

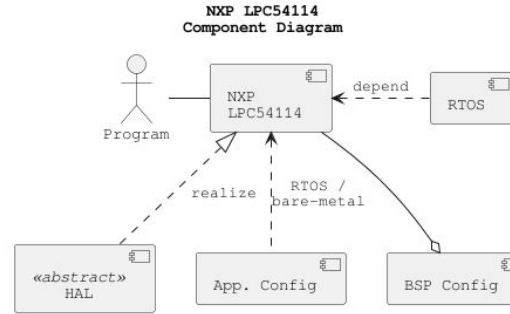
The LPC54114 is an ultra-low-power Cortex-M4 and Cortex M0+ dual-core design, flexible USART/SPI/I2C, multi-rate SCTimer/PWM, and powerful DMA engine. Built for IoT, wearables, and portable devices, it offers efficient concurrency, strong energy management, and a clean, maintainable driver ecosystem. Support package available: LQFP64

The BSP development is made with a NXP LPCXpresso54114 development board. The BSP features a CMake and GCC build system and built based on **Hardware Abstraction Layer (HAL)**. It requires an application configuration file, which allows the user to specify the CPU clock frequency, enable or disable RTOS, and further define project-level I/O and settings.

This microcontroller offers a range of key features, including support for RTCC (Real Time Clock and Calendar) and numerous communication channels for I2C, UART, and SPI (8 channels each).

Some peripherals provide a resource lock interface for thread-safe operation, including I2C, PWM, SPI, and UART.

Version: 0.8.3



Available Peripherals

- ☐ ADC x12
- ☐ GPIO x48
- ☐ I2C x8
- ☐ PWM x8
- ☐ RTCC x1
- ☐ SPI x8
- ☐ TIMER x5
- ☐ UART x8
- ☐ WATCHDOG



☆

BSP_LPC54114

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🐛 Bugs	🔒 Vulnerabilities	🔥 Hotspots Reviewed	👤 Code Smells	Coverage	Duplications	Lines
0 A	0 A	- A	0 A	0.0% C	0.0% C	3.4k S C