LPC552x/S2x: Mainstream Arm® Cortex®-M33-based Microcontroller Family

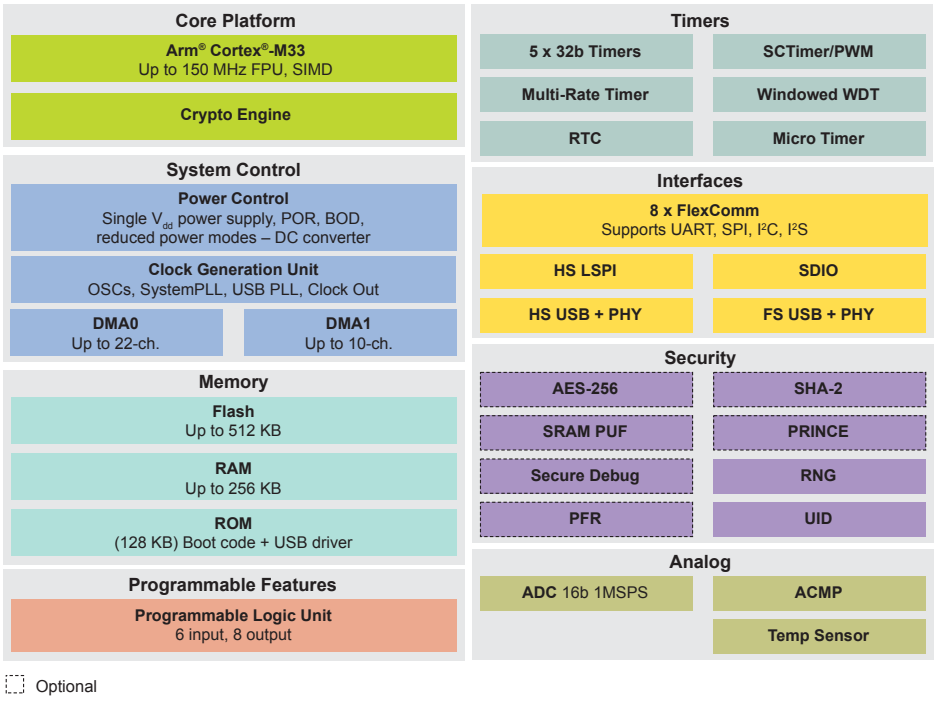
LPC552x-S2x

Last Updated: Jul 30, 2025

The LPC552x/S2x MCU family is part of the EdgeVerse™ edge computing platform and further expands the world's first general purpose Cortex-M33-based MCU series, offering significant advantages for developers, including pin-, software- and peripheral-compatibility for ease of use and accelerating time to market, while leveraging the cost-effective 40-nm NVM process technology.

The LPC552x/S2x is a mainstream family within the LPC5500 MCU series inclusive of LPC55S28, LPC55S26, LPC5528, LPC5526 MCUs, providing a perfect balance between security, performance efficiency and system integration for general embedded and industrial IoT markets. The LPC552x/S2x MCU family combines the high-performance efficiency of the Cortex-M33 core with multiple high-speed interfaces, an integrated power management IC, and rich analog integration.

LPC552x/S2x MCU Block Diagram



View additional information for LPC552x/S2x: Mainstream Arm® Cortex®-M33-based Microcontroller Family.

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