Ultra-Reliable S12XE High-Performance Automotive and Industrial Microcontrollers

S12XE

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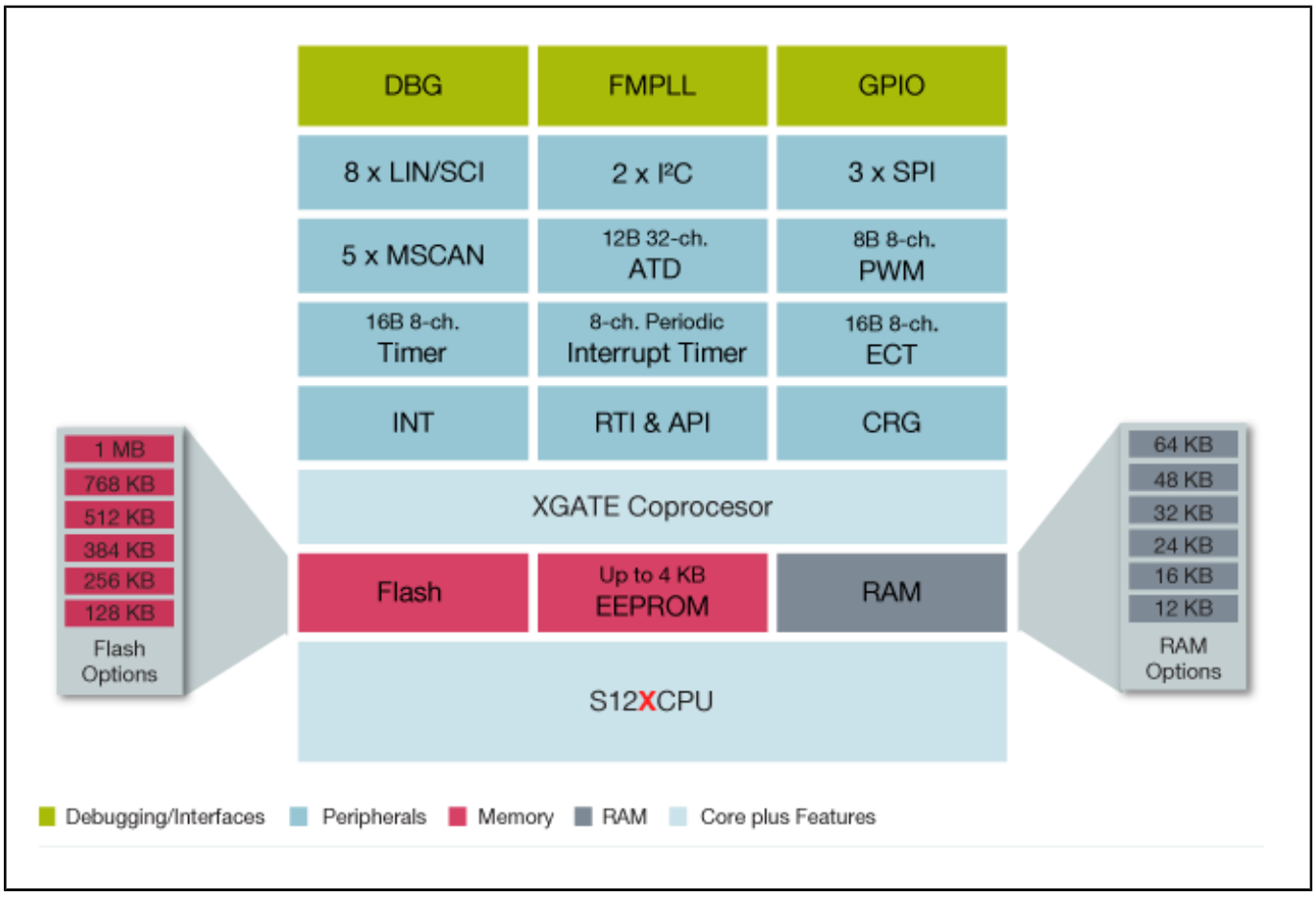
The S12XE family of MCUs takes the S12XD family a step further with features that deliver enhanced system integrity and greater functionality, including:

- 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



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