



RTL8773D Series



General Description

- Bluetooth 5.4 core specification
- BR/EDR/LE-1M/LE-2M
- LE audio (depends on part number)
- OTA (Over-the-Air) FW upgrade
- Support speaker out
- Analog mic input
- Digital mic input
- Built-in LDO for the I/O and FLASH memory
- Built-in Li-Ion battery charger with up to 400mA charger current



MCU Platform

- Cortex-M4F, 32-bit ARMv8M mainline processor, maximum frequency 160MHz
- Total of 532KB MCU/DSP shared SRAM
- HiFi-4 DSP, 32-bit, maximum frequency 320MHz
- Total maximum of 3.4MB DSP RAM
- Supports AES 128, SHA256, RSA-3072 encryption and decryption engine
- Built-in Flash 8MB/16MB (depending on part number)



Peripheral (depends on part number)

- Flexible GPIO Design
- Real Time Counter(RTC)
- 4 CH 12 bits ADC
- USB 2.0
- I2C
- I2S interface for external audio processor
- UART
- Line in, L/R channel
- SPI
- PDM interface for digital mic input
- PWM
- SPIC
- SPDIF (depends on part numbers)
- Available GPIOs : 50 pins



RF Performance

- Maximum transmission power 10.0 dBm @EDR 2M (for details, please refer to the datasheet)
- Maximum transmission power 12.5 dBm @BLE (for details, please refer to the datasheet)
- Receiver sensitivity -96.0 dBm (1M BR)
- Receiver sensitivity -96.0 dBm (2M EDR)
- Receiver sensitivity -101.0 dBm (1M BLE)
- Fast AGC control to improve receiving dynamic range



Audio Codec Support

- SBC codec
- mSBC codec
- AAC codec
- LC3 codec