RTL8762G / RTL877xG Series

General Description

- Supports Bluetooth 5.3 compliant specification
- LE Audio feature
- Over-the-air (OTA) programming mechanism for firmware upgrade
- Generic applications for GAP central, peripheral, observer and broadcaster roles
- 2.4GHz proprietary
- Zigbee IEEE 802.15.4
- Thread protocol & Matter application

MCU Platform

- KM4 core compatible ARM-M55 core MAX@125MHz
- M-profile Vector Extension (MVE) for vector computation
- Trust Zone inside PSA-Level2
- Icache 32KB, Dcache 16KB, SRAM 384KB
- Some part numbers MCM 4MB PSRAM
- AES128/256、RSA 3072、ECC 512、ECDH、ECDSA、EDDSA、SHA256、TRNG
- Secure Boot、Secure OTA、Firmwear encryption (on-the-fly execution)

Peripheral Interface

- Hardware keyscan / Quad Decode
- Embedded IR TX/RX
- ISO7816
- SPIC / SPI_m / SPI_s / SDIO / SD (eMMC)
- Low power comparator
- 8CH - AUXADC
- 24bit HD ADC
- CAN
- RMII for Ethernet
- I2S/DAC/AMIC/DMIC/PDM
- Sample rates: 8K/16K/24K~48KHz
- SPIC/RGB888/SEGCOM
- USB2.0 High Speed

RF Performance

- A config: 0-4dBm
- B config: 0-14dBm
- BLE Receive sensitivity (min.): -98dBm (1M BLE) and -95dBm (2M BLE)
- 15.4 Receive sensitivity: -102dBm (250 kbps O-QPSK DSSS)