

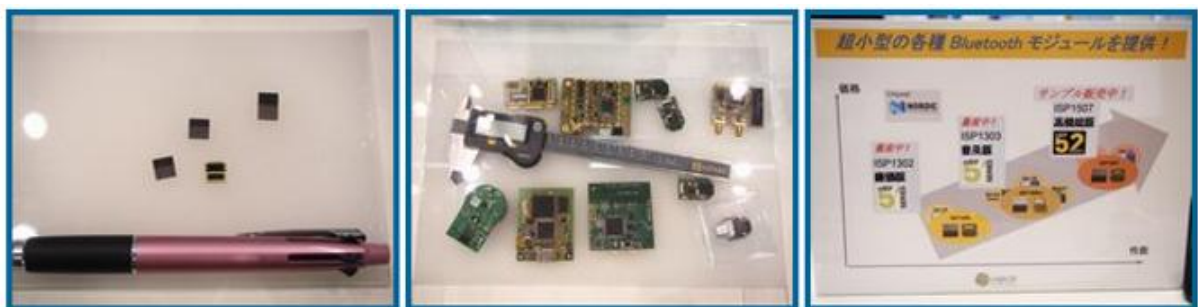
Wireless Japan/WTP 2016:**10 years spent on developing SiP, IoT would bring the next big jump**

InsightSip, a French based company, specializes in SiP (System in Package). The company celebrating its 10 year anniversary in 2016 has exhibited its products portfolio at [Wireless Japan 2016] held at Tokyo Big Sight from May25 to 27th.

Modules less than 1mm thickness

The BLE module InsightSip displayed are [ISP1302] and [ISP1507] and some others. They are packaged in a SiP that integrate BLE chipset, Processor, Antenna, DC-DC converter, Crystal and memories and ISP1507 and ISP1302 are the company's next generation products. ISP1507 are currently in the sampling phase.

ISP1507 contains Nordic Semiconductor' BLE chipset [nRF52 series]. The processor core is changed from ARM Cortex-M0 to ARM Cortex-M4. It accumulates more memory and also NFC. It features its thickness in less than 1mm. Mr. Michel Beghin, CEO at InsightSip, stresses that the module with less than 1mm thickness can be stored inside a smart card.



Left: ISP1302 & ISP1507 and the small one is ISP1507: Right: InsightSiP module road map

Center: InsightSip products examples

10 years history in SiP design

10 years ago, InsightSip designed mainly Wi-Fi modules. Then the company added the design of 3G and 4G mobile network and BLE modules. The shipment of BLE has significantly increased and the annual shipment amounted to more than 100K units in 2015. In 2106, the shipment has maintained the momentum and the quarterly shipment in January to April exceeded the unit shipment in 2015.

Major reason for the strong unit growth is IoT (Internet of Things). Some of real use cases of InsightSip modules include, in the field of sports and health care, “a running shoes using a BLE module which analyzes running style, a patch stuck to body which measures body temperature, and a orthodontic treatment device which stimulates the bone surrounding the roots of your teeth using low level of light energy [OrthoPulse] introduced by Biolux Research”. In the industrial field, the modules have been adapted to a measurement tool, ground vibration sensing system, real-time operation monitoring system, and biogenic potential monitoring sensor. What’s more, a French cosmetic maker uses its BLE module as a peculiar case.

Mr. Beghin says that he has seen more and more deployment of modules in different fields. “For an example, multiple big makers have almost dominated the market share in smart phone industry and suppliers are limited. However, the situation in IoT market is totally different. I have seen sundry suppliers for IoT devices and components and new customers entering IoT market. What those customers need are “Plug and Play” products and we will provide them in SiP solution”

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