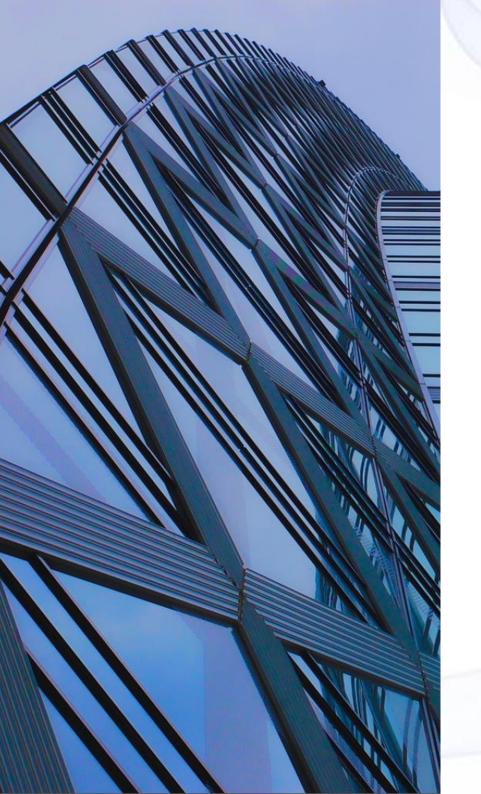


SMART MODULES
OCTOBER 2020





COMPANY OVERVIEW

COMPANY PROFILE

Experts in RF System-in-Package (SiP) and Antenna-in-Package (AiP) in response to ultra miniature wireless solution demand

ESTABLISHED IN 2005

Founded by actual CEO and CTO

Core team of PhD and MSc from National Semiconductor

Electromagnetic simulation, antenna design and μ W & RF circuit theory skills

Unique set of design techniques & industrialization expertise

Fabless company



LOCATIONS

Europe – HQ & Technical team in Sophia-Antipolis

North America Subsidiary in Denver

Asia – Sales office in Tokyo

Global network of distributors

Manufacturing
Taiwan and Philippines





COMPANY EXPERTISE

SIP <u>APPRO</u>ACH

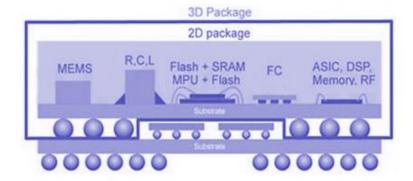
ANTENNA in PACKAGE

SiP approach consists of integrating several different components into a single miniaturized module

- From different semiconductor and passive technologies
- Unique ability to embed functions within the package
- RF know-how
- Irrespective of the technology
 - Organic substrates (BT, FR4...)
 - Multi-layer ceramic substrates (LTCC, HTCC, Thick film...)
 - Thin film Integrated Passive Devices (IPD) on silicon or glass
- Extremely rapid and low cost development cycles

Addition of ultra-miniature antennas to the RF SiP create a so called "Antenna in Package" product (AiP)

- Fundamental part of long term Insight SiP's research program
- Combining electromagnetic simulations and circuit level optimization
- Based on a user extendable library of physical objects
- R&D work has already been implemented in products for Bluetooth Low Energy and Wireless High Definition Interface products





MARKET SEGMENT













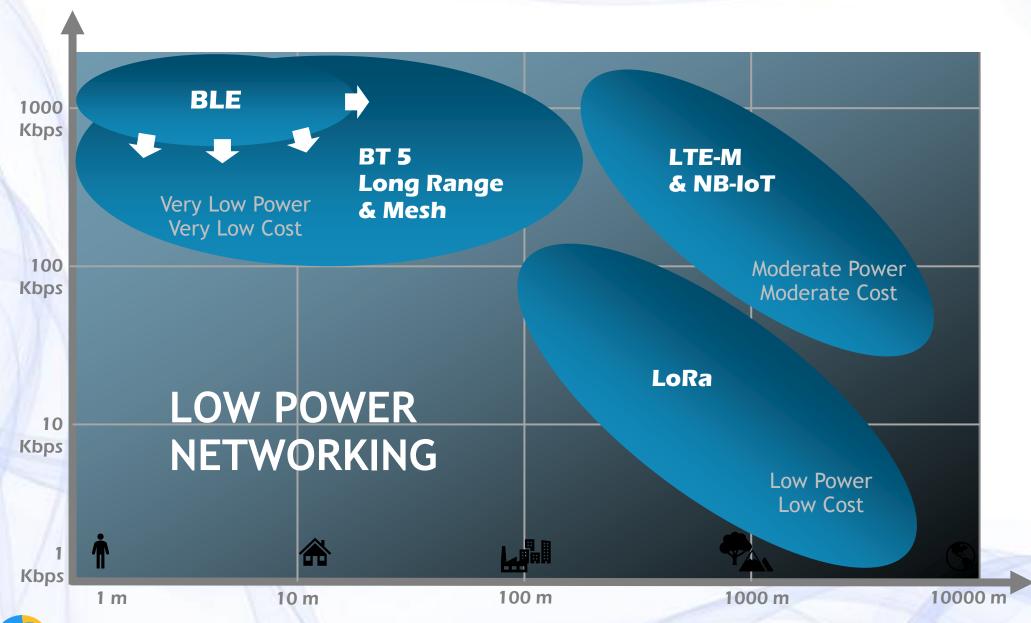






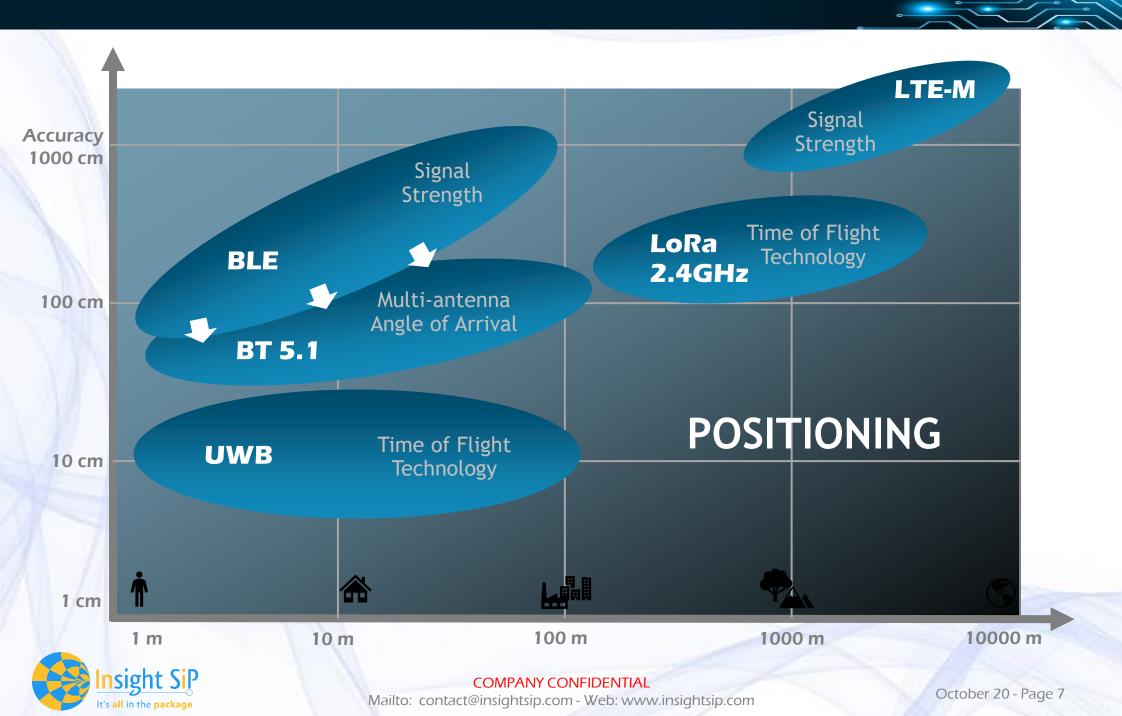


TECHNOLOGY FOCUS





TECHNOLOGY FOCUS



MODULE RANGE & ROADMAP

Insight SiP is the leading provider of Smart, Low Power and Built-in Antenna Connectivity Modules for advanced IoT solutions

- Our portfolio includes a diverse set of solutions to meet different IoT use cases
 - Our modules provide class leading miniaturization
 - Our modules are designed with superb radio performance



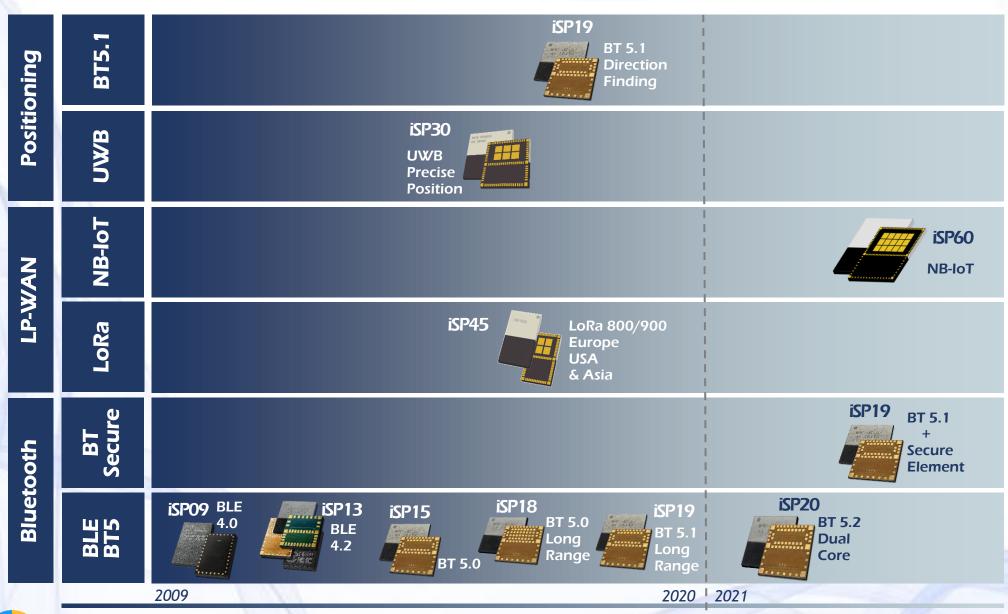


Positioning Modules

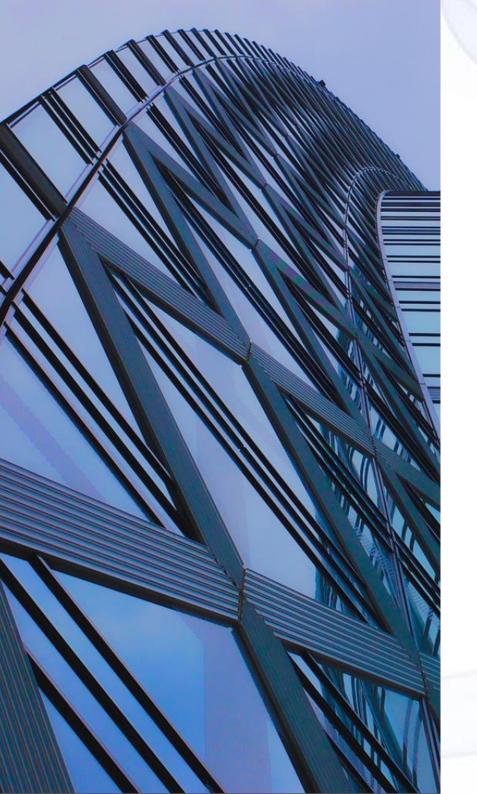




MODULE RANGE & ROADMAP









BEST IN CLASS MODULE SOLUTION

Module or Discrete Solution



Industrialized Discrete Design



Module Based Design

Design Efforts + 3 to 6 months

Certification
3 months + 30-50k\$ cost

Time to market 3 to 9 months saving No NRE

PCB Requirement Larger Dimension



Size Optimization

Purchasing
About 20 components



Unique component

Yield Rework needed



100% tested

Technical risk management



Modules are proven components

In most of the case, even volume can't justify discrete design effort



WHY CHOOSING INSIGHT SIP

- No need for RF knowledge, design effort for RF design is very often underestimated
- Minimum electronic skills for digital connection





- Time to market reduced by 3 to 6 months
- Module is certified, avoiding lengthy and expensive certification process

- Small and integrated solution
- Single component replaces many, supply chain simpler





- Optimized antenna performance
- BLE function concentrated in one single component

Application development is focused on customer's added value



LEADING CHIPSET

Market leading chipset particularly suited to module segment

Bluetooth NB-IoT



LoRa



UWB



QOCVO.



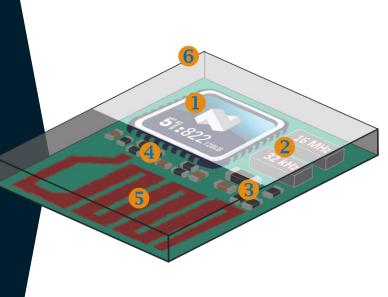
Firmware Library Support

> Proven and Sustained Hardware



SMALL & BUILT-IN TECHNOLOGY

All in one module with superb RF performance despite miniature size



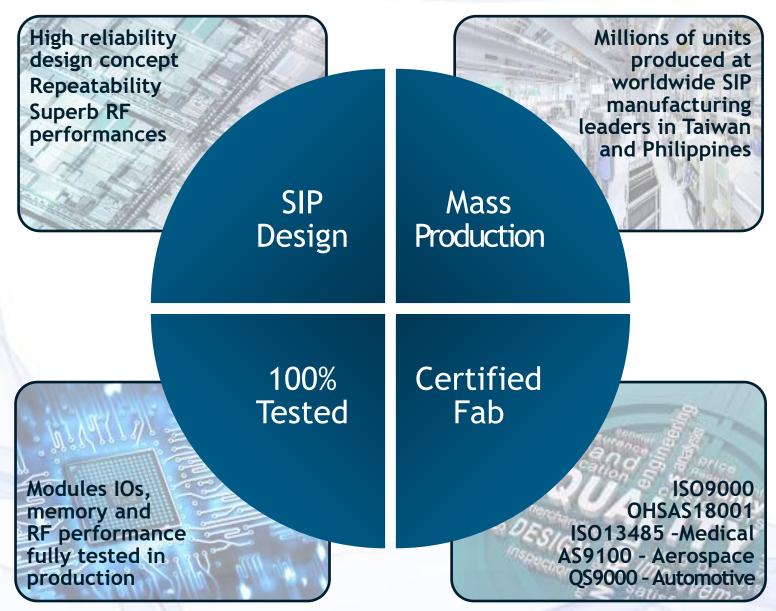
SoC Inside

WLCSP wireless SoC with multiple analog and digital functions

- 2 Both crystals included
 Radio & Synchronization
 Reduced power consumption
- B Power supply decoupling
 For both DC-DC enable or disable operating mode
- Antenna matching circuit
- Integrated Antenna
 Proprietary antenna offering best reproducibility and performance, insensitive to environment
- 6 Integrated shielding
 Avoiding external metallic covers
 Reduces height and size



QUALITY & RELIABILITY





FULLY CERTIFIED

Module certification



Qualified List



DoC based on test reports





Certification with antenna



Certification with antenna

End user actions

BT SIG End Product Listing Declaration

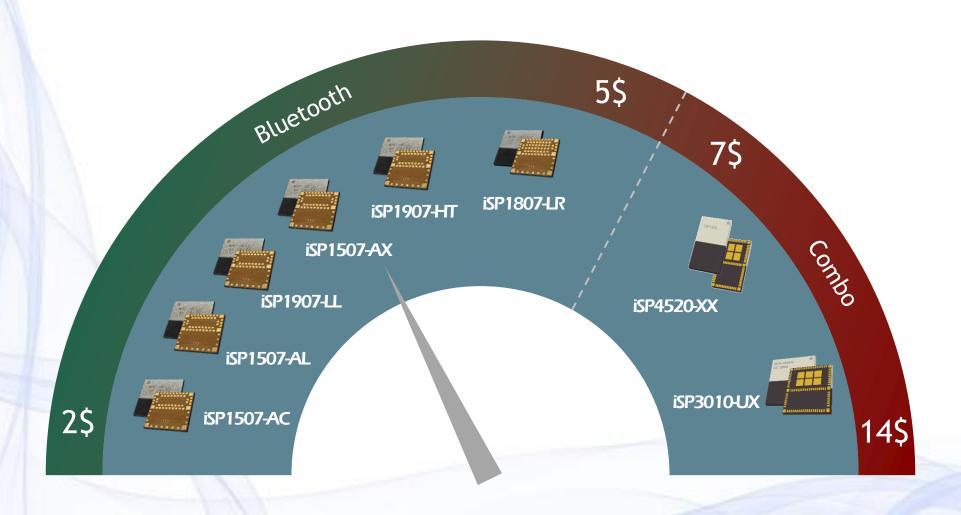
EMC and Safety tests
CE declaration
CE marking

EMC tests
FCC & IC ID marking
Notice on product manual

No additional task



COMPETITIVE VOLUME PRICES

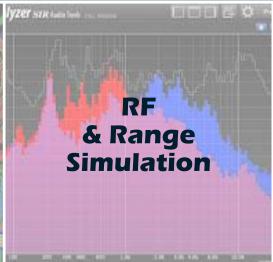




TECHNICAL SUPPORT

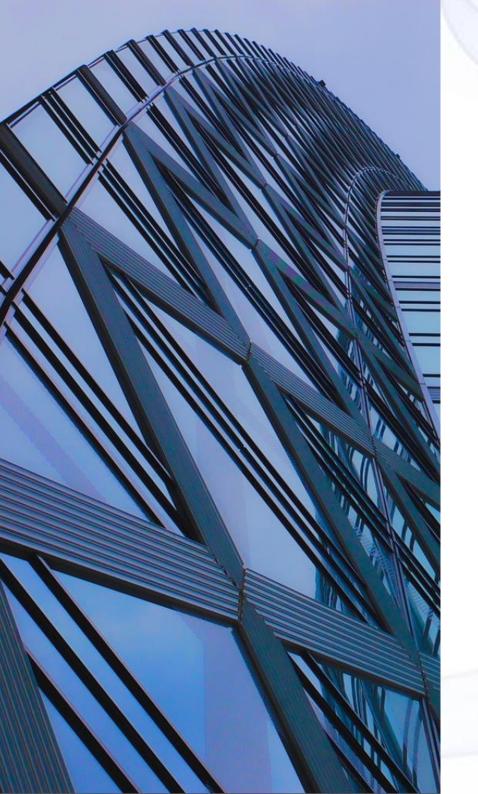
Responsive and high-quality technical support











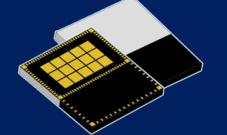


DEVELOPMENTS IN PROGRESS

COMBO NB-IOT & BLE - PRELIMINARY

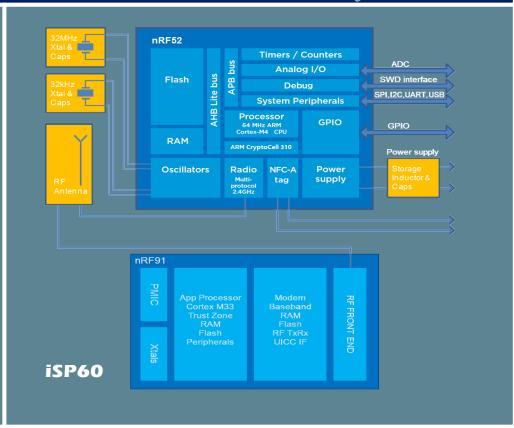


Dual NB-IoT and BLE chips Built-In antennas Timeline – mid 2021



Key Features

- ✓ NB-IoT Functions based on nRF91 series
- ✓ Ultra Low Power IoT Modem
- ✓ Internal Antenna Band 20 (800 MHz)
- √ 64MHz ARM Cortex M33 CPU
- ✓ 1MB Flash & 256 kB RAM
- ✓ 20 GPIOs
- ✓ BLE Functions based on nRF52833
- ✓ BT 5.1 RF Transceiver
- ✓ Internal Antenna 2.4 GHz
- √ 32bit ARM Cortex M4 CPU
- √ 512 kB Flash & 128 kB RAM
- √ 20 GPIOs including 5 ADC inputs & 1 reference
- ✓ Ultra Low Power Consumption
- ✓ Single 3.3 to 5.5 V supply
- \checkmark Small size 16 x 20 x 1.8 mm

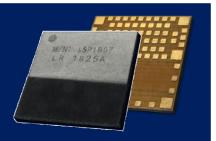




BLE SECURE - PRELIMINARY

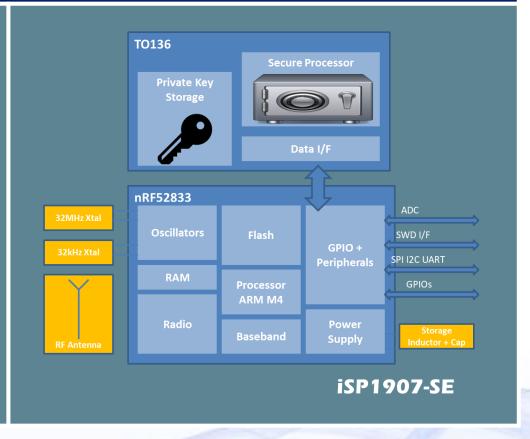


BLE & Secure Element Built-In antenna Timeline – mid 2021

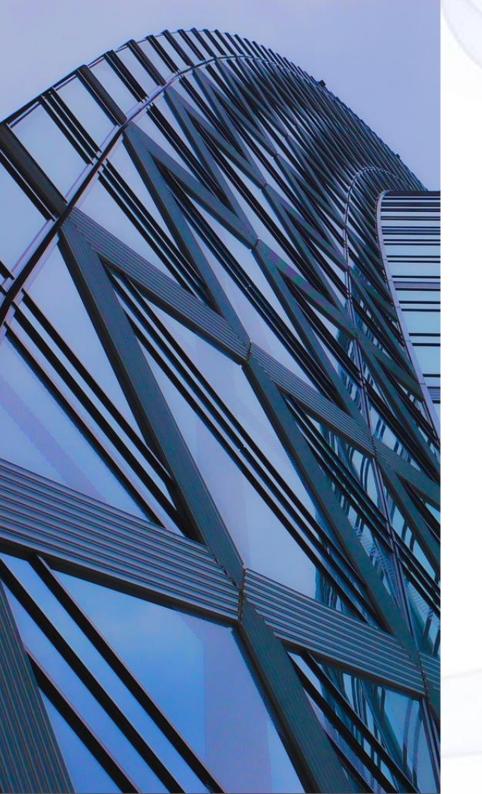


Key Features

- Ultra Low Power Consumption
- \checkmark Single 1.8 to 3.6 V supply
- ✓ Small size 8 x 8 x 1 mm
- ✓ BT 5.1 Transceiver based on nRF52833
- √ 32bit ARM CPU
- √ 512 kB Flash 128 kB RAM
- ✓ Large set of GPIOs
- ✓ Integrated Antenna
- ✓ Secure Element based on Trusted Objects TO136
- ✓ Storage of Private Keys
- Storage of Code/encode Apps









SHORT RANGE MODULES BLUETOOTH

BLE OVERVIEW

Large Choice of Platforms and Options with Integrated Antenna Standard Series Part Number Chipset Status Description iSP2053-AX NEW nRF5340 **Development Dual Core Multi protocol** BT 5.2 iSP20 iSP1907-HT NEW nRF52833 Samples Long range - Direction finding - High Temp BT 5.1 iSP19 iSP1907-LL nRF52811 **Mass Prod** Long range – Direction finding – Low cost Long range – Large memory – Multi protocol iSP18 **Mass Prod** iSP1807-LR nRF52840 Multi purpose – Best seller **Mass Prod** iSP1507-AX nRF52832 BT 5.0 iSP15 **iSP1507-AL Mass Prod** nRF52810 Low cost iSP1507-AC | NEW | nRF52805 **Samples Ultra low cost** iSP130301-BL nRF51822 **Mass Prod Extended memory BLE 4.2** iSP13 iSP130301-BM nRF51822 **Mass Prod** Multi purpose **BLE 4.1 Mass Prod** iSP1302-BM nRF51822 Low cost No application memory **BLE 4.0** iSP09 iSP091201-BN nRF8001 **Mass Prod**

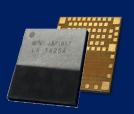


New Generation BT 5.2





Dual Core M33 & Large Memory Multi-protocol, Direction Finding Extended Temperature



Key Features

- ✓ Based on nRF5340
- ✓ BT 5.2 transceiver supporting BLE, Long Range, Mesh, Direction Finding, NFC, Thread, Zigbee
- ✓ ARM Cortex M33 application CPU with 1 MB Flash & 512 KB RAM
- ✓ ARM Cortex M33 network CPU 256 KB Flash & 64 KB RAM

- ✓ Advanced securityARM TrustZone & Cryptocell
- ✓ Radio 32 MHz & Synchro 32 kHz Xtals
- √ Complete 46 IOs set included
- ✓ USB interface
- ✓ Decoupling and DCDC circuit on board
- ✓ Extended temperature 105°C
- ✓ Ultra Small LGA 8 x 10 x 1 mm

Applications

- Professional Lighting
- ✓ Advanced wearables
- ✓ Complex IoT applications

Market Introduction

- ✓ Currently in development
- ✓ Samples & Kits in Q1-2021
- ✓ Certification & Mass prod in Q2-2021



COMPLETE BT 5 & BT 5.1 OFFER



Pin to Pin compatible

- **✓** Form Factor 8 x 8 x 1 mm
- **✓** BLE
- ✓ BT Mesh
- ✓ Built-in **Antenna**
- ✓ Cortex M4
- ✓ DC/DC
- ✓ 32 MHz Xtal
- √ 32kHz Xtal
- ✓ Balun
- ✓ SPI, I2C, **UART, ADC** interfaces



Ultra Low Cost

Solution for

Applications

Simple IoT

✓ BT 5.0

√ 10 IOs













- ✓ Based on nRF52832
- ✓BT 5.0
- √512 kB Flash & 64 kB RAM
- √30 IOs



Solutions

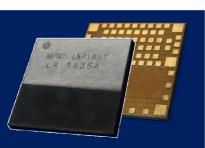
✓ BT 5.0

√ 13 IOs

COMPLETE BT 5 & BT 5.1 OFFER



Large choice of performances with built-in Antenna Unique pin compatible range



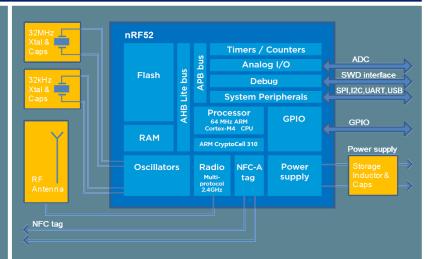
Key Features

- Ultra Small LGA 8 x 8 x 1 mm
- BT 5.0 or BT 5.1 transceiver
- From core BLE to Multiprotocol Thread, Zigbee, NFC and Mesh, Long Range, Direction finding 32-bit ARM Cortex M4 or M4F CPU
- From 192 KB to 1MB Flash
- From 24 KB to 256 KB RAM
- 10 to 46 GPIOs
- **Optional ARM CryptoCell**
- Optional USB interface Radio 32 MHz & Synchro 32 kHz Xtals
- Decoupling and DCDC circuit on board

Market Introduction

- ✓ ISP1507-AX, ISP1507-AL, ISP1807-LR and ISP1907-LL
- fully available and certified

 ✓ ISP1907-HT engineering samples available, mass production and certification scheduled end Q4-2020
- ISP1507-AC mass production available end Q4-2020



Certifications

















COMPLETE BT 5 & BT 5.1 OFFER



Evaluation Board Test Board Demo Board



Test Board

- ✓ Specific test board of required P/N compatible with any Kit
- ✓ Test Boards integrate a "Connector Debug In" port compatible with Nordic Dev kits
- ✓ All IOs "Test Point" on board



Evaluation Board

- √ 1 interface board with J-Link Cortex emulator
- √ 1 test board





Demo Board ISP1880

- ✓ BT5 nRF52840 transceiver
- ✓ Accelero / Gyro / Magneto
- ✓ Temperature/Barometer
- ✓ Humidity Sensor
- Sensor Demo available on iTunes and Google Play





RF and Protocol requirements

- Does the application need other protocols than pure BLE? ANT, Zigbee, Thread?
- Is BLE Mesh needed?
- Should the radio be Long Range?
- Any need for Direction Finding? Tag? Anchor? Both?

Module Type	iSP1507-AC	iSP1507-AL	iSP1507-AX	iSP1807-LR	iSP1907-LL	iSP1907-HT
Multi Protocol			ANT+	ANT, Thread Zigbee		ANT, Thread Zigbee
NFC Pairing			ОК	ОК		ОК
Mesh			BEST	BEST		BEST
Long Range				BEST	BEST	BEST
Direction Finding					Tags only	Tags & Anchors



Desired CPU performance

- Does the application need an embedded MCU or use an external host?
- Does it need many calculation with floating point capability?
- What is the requirement in term of memory?
- Any additional security required?

Module Type	iSP1507-AC	iSP1507-AL	iSP1507-AX	iSP1807-LR	iSP1907-LL	iSP1907-HT
External Host Micro	BEST	BEST			BEST	
Floating point computing			YES	YES		YES
Memory requirement	LIGHT 192 / 24 kB	LIGHT 192 / 24 kB	MEDIUM 512 / 64 kB	LARGE 1 MB / 256 kB	LIGHT 192 / 24 kB	MEDIUM 512 / 128 kB
Cryptocell security				YES		



Module interfaces

- How may IOs are required?
- Any Analog port ?Any USB interface ?

Module Type	iSP1507-AC	iSP1507-AL	iSP1507-AX	iSP1807-LR	iSP1907-LL	iSP1907-HT
IOs including I2C,	LIGHT	LIGHT	MEDIUM	LARGE	LIGHT	LARGE
SPI, UART, PWM	10	13	30	46	13	40
ADCs	LIGHT	LIGHT	LARGE	LARGE	LIGHT	LARGE
	2	3	8	8	3	8
USB				YES		YES



Price range

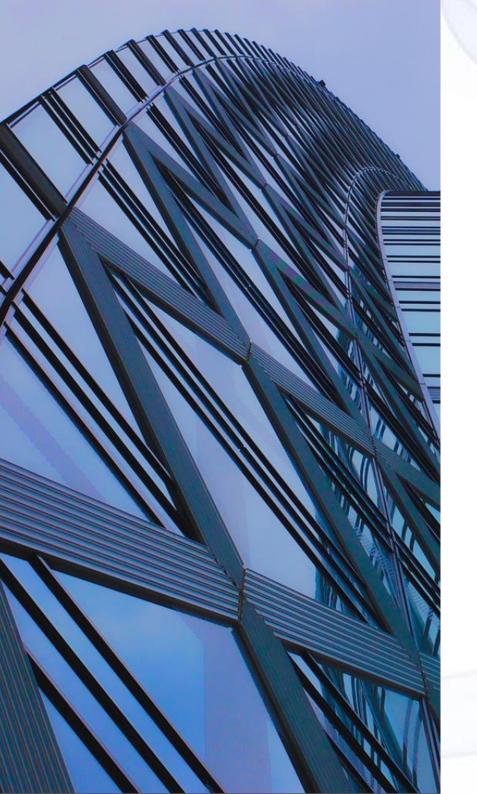
- Is the target price aligned with the chosen module options?Or what performance can I relax to achieve the desired cost?

Module Type	iSP1507-AC	iSP1507-AL	iSP1507-AX	iSP1807-LR	iSP1907-LL	iSP1907-HT
Price Sensitivity	ULTRA LOW COST	LOW COST	MEDIUM RANGE	HIGH END	LOW COST	HIGH END



	Madula Tima	:CD4E07 AC	:CD1E07 AI	:CD4E07 AV	:CD4907 LD	;CD4007 LI	:CD4007 HT
	Module Type	iSP1507-AC	iSP1507-AL	iSP1507-AX	iSP1807-LR	iSP1907-LL	iSP1907-HT
ity	Specification		BT 5.0	BT 5.0		BT 5.1 Long Range & Direction Finding	
	Features	BLE	BLE	BLE & Mesh	BLE & Mesh	BLE	BLE & Mesh
	Other protocol	-	ANT	ANT	Thread, Zigbee, ANT	Thread	Thread, Zigbee
	Tx Power	+4 dBm	+4 dBm	+4 dBm	+8 dBm	+4 dBm	+8 dBm
Connectivity	Rx sensitivity	-97 dBm	-96 dBm	-96 dBm	-103 dBm (BT5)	-104 dBm (BT5)	-103 dBm (BT5)
ne	Tx current	4.6 mA @ 0 dBm	4.6 mA @ 0 dBm	5.3 mA @ 0 dBm	4.8 mA @ 0 dBm	4.6 mA @ 0 dBm	4.9 mA @ 0 dBm
lo o	Rx current	4.6 mA	4.6 mA	5.4 mA	4.6 mA	4.6 mA	4.6 mA
	Data rate	2 Mbps	2 Mbps	2 Mbps	2 Mbps	2 Mbps	2 Mbps
	Range	80 m	80 m	80 m	400 m	300 m	400 m
	SoftDevice	S112/S113	S112/S113	S112/S113/S132	\$113/\$140	S112/S113/S140	S113/S122/S140
	Chip	nRF52805	nRF52810	nRF52832	nRF52840	nRF52811	nRF52833
\supset	Processor	32-bit ARM Cortex M4	32-bit ARM Cortex M4	32-bit ARM Cortex M4F	32-bit ARM Cortex M4F	32-bit ARM Cortex M4	32-bit ARM Cortex M4F
CPU	Security	-	-	-	ARM Cryptocell 310	-	-
	Flash / RAM	192 kB / 24 kB	192 kB / 24 kB	512 kB / 64 kB	1 MB / 256 kB	192 kB / 24 kB	512 kB / 128 kB
	GPIOs	10	13	30	46	13	30
S	ADCs	2	3	8	8	3	8
nterfaces	SPI	Standard	Standard	Standard	High speed / QSPI	Standard	High speed
e T	NFC tag	No	No	Yes	Yes	No	Yes
=	USB	No	No	No	Yes	No	Yes
	Other	UART, PWM, PDM	UART, PWM, PDM	UART, PWM, PDM	UART, PWM, PDM	UART, PWM, PDM	UART, PWM, PDM
	Power Supply	1.7-3.6 V + LDO/DCDC	1.7-3.6 V + LDO/DCDC	1.7-3.6 V + LDO/DCDC	1.7-5.5 V + LDO/DCDC	1.7-3.6 V + LDO/DCDC	1.7-5.5 V + LDO/DCDC
Ç	Crystals	32 MHz	32 MHz & 32 kHz	32 MHz & 32 kHz	32 MHz & 32 kHz	32 MHz & 32 kHz	32 MHz & 32 kHz
Misc.	Size (mm)	8 x 8 x 0.95	8 x 8 x 0.95	8 x 8 x 0.95	8 x 8 x 0.95	8 x 8 x 0.95	8 x 8 x 0.95
	Temperature	85°C	85°C	85°C	85°C	85°C	105°C

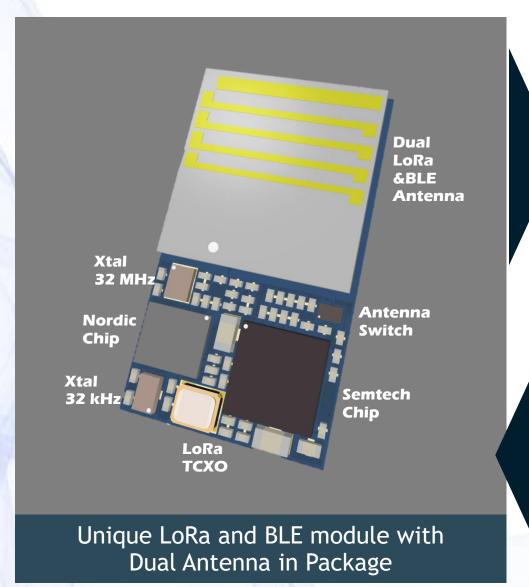






WIDE AREA NETWORK LORA

Lora Overview



ading Factor @ 125 kHz	Bit Rate	Indicative Range	Time on Air @ 10 Bytes
SF7	5470 bps	2 km	56 ms
SF8	3125 bps	4 km	100 ms
SF9	1760 bps	6 km	200 ms
SF10	980 bps	8 km	370 ms
SF11	440 bps	11 km	740 ms
SF12	290 bps	14 km	1400 ms

Configurable Long Distance Networking







MULTI BAND COMBO LORA



Combo LoRa / BLE module With Integrated Antenna Europe, America, Asia Bands

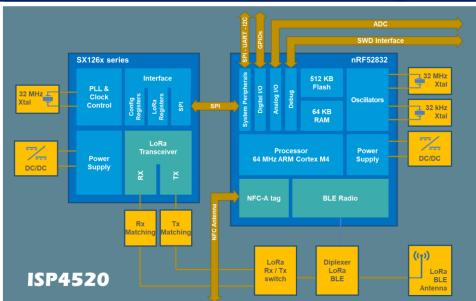


Key Features

- ✓ LoRa Alliance
- ✓ BT 5 Ready
- ✓ NFC-A Tag for OOB pairing
- ✓ Fully integrated LoRa & BLE Antennas
- ✓ Integrated LoRa TCXO & BLE XtalsLoRa based SX126x
- ✓ BLE based nRF52
- EU Variant863-870 MHz 14 dBm
- US Variant902-928 MHz 22 dBm
- ✓ AS Variant920-923 MHz 14 dBm

- Externally Controlled or using embedded 32-bit
 ARM M4F CPU
- √ 512 kB Flash 64 kB RAM
- ✓ DC/DC converters
- ✓ Analog, Digital peripherals
- ✓ SPI interface
- ✓ Supply 2.8V-3.6V
- √ Temp. -40 to +85 °C
- ✓ Size 9.8 x 17.2 x 1.7 mm





Certifications

FC

 ϵ

16160

LoRa Alliance

Bluetooth



MULTI BAND COMBO LORA



Test Boards Mote & Gateway Development Kit



Tx Test Board / Mote

- ✓ Consists of a module mounted on a PCB
- ✓ Includes a connection to the Insight SiP generic Interface Board
- ✓ Offers test points for all IOs and can be used in conjunction with a Nordic Development kit.



Rx Test Board / Gateway

- Consists of a PCB integrating an ISP4520 module and a USB plug for connection to a PC port com
- Enables to communicate with a Mote in a point to point connectivity mode through LoRa standards.



Development Kit

- ✓ Offers the perfect solution to start with ISP4520, including ...
- ✓ 1 x Interface Board with integrated J-Link Emulator
- ✓ 1 x Tx Test Board / Mote
- ✓ 1 x Rx Test Board / Gateway
- Example firmware codes for both Mote & Gateway demonstrating temperature sensor application
- ✓ Including LoRaWAN stack ported on nRF52 platform

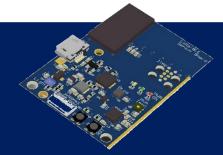




COMBO UWB

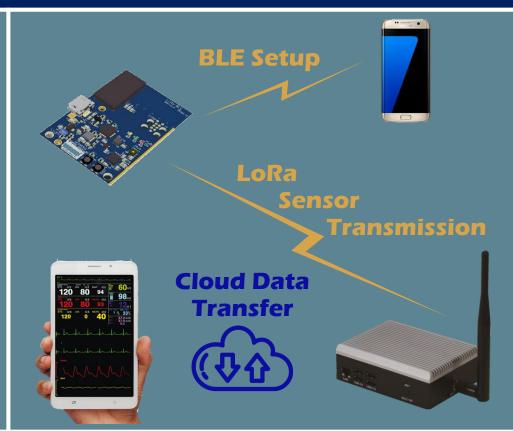


LoRa & BLE Multi Sensor Demo Based on iSP4520



Key Features

- ✓ LoRa Alliance based on SX1261
- ✓ BT 5 Ready based onnRF52
- ✓ Fully integrated LoRa & BLE Dual Matching and Antenna
- ✓ Integrated Xtals LoRa 32 MHz, BLE 32 MHz & 32.768 kHz
- ✓ Supply 2.8V-3.6V
- √ Temp. -40 to +85 °C
- ✓ Coin cell battery CR2032
- √ Accelero / Gyro / Magneto Sensor
- ✓ Temperature / Barometer
- ✓ Light Sensor
- ✓ Humidity Sensor
- Sensor Transmission with LoRa









POSITIONING MODULES ULTRA WIDE BAND

UWB OVERVIEW

UWB offers the best precise positioning performances

- WiFi and Bluetooth using RSSI method are sensitive to Multipath and Interference
- UWB using Time of Flight method, is unsensitive to both, and offers precision in 10 cm range

RF pulse straight edges give precise determination of arrival time

Ultra Wide Band with Noise

Ultra Wide Band with Noise

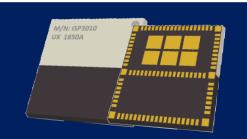
Ultra Wide Band with Reflections



COMBO UWB



High Performance Combo UWB / BLE module With Integrated Antennas



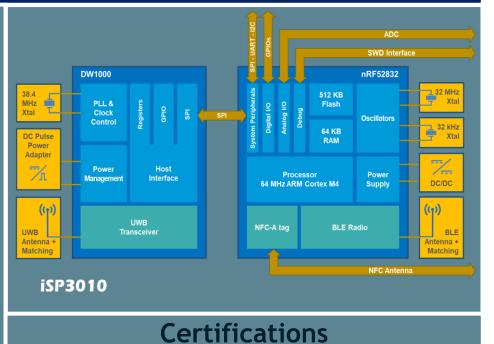
Key Features

- ✓ IEEE802.15.4-2011
- ✓ BLE V4.2
- ✓ NFC-A Tag for pairing
- ✓ Resolution < 10 cm</p>
- ✓ Fully integrated UWB & BLE Antennas
- ✓ Integrated Xtals UWB38.4 MHz, BLE32 MHz & 32.768 kHz
- ✓ UWB based DW1000
- ✓ BLE based nRF52
- ✓ Compact Size 14.0x14.0x1.5 mm
- √ Temp. -40 to +85 °C
- ✓ Supply 2.8V-3.6V

- Externally Controlled or using embedded 32-bit
 ARM M4F CPU
- ✓ 512 kB Flash
- ✓ 64 kB RAM
- ✓ DC/DC converters
- Analog, Digital peripherals
- ✓ SPI interface







CE

RoHS 3

Bluetooth



COMBO UWB



Test Board Anchor & Tag Boards Development Kit



Test Board

- ✓ Consists of a module mounted on a PCB
- ✓ Includes a connection to the Insight SiP generic Interface Board
- Offers test points for all IOs and can be used in conjunction with a Nordic Development kit



Anchor & Tag Boards

- Anchor Board consists of a PCB integrating an ISP3010 module and a USB plug for connection to a PC port com
- ✓ Tag Board consists of a small PCB integrating an ISP3010 module powered by a coin cell





Development Kit

- ✓ Offers the perfect solution to start with ISP3010, including ...
- ✓ 1x Interface Board with integrated J-Link Emulator
 ✓ 1x Test Board connected to the
- 1x Test Board connected to the Interface Board for testing purpose
- ✓ ¹1x Anchor Board
- ✓ 1x Tag Board
- ✓ 1x NFC antenna
- A ranging demonstration including the embedded firmware and the Android App

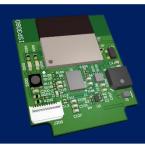




SECURITY BUBBLE

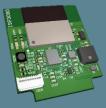


Social Distancing Application Precise accuracy of few cm Tag HW & SW Demo



Tag Hardware

- ✓ Combo UWB BLE ISP3010 module
- ✓ Accelerometer
- ✓ Buzzer
- ✓ LEDs
- ✓ Wireless charging for small batteries
- ✓ Programming interface

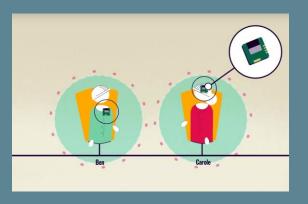


Distance measurement

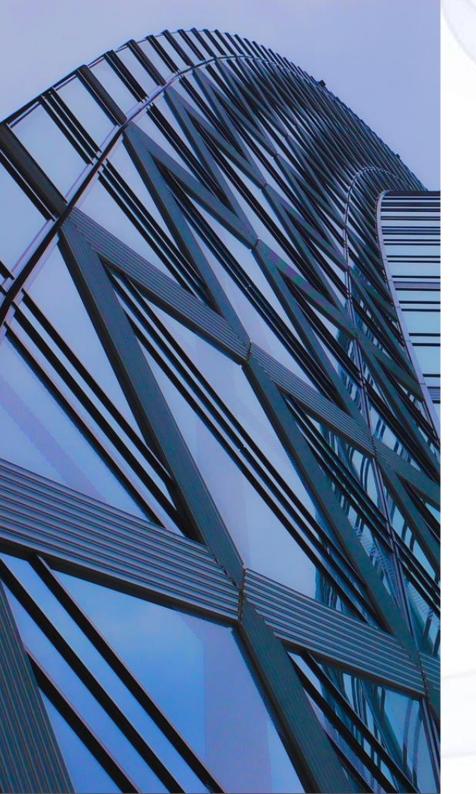


Tag Firmware

- ✓ Far BLE detection of tags in a large area around the Security Bubble
- ✓ Close and precise UWB detection to alert if another tag comes into the Security Bubble
- √ Conform to GDPR regulations









POSITIONING MODULES BT 5.1

BT 5.1 OVERVIEW

Enhanced low cost location services with BT 5.1

- Former BT location systems was based on RSSI only, with poor precision
- Direction finding provide improved precision at Bluetooth cost for asset tracking and people location

Angle of Arrival (AoA) and Angle of Departure (AoD) makes use of the angular phase-shifts that occur between antennas as they receive or transmit RF signals

This full system is made of anchor units positioned in line of sight manner

Antenna arrays at both side of the communication link are providing phase

Position of tagged items are calculated by triangulation from different anchors

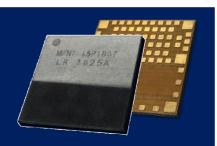




BT 5.1 DIRECTION FINDING



AoA BT 5.1 Complete Extended Solution For Tags and Anchors



Key Features

- ✓ Ultra Small LGA 8 x 8 x 1 mm
- ✓ BT 5.1 Long Range BLE transceiver
- √ 32-bit ARM Cortex M4 or M4F CPU
- √ 192 MB or 512 MB Flash
- √ 24 KB or 128 KB RAM
- ✓ Set of 13 or 30 lOs included
- ✓ Radio 32 MHz & Synchro 32 kHz Xtals
- ✓ Decoupling and DCDC circuit on board

32MHz Xtal & Caps Flash Analog I/O SWD interface SPI_I2C,UART,USB System Peripherals Processor ARM ARM CryptoCell 310 Power supply Storage Inductor & Caps NFC tag

ISP1907-LL

- ✓ Best suited for Tags
- Price sensitive & simple applications

ISP1907-HT

- Required for Anchors
- ✓ Large computing capabilities
- ✓ More interfaces

Certifications

















BT 5.1 DIRECTION FINDING



Evaluation Board Test Board AoA Kit



Test Board

- ✓ Specific test board of required P/N compatible with any Kit
- ✓ Test Boards integrate a "Connector Debug In" port compatible with Nordic Dev kits
- ✓ All IOs "Test Point" on board



Evaluation Board

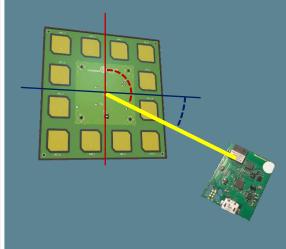
- ✓ 1 interface board with J-Link Cortex emulator
- √ 1 test board





AoA Kit

- ✓ ISP1907 Anchor Board based on ISP1907-HT with 3D Array Antenna
- ✓ 2x ISP1907 Tag Boards based on ISP1907-LL with sensors





ANY QUESTION?

CONTACT US contact@insightsip.com



