

Wi-Fi Module

Wi-Fi Module(Mediatek MT7687F)

WFM-M697

MFM-M697 is a Wi-Fi module based on the most advanced Mediatek chipset MT7697, it is a highly integrated single chip which features an application processor, a low power 1x1 11n dual-band Wi-Fi subsystem, a Bluetooth subsystem, and a Power Management Unit. The application processor subsystem contains an ARM Cortex-M4F MCU. It also includes many peripherals, including UART, I2C, SPI, I2S, PWM, IrDA, and auxiliary ADC. It also includes embedded SRAM/ROM.

The Wi-Fi subsystem contains the 802.11b/g/n radio, baseband, and MAC that are designed to meet both the low power and high throughput application. It also contains a 32-bit RISC CPU that could fully offload the application processor.

The Bluetooth subsystem contains the Bluetooth radio, baseband, link controller. It also uses the same 32-bit RISC CPU for the Bluetooth protocols.

Features

- Support IEEE 802.11 b/g/n Standard
- Built in IPEX compatible antenna or PCB antenna
- Main chip: Mediatek MT7697
- Frequency range: Wi-Fi : 2.412GHz-2.484GHz
BT: 2.402GHz-2.480GHz
- CPU Clock: 192MHz
- Memory capacity: ILM ROM 832KB
ILM RAM 320KB
- Flash size: SOIC-8
- PCB stack: 4 layers
- Interface: UART 、 PWM 、 I2C 、 I2S 、 SPI 、 IrDA
- Operating Voltage: DC 3.3V +/- 10%
- RoHS Compliant
- Dimension: 37 mm x 18 mm x 1mm

Outline

