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By David Manners 20th June 2016

Insight SIP launches low cost BLE module

Insight SIP 1, the wireless RF module specialist, has packaged the nRF51822 chip from Nordic Semiconductor (running Bluetooth 4.1), a 32-bit ARM Cortex CPU, 128 kB flash memory, analogue and digital peripherals SPI, I2C and GPIO, a 16 MHz crystal, an RF antenna and matching circuit to form a standalone Bluetooth Low Energy node.



Called the ISP1302 the module is one of the smallest on the market with a size of 8x8x1 mm.

The module has been designed as a “Low Cost” option aimed at customers for whom unit price is critical, but do not want to compromise on radio performance or size.

Power consumption of typically 10.5 mA for transmission, 12.6 mA for reception, 2.3 μ A for standby mode and 0.5 μ A for deep sleep mode enables long battery lifetime.

Transmission output power reaches +4 dBm and reception sensitivity -93 dBm.