



NHS52S04: Ultra-Low-Power Bluetooth® Low Energy Solution With Arm® Cortex®-M33 TrustZone® for Medical IoT

NHS52S04

Last Updated: Dec 17, 2024

The NHS52S04 provides connectivity solutions for medical IoT applications. The NHS52S04 device constitute a highly integrated, single chip, ultra-low-power Bluetooth® Low Energy 5.3 wireless transceiver with embedded microcontroller and flash.

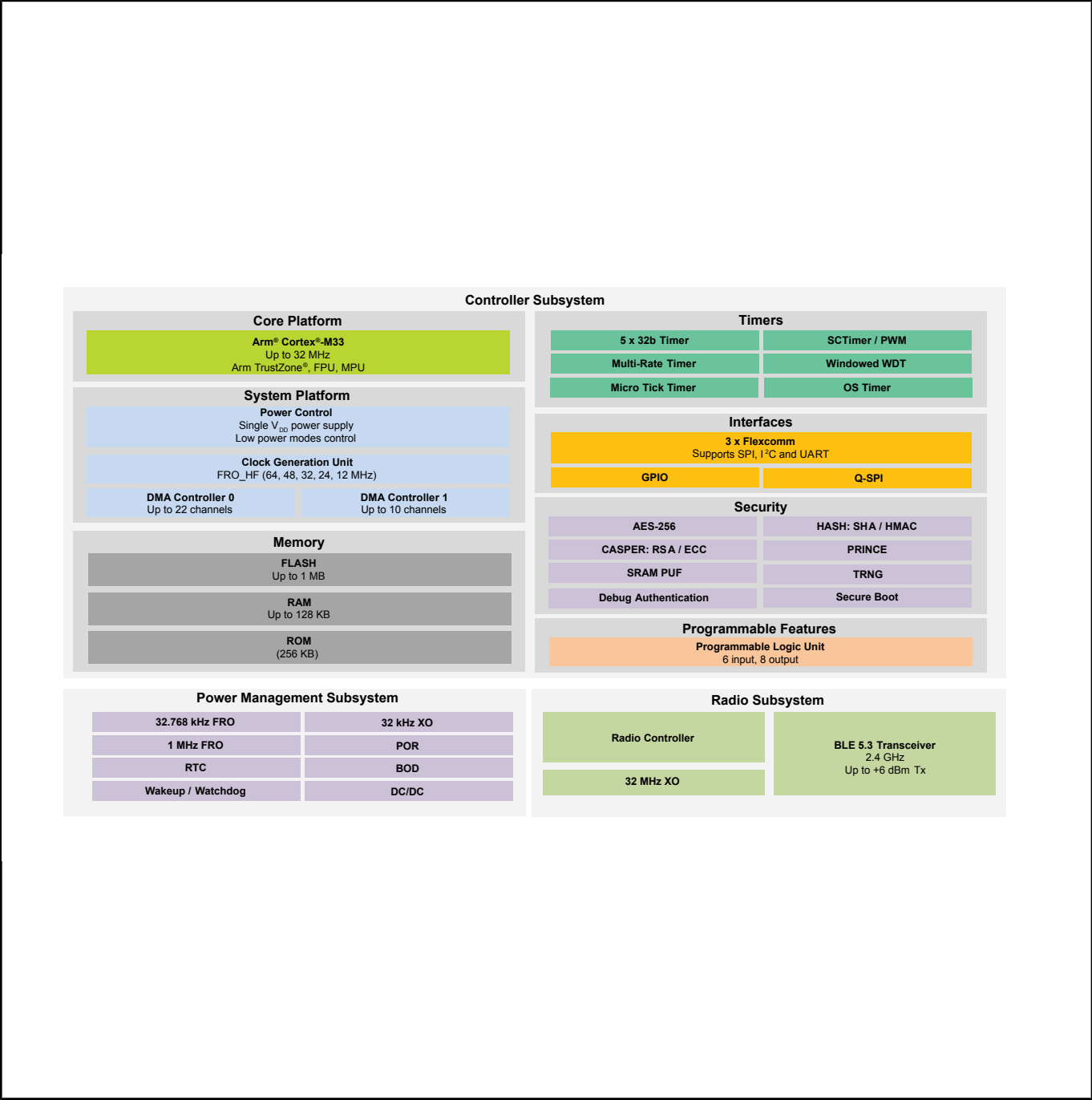
Because of the integrated ultra-low-power radio and flash, the NHS52S04 provides extended battery lifetime. The NHS52S04 is a cost-effective solution within a small solution area required for body-worn sensors and actuator applications like smart skin patches, smart inhalers and vital signs monitoring.

The NHS52S04 runs directly from a Lithium battery or from an external PMIC-based product architecture.

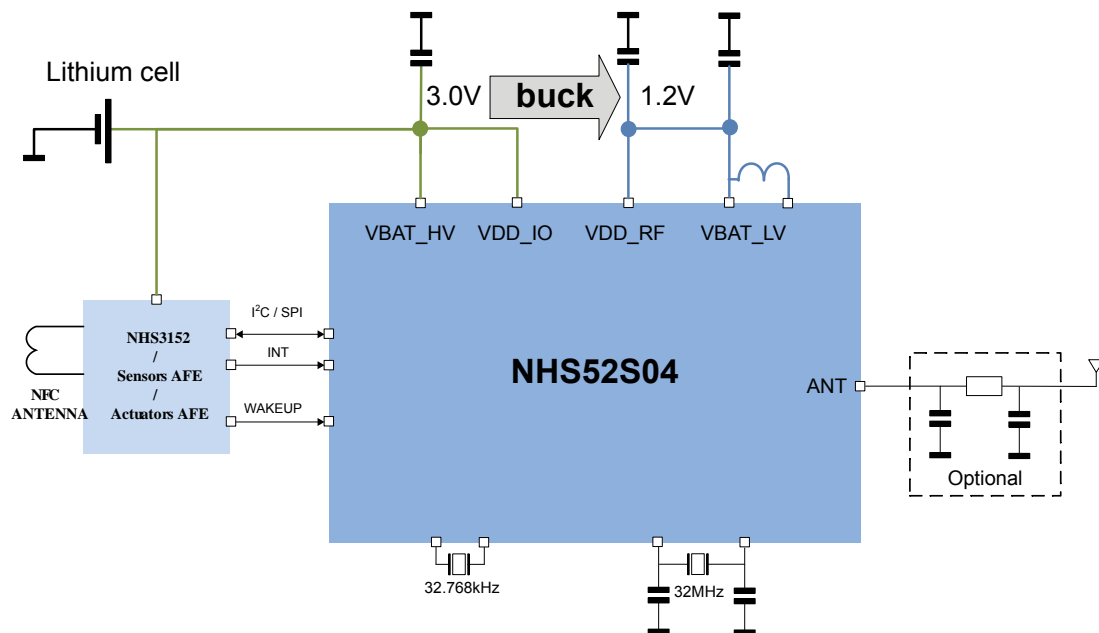
Built with advanced security in mind, the NHS52S04 is part of the NXP EdgeLock® Assurance program.

NHS52S04 and enablement (documentation, software and boards) are available for select customers. For additional information and sample availability, [contact support](#) or your local sales representative.

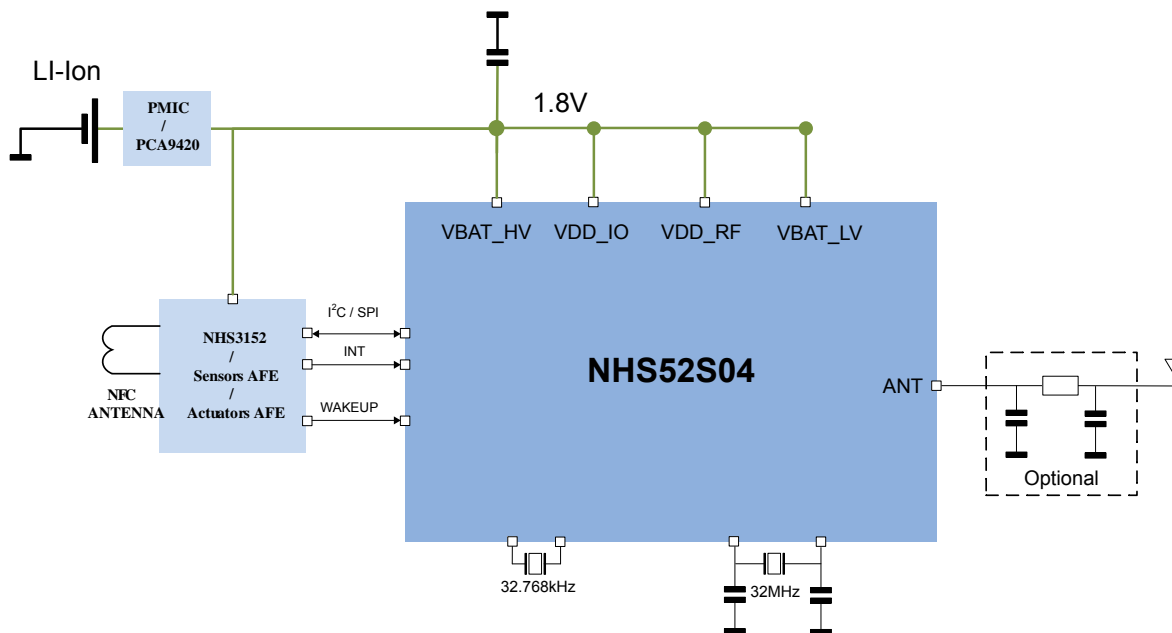
NHS52S04 Block Diagram



NHS52S04 with 3 V Lithium Cell Block Diagram



NHS52S04 with PMIC Block Diagram



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

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