

#### TECHNICAL SUPPORT

Free technical support is provided via email to [support@i-syst.com](mailto:support@i-syst.com) and indirectly through blog post and community forums: <https://devzone.nordicsemi.com> <http://embeddedsoftdev.blogspot.ca/p/ehal-nrf51.html>

#### SOFTWARE SUPPORT

Nordic Bluetooth Low Energy stack and SDK can be downloaded from <http://developer.nordicsemi.com> with the provided product key

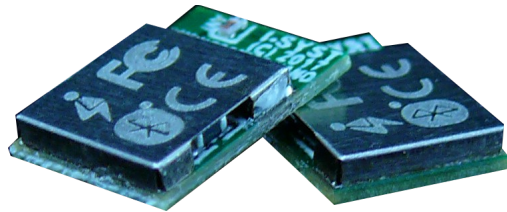
#### CUSTOMIZATION

I-SYST can assist you in both software and hardware development: Custom base board, BSP customization, Firmware development, etc...

For more information please visit us at: <http://www.i-syst.com>

# IMM-NRF52832-NANO

## ANT+ & Bluetooth® 5 Low Energy Module



The nRF52832 is an ultra low power System on Chip (SoC) from Nordic Semiconductor. It integrates the nRF52 series 2.4GHz transceiver, a 32 bits ARM® Cortex™-M4F CPU, Flash memory, analog and digital I/O. The nRF52832 supports Bluetooth Low Energy, ANT and proprietary protocols.

Many modules on the market that claimed to be the smallest usually have missing components such crystal, inductor, antenna, limited I/O pins, etc... Components which are needed to add externally. The end results they still occupy a big chunk of space on the PCB. Contrary to those, the IMM-NRF52832-NANO is the smallest module that has everything built into a single package 10 x 7 x 1.6 mm, full 30 I/O pin. There are no extra component to add to take full advantage of the nRF52832 in low power BLE5 and all it's I/O. The only space require on your PCB is the module size itself. It is ideal for wearable and space constrained applications.

### Features

- 32 bits ARM® Cortex™-M4F @ 64MHz.
- 2.4GHz multi-protocol transceiver
- 512KB Flash, 64KB SRAM.
- 32MHz & 32.768KHz crystals
- DC/DC power mode
- Type 2 NFC -A Tag with wakeup on field
- 30 configurable I/O pins
- 8 configurable 12 bits, 200 ksps ADC.
- Digital microphone interface
- 3 x 4 channel PWM
- AES HW encryption
- Temperature sensor
- Up to 4 PWM
- Digital interfaces SPI Master/Slave, 2-wire Master (I2C compatible), UART (CTS/RTS)
- Quadrature decoder
- Low power comparator
- Operating voltage : 1.8V to 3.6V
- Dimension : 10 x 7 x 1.6 mm
- FCC/CE certified

Quick start and examples code on

<http://embeddedsoftdev.blogspot.ca/p/ehal-nrf51.html>

Part # : IBLE832N

