

S12C Automotive and Industrial Microcontrollers (MCUs)

S12C

Last Updated: Mar 5, 2025

The S12C is part of Our 48/52/80 pin flash-based MCU family, giving you the power and flexibility of the 16-bit core for a wide range general-purpose industrial and automotive network applications.

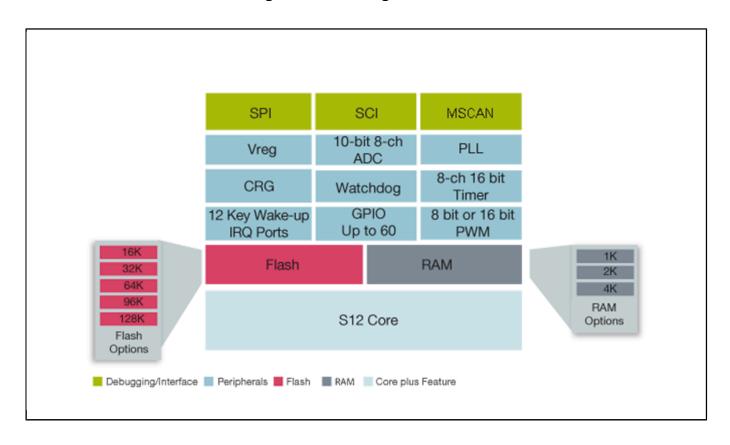
An on-chip bandgap-based voltage regulator (Vreg) generates the internal digital supply voltage (VDD) for a 2.97 V to 5.5 V external supply range.

The inclusion of a phase-lock look (PLL) circuit allows power consumption and performance to be adjusted.

A total of 50 I/O port pins and two input pins are available in the 80-pin package version.

Up to 12 I/O port bits are available with wake-up capability from stop or wait mode.

S12C Microcontroller Block Diagram Block Diagram



View additional information for S12C Automotive and Industrial Microcontrollers (MCUs).

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. © 2025 NXP B.V.