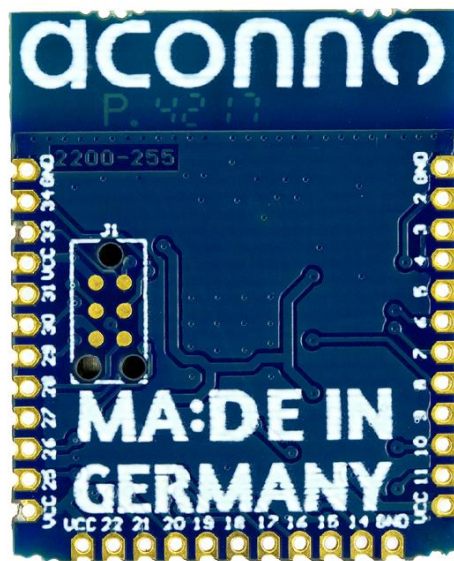


ACN52832

BT4.2 Smart Module
Fun prototyping for mass production

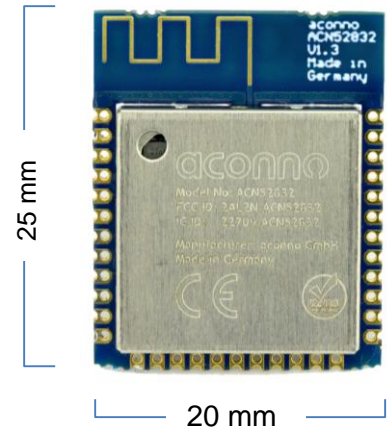


**MA:DE IN
GERMANY**

aconno™

ACN52832

The ACN52832 is a fully integrated, ultra-low power, Bluetooth 5.0 Low Energy module in a small form factor, featuring the advanced Nordic Semiconductor nRF52832 SoC. Its capabilities are tailored for the upcoming demands of sophisticated IoT devices where small size, low power, application performance and radio-range are essential. Unlike many competitors it features a maker-friendly PCB scale package that allows fast and easy integration without sacrificing access to its advanced peripherals and capabilities.



Use cases:

- IoT (Smart home, sensor networks, building automation)
- Beacons
- Personal Area Network (Health / fitness monitor, medical devices, gaming, remote control, VR / AR)
- A4WP wireless chargers and devices

Advantages:

- Based on Nordic Semiconductor's nRF52832 Bluetooth 5 Low Energy SoC
- 64 MHz ARM® Cortex™-M4 CPU with DSP
- 512 KB Flash + 64 KB RAM
- 28 GPIOs with flexible module pin mapping (I2C, UART, I2S, NFC, PWM)
- Excellent RF performance
- Multiprotocol Bluetooth 5, ANT/ANT+ and 2.4 GHz proprietary System-on-Chip
- CE, CE RED, FCC, IC certified. RoHS compliant.
- Easy to flash firmware through Tag-Connect connector
- Available with and without an LED
- Very energy efficient - runs for years on a coin cell battery
- Made in Germany

Device Specifications:

- Ultra-low power consumption
- 32-bit ARM® Cortex™ M4F high performance 64 MHz core with 512KB Flash / 64 KB RAM
- Full set of digital interfaces including: SPI/2-wire/I²S/UART/TWI/PDM/PWM/QDEC with EasyDMA
- Programmable peripherals for CPU-less operation
- Two on-board precision crystal clock sources
- NFC-A Tag
- 12-bit / 200 KSPS ADC
- Low power comparator
- Quadrature decoder
- RGB LED
- -20 dBm to +4 dBm output power
- Weight: 2.1g
- Temperature range: -40°C to +85°C

Let's do I(o)T together!