



RTL8762E Series



General Description

- Supports Bluetooth 5.2 core specification+2.4GHz proprietary
- Supports LE 2Mbps
- LE advertising Extensions
- LE Long Range
- High Duty Cycle Non-Connection Advertising
- Supports OTA (Over-the-Air)
- Supports AoA/AoD



Peripheral Interface

- Flexible GPIO
- Hardware Keyscan and Quad-decoder
- Embedded IR transceiver & receiver
- Real-Time Counters (RTC)
- SPI master/slave x 2; Timers x 8; I2C x 2; PWM x 8; UART x 2
- 400ksps, 10bit, 4CH AUXADC
- I2S/PCM interface
- Internal 32K RCOSC to keep BLE link
- Embedded PGA and audio ADC



MCU Platform

- ARM Cortex-M0+ max frequency 40MHz
- 104KB SRAM totally
- Serial Flash Controller (1-bit&4-bits mode) with 8KB 4-way cache
- Supports AES 128/192/256 encryption/decryption engine
- Flash 512KB/1024KB (depends on part number)



RF Performance

- Tx Power: 0/4/7.5 dBm adjustable (refer to datasheet for details)
- Rx Sensitivity: -97dBm@1M
- Fast AGC control to improve receiving dynamic range