LPC800: 32-Bit Arm® Cortex®-M0+-Based Low-Cost MCU

LPC80X

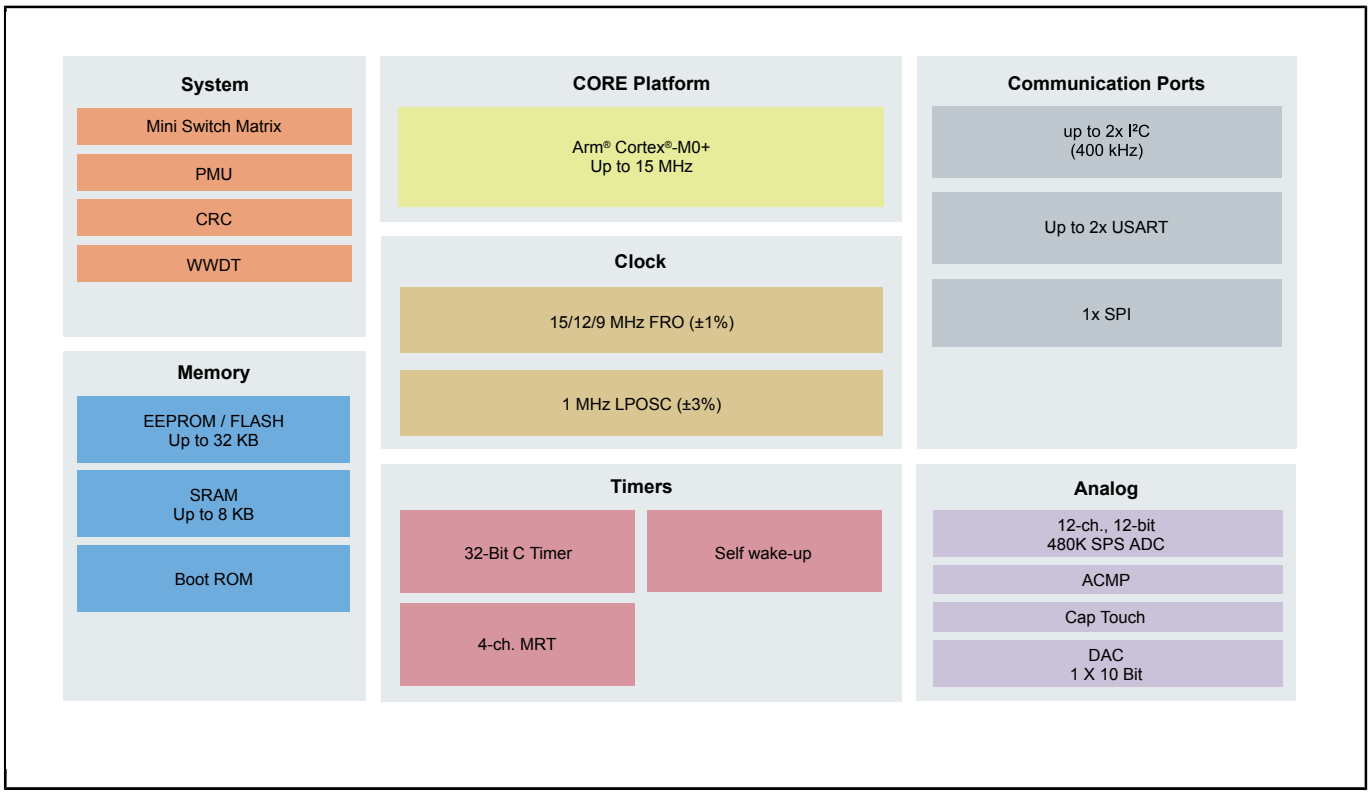
Last Updated: Sep 20, 2023

LPC80x is a cost-effective Arm Cortex-M0+ based 32-bit MCU family operating at CPU frequencies of up to 15 MHz. The LPC80x MCU family supports up to 32 KB of flash memory and up to 4 KB of SRAM.

This family features a power-optimized core, small footprint in popular packages, and level shifting options thanks to its separate power rails. The peripheral complement of the LPC80x includes a CRC engine, I²C-bus interfaces, up to two USARTs, one SPI interface, capacitive touch interface (cap touch), one multi-rate timer, self-wake-up timer, one general purpose 32-bit counter/timer, one 12-bit ADC, one 10-bit DAC, one analog comparator, function-configurable I/O ports through a switch matrix, an input pattern match engine, programmable logic unit (PLU), and up to 30 general-purpose I/O pins.

This device is fully supported by NXP's MCUXpresso Software and Tools, a comprehensive and cohesive set of free software development tools for Kinetis, LPC and i.MX RT microcontrollers. MCUXpresso SDK also includes project files for Keil MDK and IAR EWARM.

LPC80x MCU Block Diagram



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