LPC553x/S3x: Advanced Analog Arm®Cortex®-M33-Based MCU Family

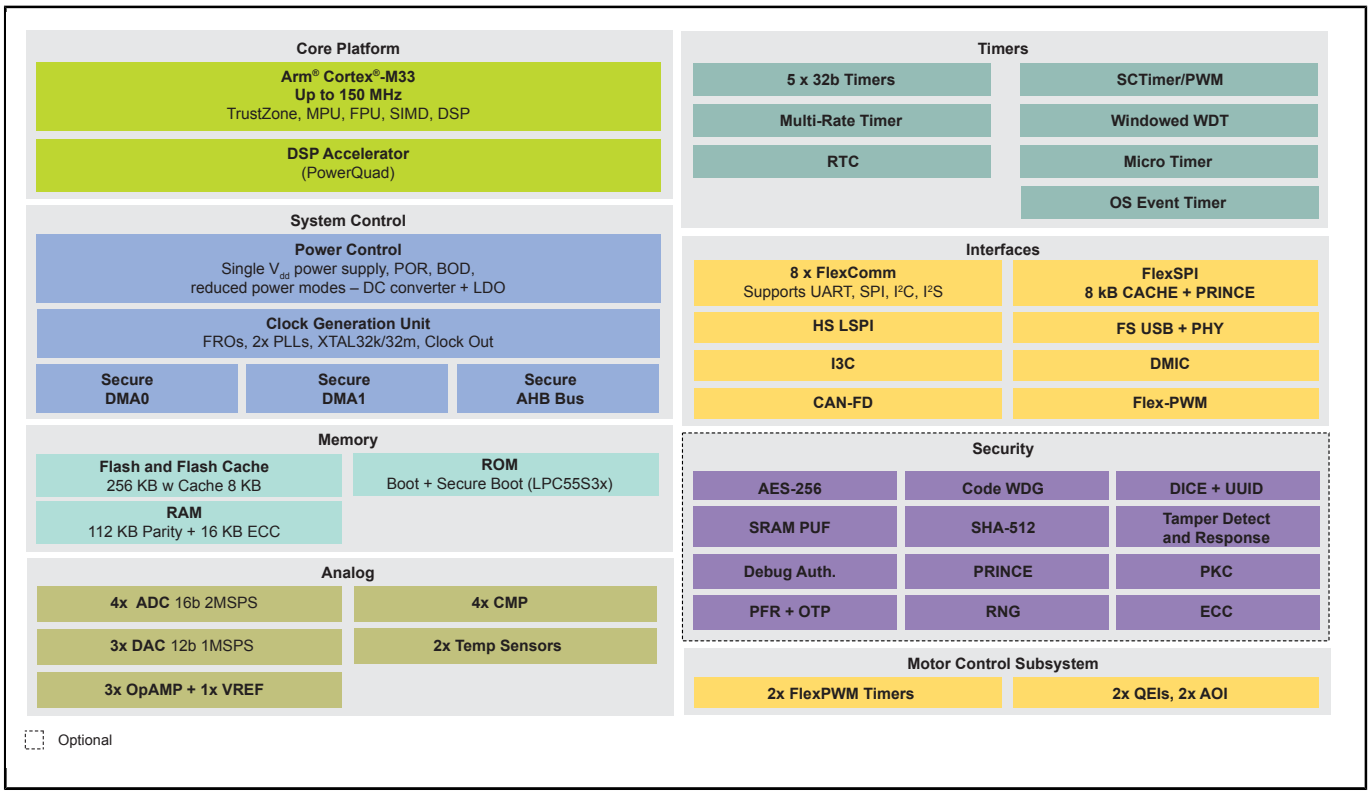
LPC553x

Last Updated: Dec 24, 2025

The LPC553x/S3x MCU family further expands the general purpose Cortex-M33-based MCU series, offering significant performance enhancement, all on-chip RAM with Parity or ECC, renewed security features and precision analog additions, leveraging the cost-effective 40-nm NVM process technology.

The LPC553x/S3x family includes a proprietary DSP accelerator offering 10x clock cycle reduction, bringing significant signal processing efficiency gains.

LPC553x/55S3x MCU Block Diagram



View additional information for LPC553x/S3x: Advanced Analog Arm®Cortex®-M33-Based MCU Family.

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