

CHANGHONG 长虹

WIFI-2-M603USA1
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**
MTK MT7603U
- **结构大小 Size**
20mm x 16mm x 3.5mm



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1. 簡介: Brief description:

WIFI MODULE WIFI-2-M603USA1 is based on MTK MT7603U.complied with IEEE 802.11b/g/n standard from 2.4GHz.Supported for 300Mbps high speed wireless network connection.

1.2 Specification reference

This specification is based on additional references listed below.

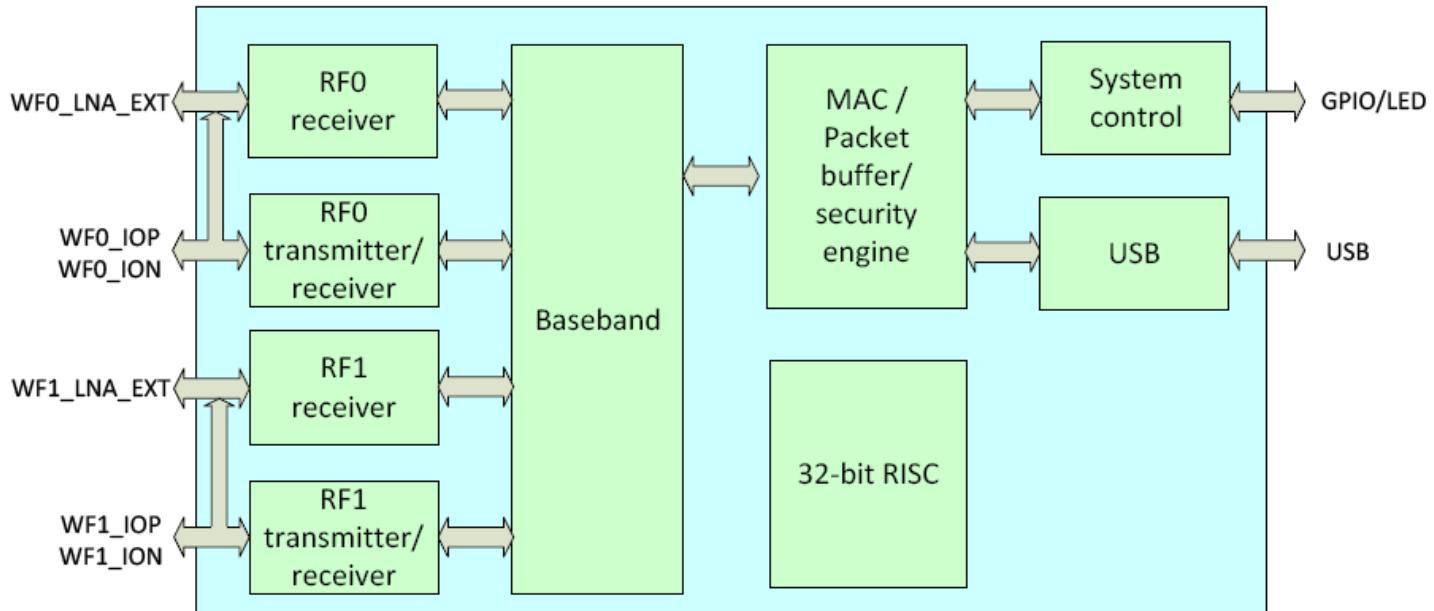
- _ IEEE Std. 802.11b
- _ IEEE Std. 802.11g
- _ IEEE Std. 802.11n

1.3 System Functions

Table1: General Specification as below:

Main Chipset	MTK MT7603U
Operating Frequency	2.412~2.472GHz
WiFi Standard	802.11b/g/n(2x2)
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, 20mmx 16mm x 3.7mm
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

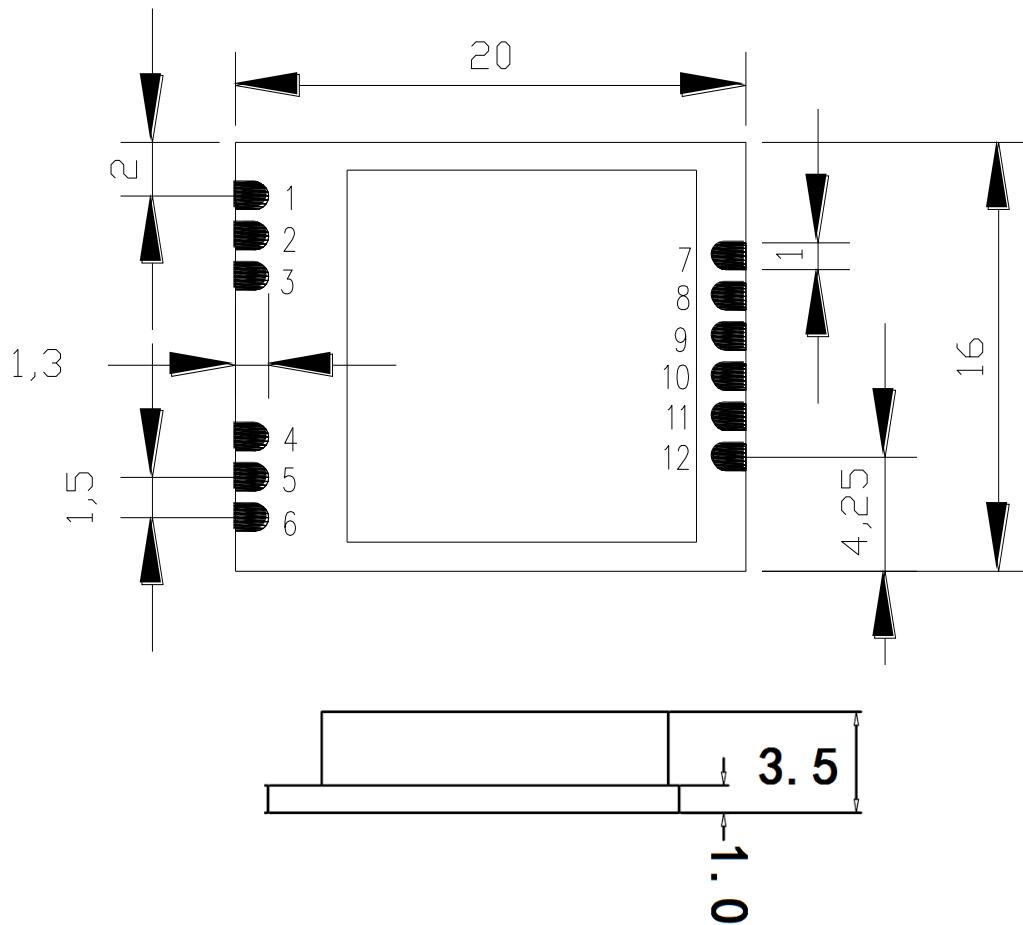
2. 原理图: Block diagram:



3. 外型及安装尺寸: Package outline and Mounting:

Typical Dimension (W x L): 20mmx 16mm x 3.7mm

PCB Thickness: 1mm



Comments: All dimension tolerance should reference +/-0.15mm

5. 引脚定义: Pin Definition:

Pin	Symbol	Description
1,3,4,6	GND	Connected to Ground
2	ANT0	Antenna 0
5	ANT1	Antenna 1
7	GND	Connected to Ground
8	D+	USB Data DP
9	D-	USB Data DN
10	VCC	+3.3V DC Power supply input
11	SLEEP	WiFi sleep
12	Wake	WiFi wake Host

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.

Note 1: Compliance of this device in all final host configurations is the responsibility of the Grantee. OEM integrators are responsible to satisfy RF exposure requirements. SAR evaluation is valid for mobile applications.

Note 2: Any modifications made to the module will void the Grant of Certification, this module is limited to OEM installation only and must not be sold to end-users, end-user has no manual instructions to remove or install the device, only software or operating procedure shall be placed in the end-user operating manual of final products.

Note 3: The device must not transmit simultaneously with any other antenna or transmitter.

Note 4: To ensure compliance with all non-transmitter functions the host manufacturer is responsible for ensuring compliance with the module(s) installed and fully operational. For example, if a host was previously authorized as an unintentional radiator under the Declaration of Conformity procedure without a transmitter certified module and a module is added, the host manufacturer is responsible for ensuring that the after the module is installed and operational the host continues to be compliant with the Part 15B unintentional radiator requirements. Since this may depend on the details of how the module is integrated with the host, Sichuan Changhong Electronic Component Co., Ltd. shall provide guidance to the host manufacturer for compliance with the Part 15B requirements.

Note 5: FCC ID label on the final system must be labeled with "Contains FCC ID: 2AC49-M603USA1"

The transmitter module must be installed and used in strict accordance with the manufacturer's instructions as described in the user documentation that comes with the host product. Sichuan Changhong Electronic Component Co., Ltd. is responsible for the compliance of the module in all final hosts.