S12XF Automotive and Industrial Microcontrollers (MCUs)

S12XF

Not Recommended for New Designs

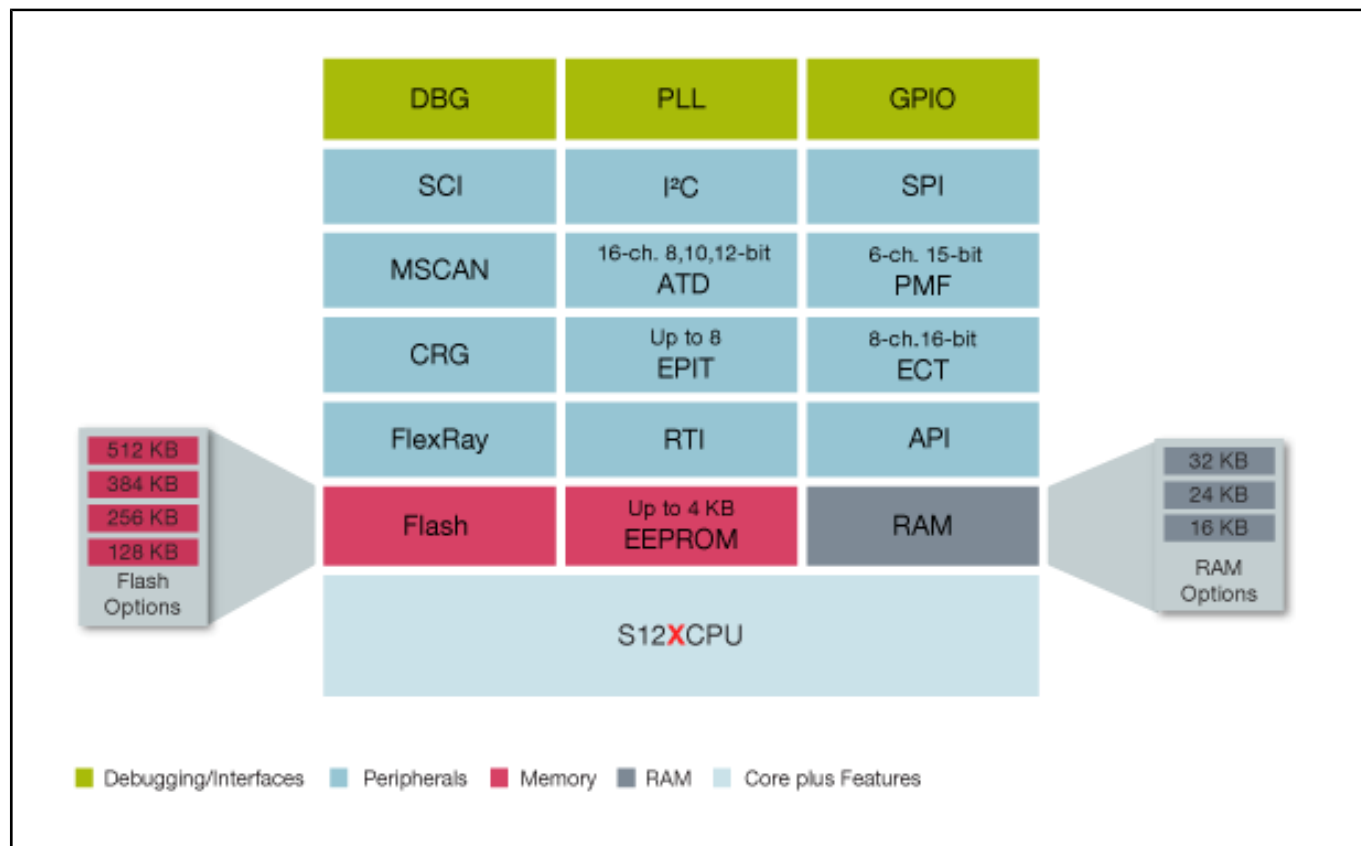このページでは、新規設計を推奨しない製品に関する情報を掲載しています。

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Based on Our S12X architecture, the MC9S12XF family gives you a high-performance, cost-effective distributed control solution for satellite nodes on FlexRay™ networks used in body, chassis and safety applications.

Replacing 32-bit controllers for satellite nodes provides a reduction in overall system cost for FlexRay networks.

The S12XF family features four highly integrated MCUs offering a range of memory configurations and NXP®.s performance-boosting XGATE coprocessor.

Package options range from 112-pin low-profile quad flat-pack (LQFP) to the 10 mm x 10 mm 64-pin LQFP—the smallest FlexRay controller available.

Freescale S12XF Microcontroller Block Diagram Block Diagram

DBG	PLL	GPIO
SCI	I²C	SPI
MSCAN	16-ch. 8,10,12-bit ATD	6-ch. 15-bit PMF
CRG	Up to 8 EPIT	8-ch.16-bit ECT
FlexRay	RTI	API
Flash	Up to 4 KB EEPROM	RAM
S12XCPU		

Flash Options: 512 KB, 384 KB, 256 KB, 128 KB

RAM Options: 32 KB, 24 KB, 16 KB

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

View additional information for S12XF Automotive and Industrial Microcontrollers (MCUs).

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