

Wi-Fi Module

Wi-Fi Module(Mediatek MT7687F)

WFM-M687

MFM-M687 is a Wi-Fi module based on the most advanced Mediatek chipset MT7687F, it is a highly integrated single chip which features an application processor, a low power 1x1 11n single-band Wi-Fi 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 and a 2MB serial flash in package.

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.

Features

- Support IEEE 802.11 b/g/n Standard
- Built in IPEX compatible antenna or PCB antenna
- Main chip: Mediatek MT7687F
- Frequency range: 2.412GHz-2.484GHz
- CPU Clock: 160MHz
- Memory capacity: ILM ROM 832KB
ILM RAM 320KB
FLASH 2MB
- Flash size: N/A
- 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

