S12XS Automotive and Industrial Microcontrollers (MCUs)

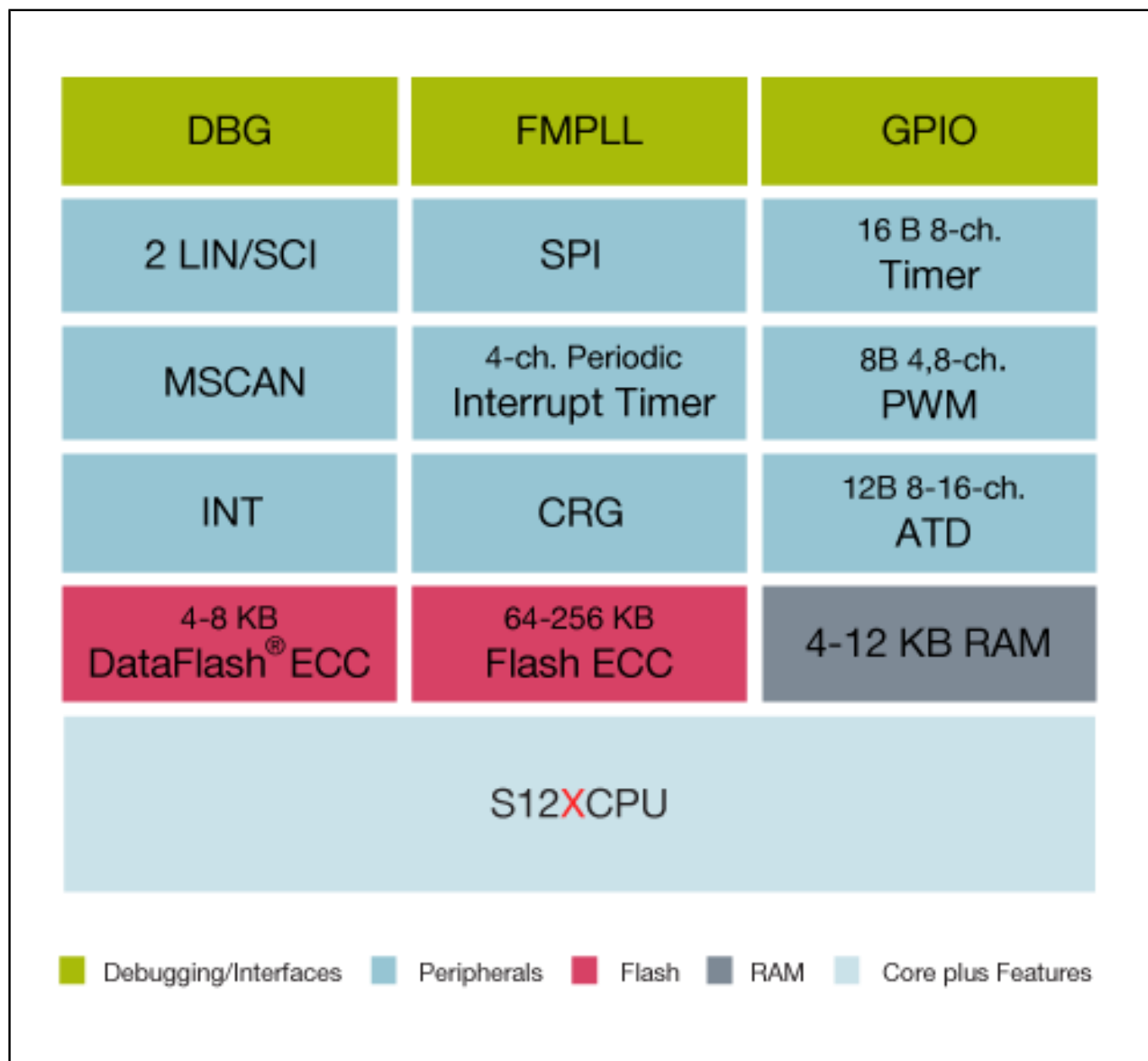## S12XS

Last Updated: Mar 5, 2025

The S12XS 16-bit MCU family is optimized for a broad range of cost-sensitive automotive body electronics applications.

Addressing customer needs for design flexibility and platform compatibility, the S12X products enable scalability, hardware and software reusability and compatibility across a broad array of automotive electronics platforms.

The S12XS automotive MCU family allows you to quickly react to market opportunities while reducing the cost of migration if application requirements change during your development cycle.

Compact packaging makes these devices suitable for space-constrained applications, such as small actuators, sensor modules and column-integrated modules.

S12XS Microcontroller Block Diagram Block Diagram

DBG	FMPLL	GPIO
2 LIN/SCI	SPI	16 B 8-ch. Timer
MSCAN	4-ch. Periodic Interrupt Timer	8B 4,8-ch. PWM
INT	CRG	12B 8-16-ch. ATD
4-8 KB DataFlash® ECC	64-256 KB Flash ECC	4-12 KB RAM
S12XCPU		

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

View additional information for S12XS Automotive and Industrial Microcontrollers (MCUs).

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