

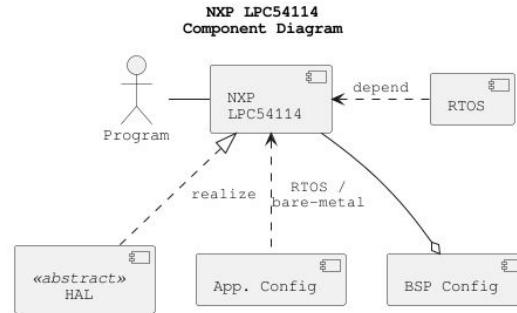
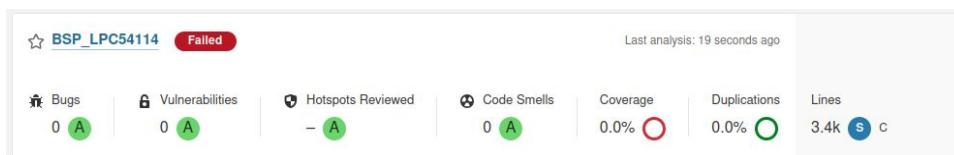
The LPC54114 is an ultra-low-power Cortex-M4 and Cortex M0+ dual-core design, flexible USART/SPI/I2C, multi-rate SCTimer/PWM, and powerful DMA engine. Built for IoT, wearables, and portable devices, it offers efficient concurrency, strong energy management, and a clean, maintainable driver ecosystem.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

