



Ultra-Reliable S12XE High-Performance Automotive and Industrial Microcontrollers

S12XE

Last Updated: Aug 11, 2022

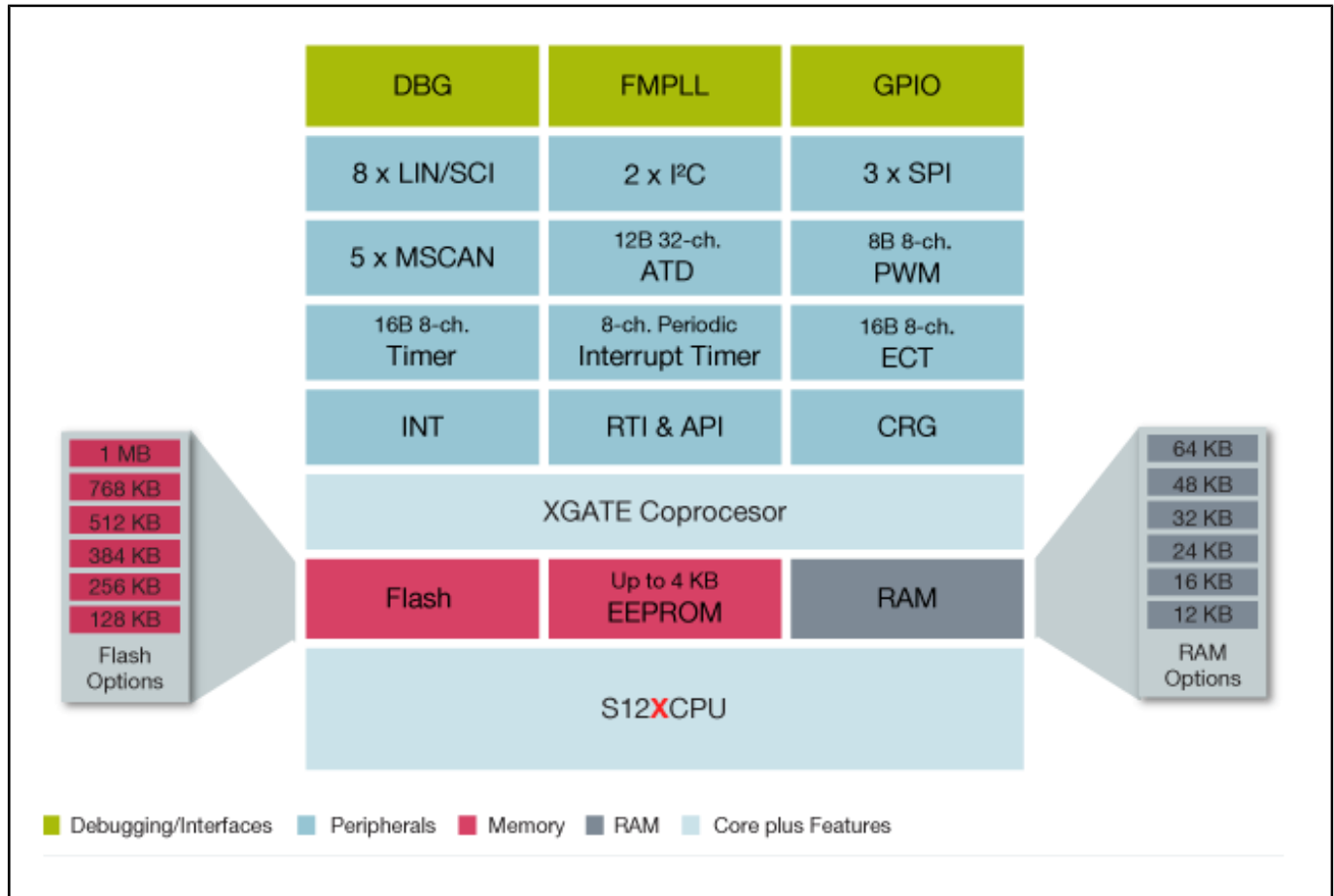
The S12XE family of MCUs takes the S12XD family a step further with features that deliver enhanced system integrity and greater functionality, including:

- Memory protection unit (MPU)
- Error correction code (ECC)
- Enhanced EEPROM functionality
- Enhanced XGATE
- Frequency-modulated locked loop
- Faster analog-to-digital converter (ADC)

Additionally, the S12XE family:

- Extends the S12X product range up to 1 MB of flash memory with increased I/O capability in the 208-pin version of the flagship MC9S12XE100
- Delivers 32-bit performance with all the advantages and efficiencies of a 16-bit MCU
- Is optimized for automotive multiplexing, generic auto body and industrial applications

S12XE Microcontroller Block Diagram Block Diagram



View additional information for [Ultra-Reliable S12XE High-Performance Automotive and Industrial Microcontrollers](#).

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

www.nxp.com

NXP and the NXP logo are trademarks of NXP B.V. All other product or service names are the property of their respective owners. The related technology may be protected by any or all of patents, copyrights, designs and trade secrets. All rights reserved. © 2022 NXP B.V.