



QN908x: Ultra-Low-Power Bluetooth Low Energy System on Chip Solution

QN9080

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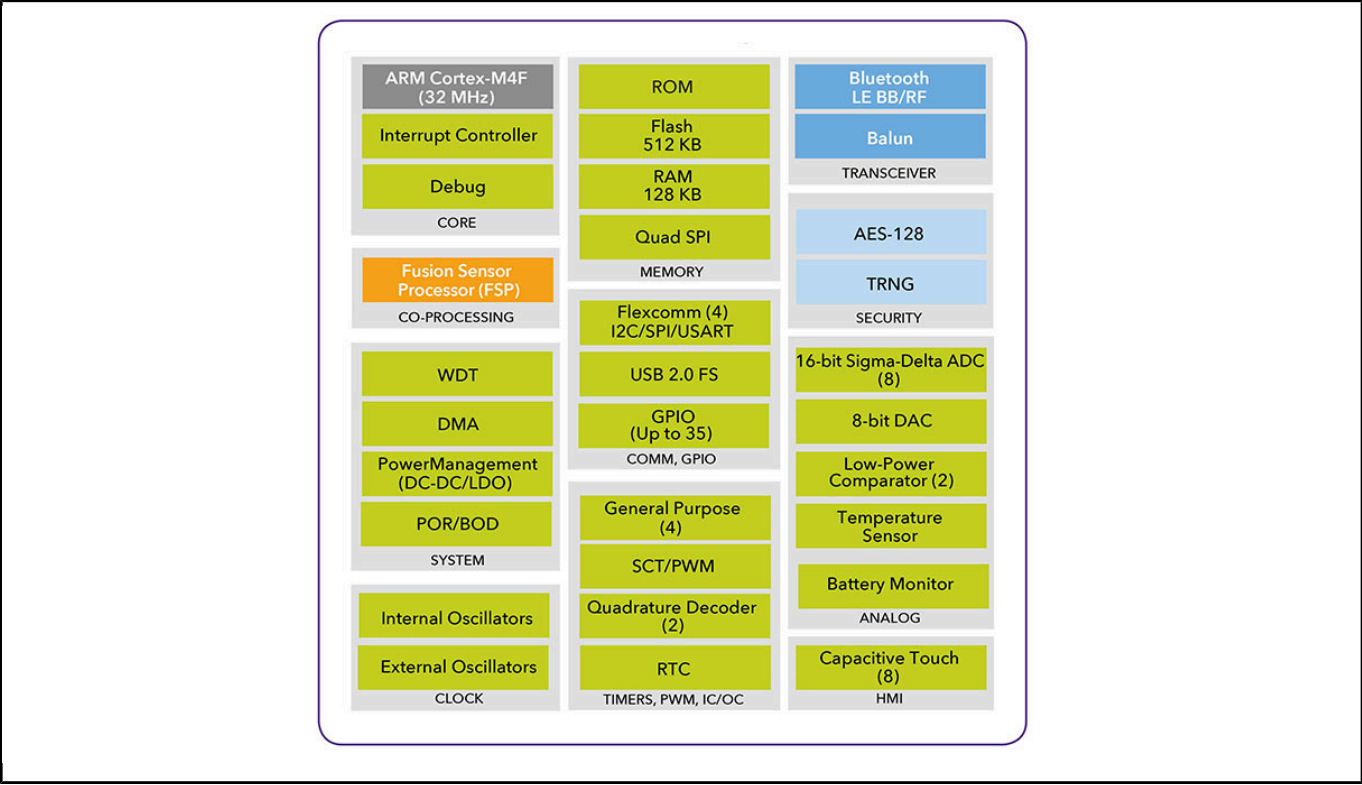
Note: QN9090/30 is preferred for any new Bluetooth LE design.

QN908x is an ultra-low-power, high-performance and highly integrated Bluetooth Low Energy solution for Bluetooth® Smart applications such as sports and fitness, human interface devices, and app-enabled smart accessories. It is specially designed for wearable electronics with a small capacity battery.

QN908x integrates a Bluetooth Low-Energy radio, controller, protocol stack and profile software on a single chip, providing a flexible and easy to use Bluetooth Low Energy SoC solution. It also includes a high-performance MCU (32-bit Arm® Cortex®-M4F), on-chip memory, and peripherals for users to develop a truly single-chip wireless solution.

Additional system features include fully integrated DC-DC and LDO, low power sleep timer, battery monitor, 16-bit high-resolution general purpose ADC, and GPIOs, to further reduce overall system size and cost. QN908x operates with a power supply range of 1.8 V to 3.6 V and has very low power consumption in all modes. It enables long lifetime in battery-operated systems while maintaining excellent RF performance.

QN908x Block Diagram Block Diagram



View additional information for [QN908x: Ultra-Low-Power Bluetooth Low Energy System on Chip Solution](#).

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