



Insight SiP

It's **all** in the **package**

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INSIGHT SIP COMBO MODULES

Insight SiP's Combo Smart Modules offer high performance in a miniature package for customers wanting ready to use BLE / ANT+ / NFC / UWB / LoRa mixed solutions



iSP45 series LoRa & BLE modules



NEW Smart LoRa + BLE Module, the perfect stand-alone solution for large spectrum of IoT applications

- LoRaWAN Stack & BLE 5 Ready Stack
- LoRa section based on Semtech SX126x series transceiver + BLE section based on Nordic Semi nRF52
- NFC-A Tag for OOB pairing
- Embedded 32-bit ARM Cortex M4 CPU
- Fully integrated LoRa & BLE matching and Antennas
- Integrated LoRa and BLE 32 MHz & 32.768 kHz Clocks
- Analog and Digital peripherals + SPI Interface + 22 GPIOs
- Very Small Size 9.0 x 17.0 x 1.5 mm
- Applications: Smart Cities/Smart Retail, Industrial Internet, Big Data/Data Science, Energy Engagement/ Smart grids



UWB series UWB & BLE modules



Miniature Pulsed UWB + BLE module for precise positioning

- IEEE802.15.4-2011 UWB compliant + BLE 5 Ready Stack
- Smallest module – only 9.0 x 16.0 x 1.9 mm
- Fully integrated UWB positioning node based on DecaWave DW1000
- Wireless interface including BLE & 32-bit ARM Cortex M4 based on nRF52 Nordic Semi
- NFC-A Tag for OOB pairing
- Dual Frequency Antenna-in-Package with matching circuit, DC/DC and Xtals
- Spatial resolution better than 10 cm
- Analog and Digital peripherals + SPI Interface
- Applications: Precision Real Time Location Systems (for Healthcare, Sport & Wellness, Consumer, Industrial...), Security bubble, Access Control, Indoor positioning...



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