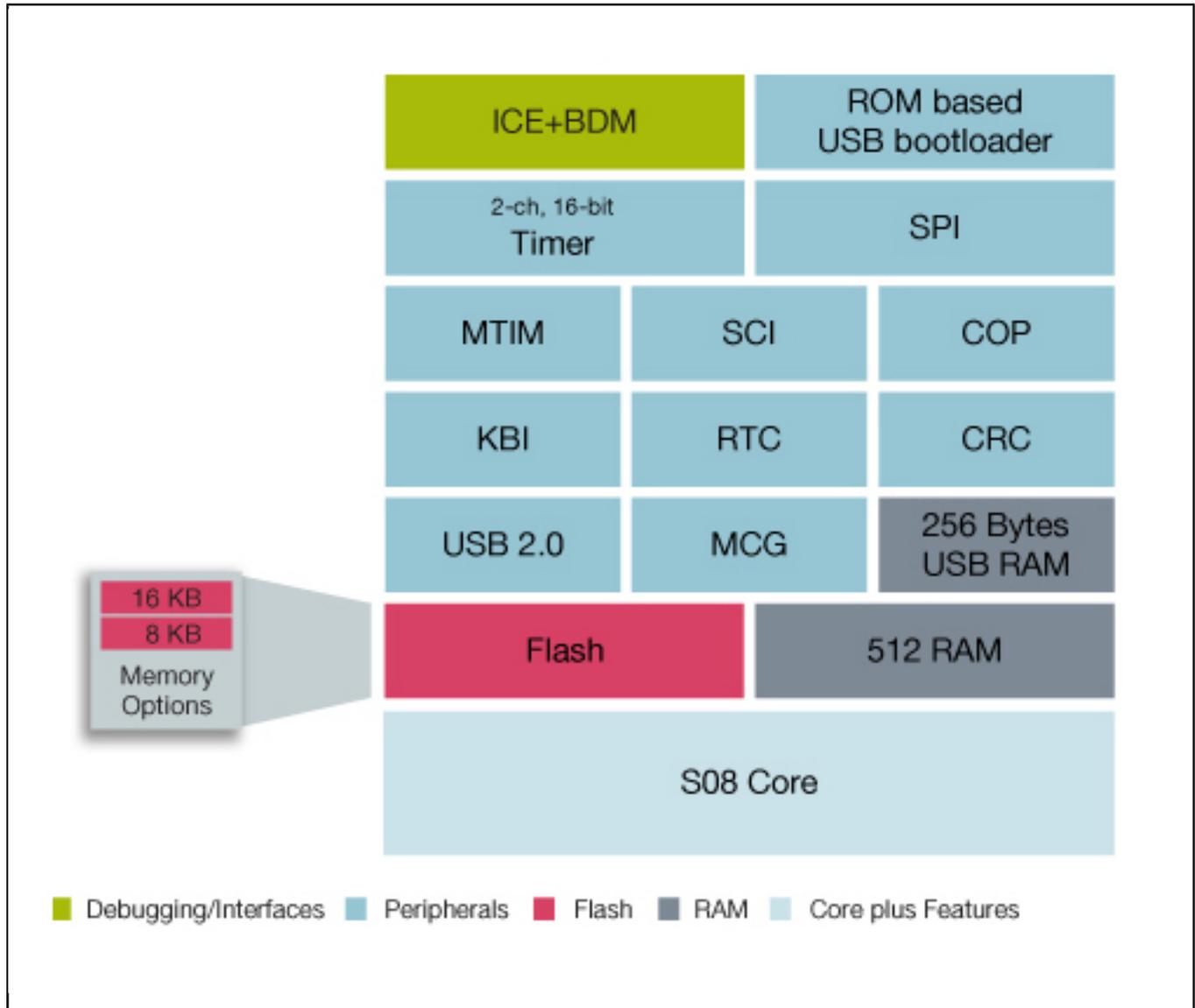# 8-bit USB JS MCUs

S08JS

Last Updated: Dec 24, 2025

The MC9S08JS16 (JS16) family features a full-speed 2.0 USB device controller and integrates a USB transceiver to help you reduce cost by eliminating off-chip components. The JS16 is ideal for affordable PC peripherals.

NXP® offers easy-to-use hardware and software solutions for JS16 devices to help you navigate the development process quickly and easily.

Freescale S08JS Microcontroller Block Diagram Block Diagram

ICE+BDM	ROM based USB bootloader
2-ch, 16-bit Timer	SPI

MTIM	SCI	COP
KBI	RTC	CRC
USB 2.0	MCG	256 Bytes USB RAM

Flash	512 RAM

S08 Core

Memory Options: 16 KB, 8 KB

Legend: ■ Debugging/Interfaces ■ Peripherals ■ Flash ■ RAM ■ Core plus Features

View additional information for 8-bit USB JS MCUs.

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