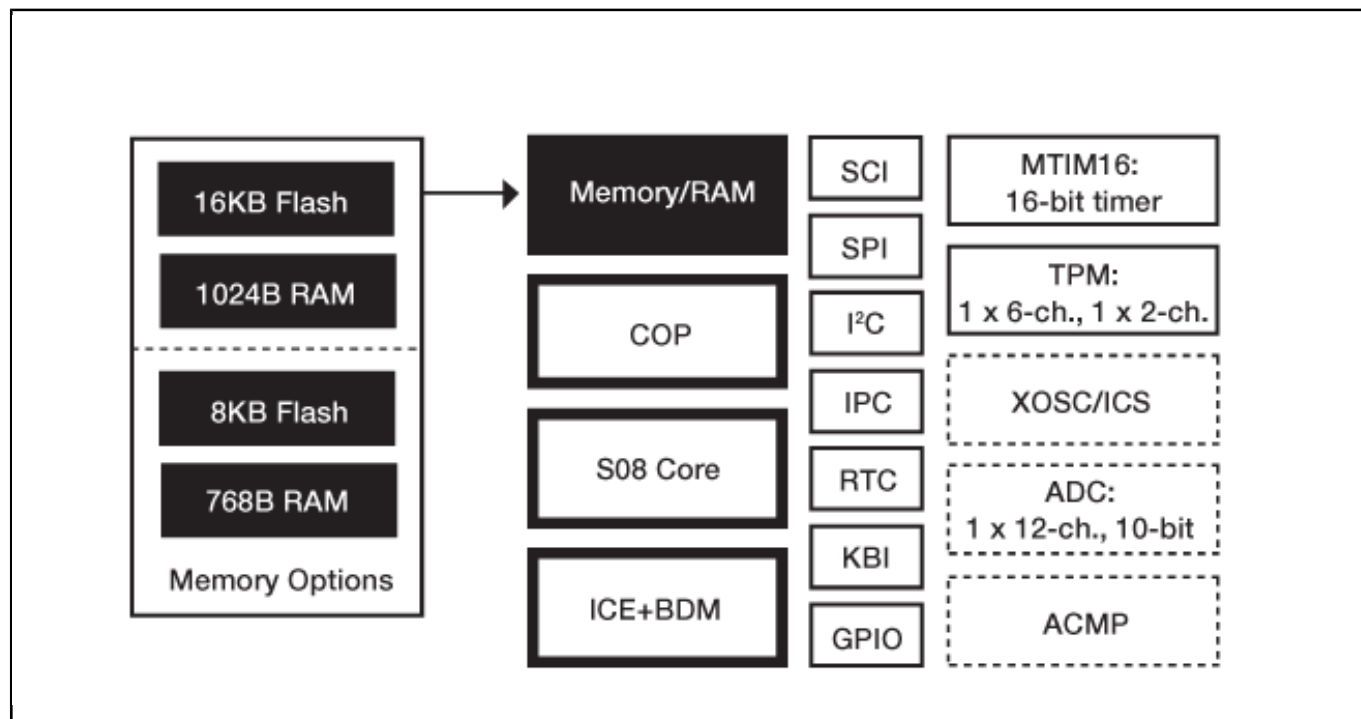# 8-Bit General Purpose Enhanced Performance SV MCUs

S08SV

Last Updated: Mar 5, 2025

The 8-bit MC9S08SV16/8 (SV16/8) family of microcontrollers (MCUs) with enhanced performance, system reliability and design flexibility to meet the tough design requirements of industrial applications. The S08SV family increases design flexibility with 30 GPIO pins and simplifies software design through an interrupt priority controller with nested interrupt capability.

Freescale S08SV Microcontroller Block Diagram Block Diagram

Memory Options		
16KB Flash		
1024B RAM		
8KB Flash		
768B RAM		

Memory/RAM

COP

S08 Core

ICE+BDM

SCI
SPI
I²C
IPC
RTC
KBI
GPIO

MTIM16: 16-bit timer

TPM: 1 x 6-ch., 1 x 2-ch.

XOSC/ICS

ADC: 1 x 12-ch., 10-bit

ACMP

View additional information for 8-Bit General Purpose Enhanced Performance SV MCUs.

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