



# Bluetooth® Low Energy Module

**The Arendi BLE Module is an antenna integrated surface-mount reference design with Bluetooth® Low Energy technology for cost sensitive applications.**

This reference design for OEM is based on Nordic Semiconductor nRF51822.

You can develop your own applications using Bluetooth Low Energy services and example applications available from Nordic Semiconductor.

## Key features

- Bluetooth® Specification Version 4.x
- Single mode low energy radio compliant
- Nordic Semiconductor nRF51822 based
- Bluetooth® LE protocol stack provided by Nordic Semiconductor (BLE SDK)

## General Specification

- nRF51822 SoC based
- Serial (SPI, I2C) interfaces
- Analog inputs
- PWM outputs
- I/O ports, with freely assignable functions
- Firmware update over the air
- Supports peripheral and central mode
- Power supply: 1.8..3.6V
- Small footprint: 17.0 mm x 11.0 mm x 2.5mm
- Integrated antenna
- Serial Wire Debug (SWD) interface from ARM
- FCC, IC, CE compliant (TBD)
- Bluetooth® qualifiable (TBD)
- RoHS compliant