

CHANGHONG 长虹

WIFI-2-M06USA1

WLAN 802.11b/g/n module

特性 Features:

➤ **接收制式 Reserving System**

IEEE Std. 802.11b

IEEE Std. 802.11g

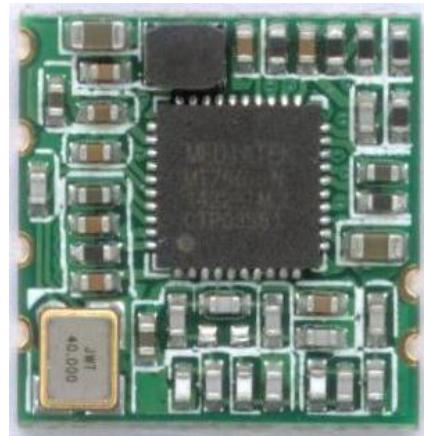
IEEE Std. 802.11n

➤ **芯片方案 Chip Solution**

MT7601UN

➤ **波段 Band**

2.4G



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1. Introduction

WIFI-2-M06U is based on MTK MT7601, complied with IEEE 802.11b/g/n standard from 2.4-2.5GHz. This documentation describes the engineering requirements specification.

1.1 RF module Overview

The general HW architecture for the module is shown in Figure 1. This WLAN Module design is based on MTK MT7601. It is a highly integrated single-chip MIMO(Multiple In Multiple Out) Wireless LAN (WLAN) USB2.0 network interface controller complying with the 802.11n specification. It combines a MAC, a 1T1R capable baseband, and RF in a single chip. The MT7601 provides a complete solution for a highthroughput performance wireless client.

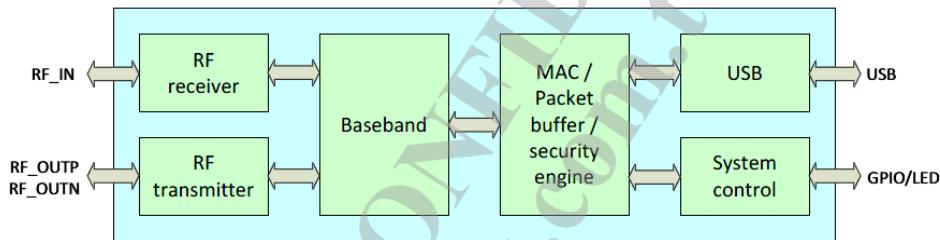


Figure 1 WIFI-2-M06U Block Diagram

1.2 Specification reference

This specification is based on additional references listed below.

- IEEE Std. 802.11b
- IEEE Std. 802.11g
- IEEE Std. 802.11n

1.3 System Functions

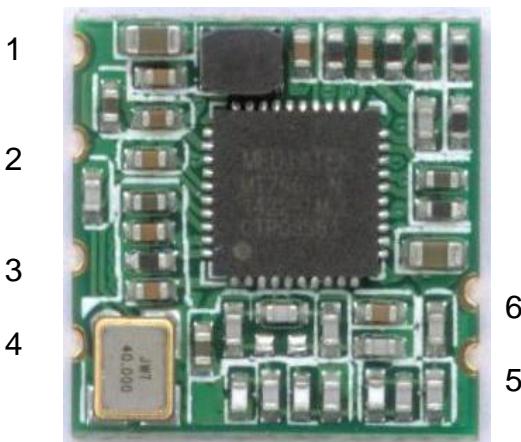
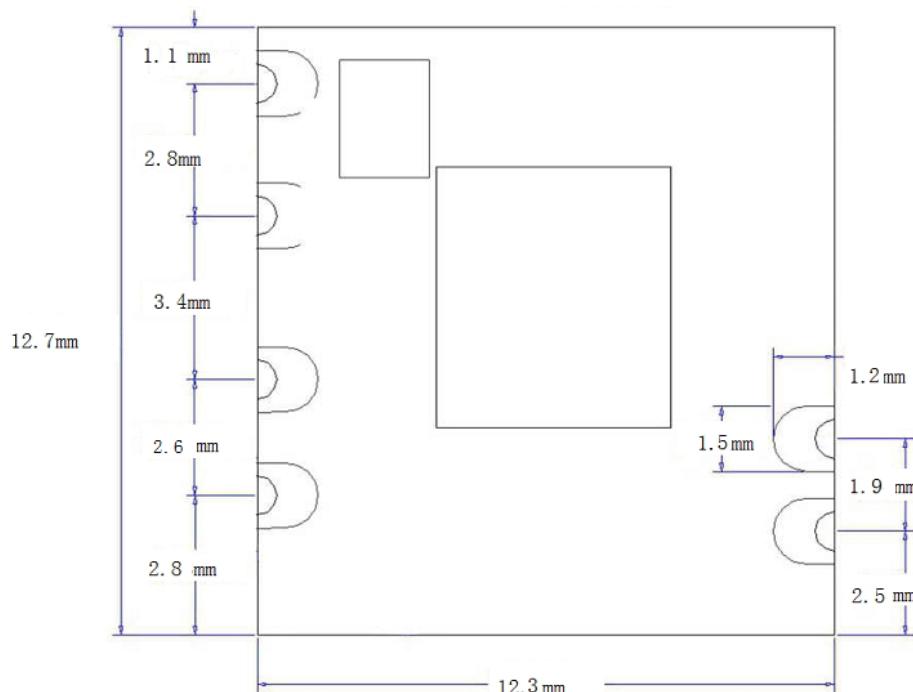
Table1: General Specification as below:

Main Chipset	MTK MT7601UN
Operating Frequency	2.412~2.472GHz
WiFi Standard	802.11b/g/n(1x1)
Modulation	11b: DBPSK, DQPSK and CCK and DSSS 11g: BPSK, QPSK, 16QAM, 64QAM and OFDM 11n: MCS0~15 OFDM
Data rates	11b:1, 2, 5.5 and 11Mbps 11g:6, 9, 12, 18, 24, 36, 48 and 54 Mbps 11n: MCS0~15, up to 150Mbps
Form factor	6pin
Host Interface	USB 2.0
PCB Stack	4-layers design
Dimension	Typical, 12.3mm(W)*12.7mm(L)*1.95mm(H)
Operation Temperature	0°C to +60°C
Storage Temperature	-15°C to +45°C
Operation Voltage	3.3V +/-10% (Ripple: ≤30mVp-p)
Ratings	3.3V == 500mA

2. Mechanical Specification

Typical Dimension (W x L x T): 12.3mmx 12.7mm x 1.95mm (tolerance : +/-0.15 mm)

PCB Thickness: 1.0mm



Pin	TYPE
1	power3.3v
2	UDN
3	UDP
4	GND
5	GND
6	ANT

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: 1) this device may not cause harmful interference, and 2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

--Reorient or relocate the receiving antenna.

--Increase the separation between the equipment and receiver.

--Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

--Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Radiation Exposure Statement

This modular complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Attention: Limited Modular Approval - this RF Module may not be sold to the generic public and requires professional installation. Due to the fact that this RF Module is not equipped with an own shielding, the end-product incl. this RF Module has to show compliance to the FCC rules (15C / radiated emissions).

(OEM) Integrator has to assure compliance of the entire end-product incl. the integrated RF Module. Additional measurements (15C) and/or equipment authorizations

(e.g either a complete new certification or a Class II Permissive Change) may need to be addressed depending on co-location or simultaneous transmission issues if applicable.

Integrator is reminded to assure that these installation instructions will not be made available to the end-user of the final host device.

The Integrator will be responsible to satisfy SAR/ RF Exposure requirements, when the module integrated into any (portable, mobile, fixed) host device.

The final host device, into which this RF Module is integrated" has to be labeled with an auxiliary label stating the FCC ID of the RF Module, such as "Contains FCC ID: 2AC49-M06USA1".