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## Bluetooth And RF Antenna System-In-Package Modules From Insight SiP Now Available At Rutronik24

*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*

Rutronik, a leading global broad-line stocking distributor of a comprehensive range of electronic components, semiconductors, and products and technology solutions for IoT and embedded systems, 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 1mm), 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.

“The new ISP1507-AL module from Insight SiP truly represents the state of the art in Bluetooth module technology,” said Mary Ellen Bauchman, director, Product Marketing North America at Rutronik. “As the smallest fully integrated BLE module available on the market, the ISP1507-AL device provides a complete solution for Bluetooth Low Energy and ANT connections. With its miniature size, high performance, and wide range of integrated functions, the new module offers an ideal solution for complex applications that require fast processing and low-power consumption.”

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 previous generation products, saving cost of the total solution. Completing 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.

### **About Insight SiP**

Insight SiP serves the market with turn-key design services and creative packaging solutions to customers who need highly integrated systems to meet the space requirements for wireless and portable devices. Experts in custom multi-die RF circuit miniaturization, system-in-package (SiP), and antenna-in-package (AiP) designs, Insight SiP also provides ready-to-use RF modules for Bluetooth Low Energy (BLE) applications, such as telecom and mobile computing, portable consumer devices, healthcare, automotive – connected cars, industrial, and Internet of Things (IoT). With headquarters in the south of France, Insight SiP has sales offices in the U.S., Japan, and a worldwide distribution network. For more information about Insight SiP, please visit: <https://www.insightsip.com/>.

### **About Rutronik**

Rutronik is a global, privately held, broad-line, stocking distributor currently ranked as the third largest European electronic components distributor, and the eleventh largest worldwide with annual sales of \$1 billion. Their product range includes semiconductors, passive and electromechanical components, as well as embedded boards, storage technologies, displays and wireless products. Primary target markets include automotive, medical, industrial, home appliance, energy, and lighting. In addition to a comprehensive line of components, Rutronik delivers consulting services for technical, commercial, and logistical issues, with unparalleled service and technical support to customers worldwide. Their e-commerce site, Rutronik24, provides customers worldwide 24/7 component procurement and personalized customer support.

An ECIA authorized distributor, Rutronik Inc. serves the North American market with headquarters in Plano, TX and a warehouse facility in Austin, TX, as well as sales offices in Concord, MA, Santa Clara, CA, and Mexico. Rutronik's sales offices serve customers with sales support and field application engineering services. For more information, visit [www.rutronik.com](http://www.rutronik.com).

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