

BLE Module Features 192kB Flash Memory, 24kB RAM



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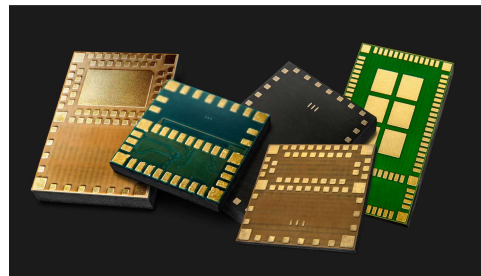
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Categories: Internet of things (IoT), Modules, RF Power

Tag: @InsightSiP @Rutronik #blemodule #flashmemory #psd

As one of the smallest fully integrated devices on the market, the new ISP1507-AL system-in-package modules offer complete solutions for implementing Bluetooth Low Energy (BLE) and ANT+ RF connections

PLANO, TX – Rutronik has announced that Insight SiP's new ISP1507-AL system-in-package (SiP) is now available at Rutronik24. Based on the nRF52810 multiprotocol system-on-chip (SoC) from Nordic Semiconductor, the ISP1507-AL is one of the smallest fully-integrated BLE modules on the market, and is particularly suitable for mesh relay nodes and price-sensitive IoT applications.



The ISP1507-AL BLE module from Insight SiP, a French technology company that specializes in radio frequency (RF) circuit miniaturization, system-in-package (SiP) technology, and antenna-in-package (AiP) solutions, features an ARM Cortex M4 floating point processor, which enables the new SiP to do fast calculations and manage all 13 I/Os, as well as analog and digital peripherals. Due to its small dimensions (8 x 8 x 1 mm), high performance, and wide range of functions, the ISP1507-AL BLE module is ideal for use in solutions that require fast processing and low power consumption. Target applications include IoT, industrial sensors, wearables, beacons, and home automation.

In addition, the ISP1507-AL BLE module features 192kB flash memory, 24kB RAM, and two integrated crystals (32MHz & 32kHz), which enable high performance operations. In many cases, the ISP1507-AL SiP can eliminate the need for an additional microprocessor or additional memory that might have been required for

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previous generation products, saving cost of the total solution. Complementing the new SiP's features are an antenna and various interfaces, including SPI, I2C, UART, and ADC.

The ISP1507-AL BLE module supports Bluetooth 5.0, ANT+, and various other mesh protocols. The optional NFC antenna allows touch-to-pair functionality for increased user convenience. Since the ISP1507-AL SiP is based on the Nordic nRF52810 SoC, Nordic's software stacks can also be used for the new module. In addition, the new ISP1507-AL SiP is pin-compatible to the related modules, including the ISP1507-AX and the new ISP1807-LR, which will be available in early 2019.

The new ISP1507-AL BLE module from Insight SiP is now available for purchase at [Rutronik24](#).

For more information about Insight SiP, please visit: <https://www.insightsip.com/>.

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