



Model WF-M920T-USX1 Datasheet

IEEE 802.11 2x2 WiFi 6 Wireless LAN

and

Bluetooth 5.2

Combo Module

[SoC MT7920TUN]

for 802.11a/b/g/n/ac/ax + Bluetooth 5.2

Version: 1.1

<Specification may be changed without prior notice>

Sichuan AI-Link Technology Co., Ltd

四川爱联科技股份有限公司



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Please sign and return this page and the front page to our company by email or fax, or by courier to the following address:

Address: Anzhou Industrial Park, Mianyang, Sichuan, P.R.C

Company: Sichuan AI-Link Technology Co., Ltd.

Module Name		WF-M920T-USX1	
	Designed by	Reviewed by	Approved by
Signature	HUANG, Wei	FAN, Xijun	DING, Shuangpeng
Date	05/15/2022	05/15/2022	05/15/2022

Model WF-M920T-USX1

➤ Compatible WLAN Standards

IEEE Std. 802.11 a/b/g/n/ac/ax
Bluetooth V2.1/4.2/5.2

➤ SoC

MT7920TUN

➤ Product Size

23mm×30mm×2.6mm

➤ Product Weight

3 g



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Features

WLAN

- ✦ IEEE 802.11 a/b/g/n/ac/ax compliant
- ✦ Support 20MHz, 40MHz, 80MHz bandwidth in 2.4GHz,5GHz band
- ✦ Dual bands 2T2R mode
- ✦ data rate up to 1201Mbps with USB3.0(2.5Gbps)
- ✦ Support MU-MIMO RX
- ✦ Support uplink MU-OFDMA TX and downlink MU-OFDMA RX
- ✦ Support STBC, LDPC, TX Beamformer, and RX Beamformer
- ✦ Greenfield, mixed-mode, legacy modes support
- ✦ IEEE 802.11 d/e/h/i/j/k/mc/r/v/w support
- ✦ Security support for WFA WPA/WPA2/WPA3 personal, WPS2.0, WAPI
- ✦ QoS support of WFA WMM,WMM PS

Bluetooth

- ✦ Bluetooth v5.2 with BLE (BT low energy)
- ✦ Supports BT/BLE dual mode
- ✦ Supports BT/Wi-Fi coexistence
- ✦ Supports SCO and eSCO link with re-transmission
- ✦ Supports wide-band speech
- ✦ Supports mSBC and SBC including mono and stereo
- ✦ Supports Packet Loss Concealment (PLC) function for better voice quality
- ✦ Supports LE Isochronous channels
- ✦ Supports LC3 including mono and stereo
- ✦ Supports secure connection with AES128 and ECC256
- ✦ Channel quality-is drove data rate adaptation
- ✦ Channel assessment and WB RSSI for AFH

Revision Record

Revision	Date	Description	Edited by
V0.1	9/5/2022	Premier Release	HUANG, Wei
V0.2	9/26/2022	Add pictures	HUANG, Wei
V0.3	10/25/2022	Update target power	HUANG, Wei
V0.4	11/15/2022	Modify the 38th pin define	HUANG, Wei
V0.5	12/6/2022	Modify output power	HUANG, Wei
V1.0	01/05/2023	Add SRRC ID	HUANG, Wei
V1.1	05/15/2023	Add sequence	HUANG, Wei
<i>* Private Preview Only</i>			

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1 General Description

1.1 System Overview

Model WF-M920T-USX1 is a highly integrated WiFi module by AI-Link, based on the MediaTek SoC MT7920TUN, featuring a 2x2 a/b/g/n/ac/ax dual-band Wi-Fi, and a Bluetooth v5.2 subsystems.

The finely tuned hardware architecture and baseband algorithms provide superlative RF performance, as well as low power consumption. Intelligent MAC design powers a highly efficient offload engine; the hardware supports standard features of higher level of security, performance, and conforms most international regulations, offering the great performance at any time, in any circumstance.

1.2 System Properties

Dimension	Typically, 23mm x 30mm x 2.6mm
Chipset	MT7920TUN
Operating Frequency	2.4GHz: 2.412~2.462 GHz 5 GHz: 5.180~5.825GHz
Antenna	3 IPEX Connector
Operating Voltage	3.3V±5%
PCB Information	4-layers design (0.8+/-0.15mm)
Peripheral Interface	WIFI&BT@USB Note: USB uses frequency reduction processing, the rate is 2.5Gbps
Rate	11b: 1, 2, 5.5 and 11Mbps 11a/g: 6, 9, 12, 18, 24, 36, 48 and 54 Mbps 11n: MCS0~15, up to 300Mbps 11ac: MCS0~9, Nss=2, BW=80MHz up to 866.7Mbps 11ax: MCS0~11, Nss=2, BW=40MHz up to 573.5Mbps 11ax: MCS0~11, Nss=2, BW=80MHz up to 1201Mbps

Operating Temperature	-10°C to +70°C
Storage Temperature	-40°C to +85°C
ESD Protection	HBM: IO:2000V RF:6000V

1.3 Diagram

The hardware architecture for the module is shown in Figure 1. The AI-Link's WF-M920T-USX1 module Complies with IEEE standards 802.11a/b/g/n/ac/ax; it also supports 2x2 Multi-User Multiple-Input Multiple-Output (known as MU-MIMO) and could reach up to data rate of 1201 Mbps. Meanwhile, it is also a module of Bluetooth v5.2 and Wi-Fi Dual-band.

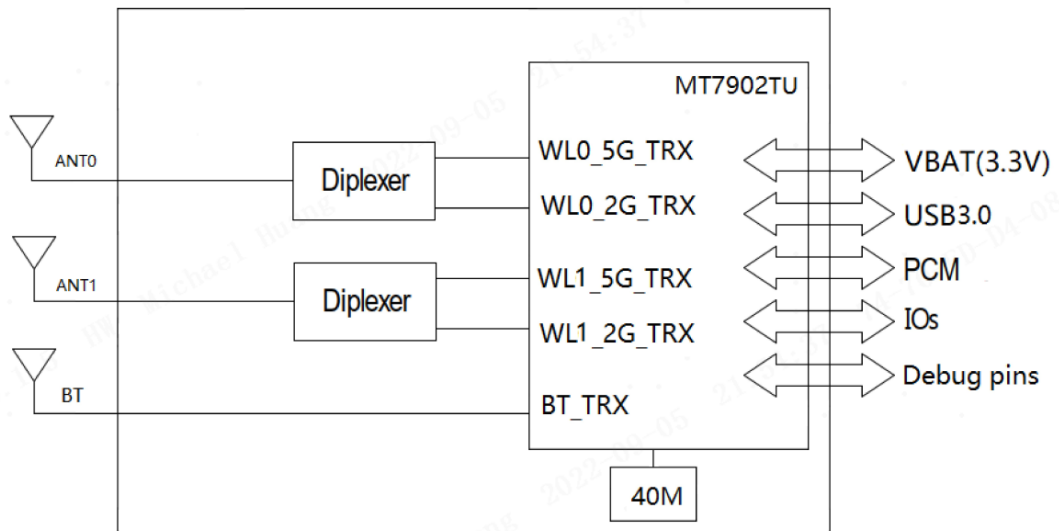
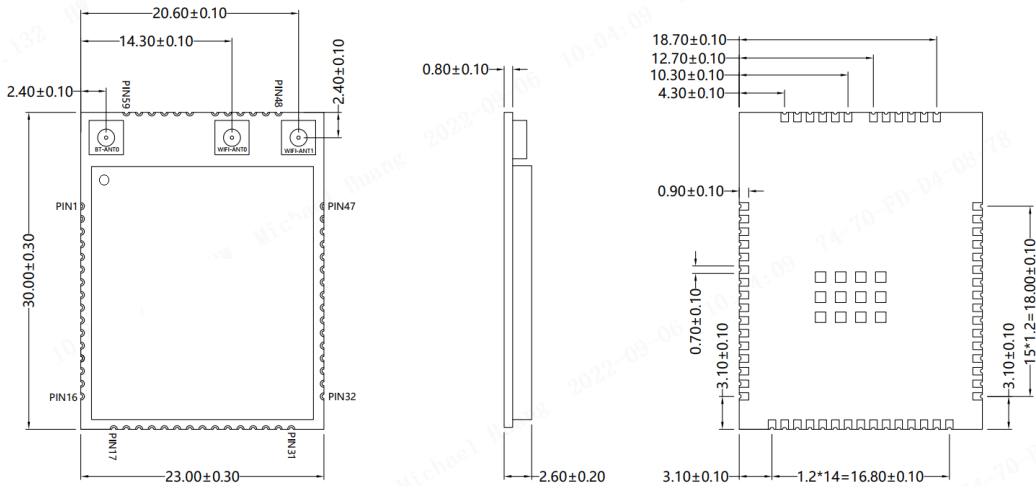


Figure 1: WF-M920T-USX1 Block Diagram

2 Mechanical Dimensions

2.1 Mechanical Outline Drawing

- ✚ Typical Dimension (W x L x T): 23.0mmx 30.0mm x 2.6mm
- ✚ General tolerance: $\pm 0.2\text{mm}$
- ✚ PCB Thickness: 0.8mm (+/-0.15mm)



Top View

Bottom View

2.2 Pin definitions

Pin	Define	Description	Pin	Define	Description
1	DBG_TX	DEBUG, WIFI FW LOG, Uart Tx GPIO13	31	GND	GND
2	NC	Not connect	32	USB DP	USB2.0 data D+
3	GND	GND	33	USB DM	USB2.0 data D-
4	NC	Not connect	34	GND	GND
5	NC	Not connect	35	NC	Not connect
6	GND	GND	36	BT WAKE	GPIO0, 蓝牙唤醒,内部 10K 上拉, 低电平有效
7	RESET	PMU RESET,内部 10K 上拉, 低电平有效	37	BT stereo	GPIO3, BT 立体语音同步
8	GND	GND	38	GPIO12	Timing Synchronization Function(TSF)
9	GND	GND	39	GND	GND
10	3.3V	POWER (请预留 2A, 纹波小于 5%)	40	NC	Not connect
11	3.3V	POWER (请预留 2A, 纹波小于 5%)	41	UART_RTS	GPIO11
12	GND	GND	42	UART_RX	GPIO14

13	NC	Not connect	43	UART_TX	GPIO15
14	NC	Not connect	44	GND	GND
15	PCM_SYNC	GPIO6, PCM SYNC	45	GND	GND
16	PCM_OUT	GPIO7, PCM OUT	46	DBG_TX	DEBUG, BT FW LOG, Uart Tx GPIO4
17	GND	GND	47	NC	Not connect
18	WIFI_WAKE	GPIO1, WIFI 唤醒, 内部 10K 上拉, 低电平有效.	48	GND	GND
19	PCM_CLK	GPIO10, PCM CLK	49	NC	Not connect
20	PCM_IN	GPIO8, PCM IN	50	GND	GND
21	NC	Not connect	51	GND	GND
22	GND	GND	52	NC	Not connect
23	U3-TXN	USB3.0 TXN, 连接主平台 RXN. 模组 USB3.0 做了降频处理, 速率为 2.5Gbps, 主控也需要降频处理	53	GND	GND
24	U3-TXP	USB3.0 TXP, 连接主平台 RXP. 模组 USB3.0 做了降频处理, 速率为 2.5Gbps, 主控也需要降频处理	54	GND	GND
25	GND	GND	55	NC	Not connect
26	NC	Not connect	56	GND	GND
27	NC	Not connect	57	GND	GND
28	GND	GND	58	NC	Not connect
29	U3-RXN	USB3.0 RXN, 连接主平台 TXN. 模组 USB3.0 做了降频处理, 速率为 2.5Gbps, 主控也需要降频处理	59	GND	GND
30	U3-RXP	USB3.0 RXP, 连接主平台 TXP. 模组 USB3.0 做了降频处理, 速率为 2.5Gbps, 主控也需要降频处理			

2.4 Product Photos



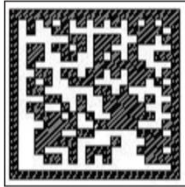
TOP View



BOT View

2.5 Label Information

Top Label



WF-M920T-USX1

CMIIT ID: 2022AP19235(M)

四川爱联科技股份有限公司

- WIFI MAC information DM code
- Part number: WF-M920T-USX1
- SRRC ID
- Company information
- ✚ BT Mac =WIFI Mac + 1

3 RF Characteristics

3.1 Wi-Fi Subsystem

Items	Contents	
WLAN Standard	IEEE 802.11a/b/g/n/ac/ax	
Frequency Range	2.400 GHz ~ 2.483.5 GHz (2.4 GHz)	
	5.150 GHz~5.850 GHz (5 GHz)	
Channels	CH1 to CH11 @ 2.4G	
	CH36 to CH165 @ 5G	
Modulation Mode	802.11b: DBPSK, DQPSK ,CCK	
	802.11 a/g/n: BPSK, QPSK, 16QAM, 64QAM	
	802.11 ac: BPSK, QPSK, 16QAM, 64QAM,256QAM	
	11ax: BPSK, QPSK, 16QAM, 64QAM,256QAM,1024QAM	
Output Power Min& EVM	Power Value	EVM
	802.11b /11Mbps: 16dBm±2	≤ -10dB
	802.11g /54Mbps: 15dBm±2	≤ -25dB
	802.11a /54Mbps: 15dBm±2	≤ -25dB
	802.11n HT20 /MCS7: @2.4G 14dBm±2	≤ -28dB
	802.11n HT20 /MCS7: @5G 14dBm±2	≤ -28dB

Items	Contents	
	802.11n HT40 /MCS7: @2.4G 14dBm±2	≤ -28dB
	802.11n HT40 /MCS7: @5G 14dBm±2	≤ -28dB
	802.11ac VHT20 /MCS8: @5G 14dBm±2	≤ -32dB
	802.11ac VHT40 /MCS9: @5G 13dBm±2	≤ -32dB
	802.11ac VHT80 /MCS9: @5G 13dBm±2	≤ -32dB
	802.11ax HE20 /MCS11: @2.4G 13dBm±2	≤ -35dB
	802.11ax HE20 /MCS11: @5G 12 dBm±2	≤ -35dB
	802.11ax HE40 /MCS11: @2.4G 13dBm±2	≤ -35dB
	802.11ax HE40 /MCS11: @5G 12 dBm±2	≤ -35dB
	802.11ax HE80 /MCS11: @5G 12 dBm±2	≤ -35dB
Receiver Sensitivity @2.4G PER≤ 10% @5G PER≤ 10%	Rate Type	Max
	802.11b /11Mbps @2.4G PER≤8%	-85dBm
	802.11g /54Mbps @2.4G	-72dBm
	802.11a /54Mbps @5G	-71dBm
	802.11n HT20 /MCS7 @2.4G	-68dBm
	802.11n HT20 /MCS7 @5G	-68dBm
	802.11n HT40 /MCS7 @2.4G	-67dBm
	802.11n HT40 /MCS7 @5G	-67dBm
	802.11ac VHT20 /MCS8 @5G	-64dBm
	802.11ac VHT40 /MCS9 @5G	-58dBm
	802.11ac VHT80 /MCS9 @5G	-56dBm
	802.11ax HE20 /MCS11 @2.4G	-57dBm
	802.11ax HE20 /MCS11 @5G	-57dBm
	802.11ax HE40 /MCS11 @2.4G	-55dBm
	802.11ax HE40 /MCS11 @5G	-55dBm
802.11ax HE80 /MCS11 @5G	-51dBm	

3.2 Bluetooth Subsystem

Items	Contents			
Host Interface	USB			
TX Characteristics				
Channel	BR、EDR:CH0 toCH78			
	LE:CH0 to CH39			
Modulation	GFSK、 $\pi/4$ -DQPSK、8PSK			
TX Power	Rate Type	Min(dBm)	Typ(dBm)	Max(dBm)
	1DH5	4	8	12
	2DH5	4	8	12
	3DH5	4	8	12
	1LE	4	8	12
	2LE	4	8	12
RX Characteristics				
RX	Rate Type	Min(dBm)	Typ(dBm)	Max(dBm)
	1DH5 (BER<0.1%)		-92	-70
	2DH5 (BER<0.01%)		-90	-70
	3DH5 (BER<0.01%)		-85	-70
	1LE (PER<30.8%)		-92	-70
	2LE (PER<30.8%)		-89	-70

* Note: [1] Typical RF Output Power are tested at room temp.25°C

4 Interface

4.2 USB Interface

The module supports the USB (USB v3.0 specification) device port, Use USB as the host interface for Bluetooth. And USB uses frequency reduction processing, the rate is 2.5Gbps.

5 Electrical Current Consumption

5.1 WLAN Current Consumption

Description	Value	Unit
Power Consumption (WIFI TX)	898	mA
Power Consumption (WIFI RX)	186	mA

**Note:*

[1] Results are measured provided VDD33 is 3.3V. TX power is measured at the antenna port. The temperature is 25oC.

[2] The duty cycle for TX/RX measurement is 100%.

[3] The chip variation is +/- 25%.

5.2 Bluetooth Current Consumption

Description	Value	Unit
Power Consumption (BT TX)	88	mA
Power Consumption (BT RX)	27	mA

**Note:*

[1] Results are measured provided VDD33 is 3.3V. TX power is measured at the antenna port. The temperature is 25oC.

[2] The duty cycle for TX/RX measurement is 100%.

[3] The chip variation is +/- 25%

6 Software Information

6.1 RF Driver

QAtool

6.2 Normal Driver

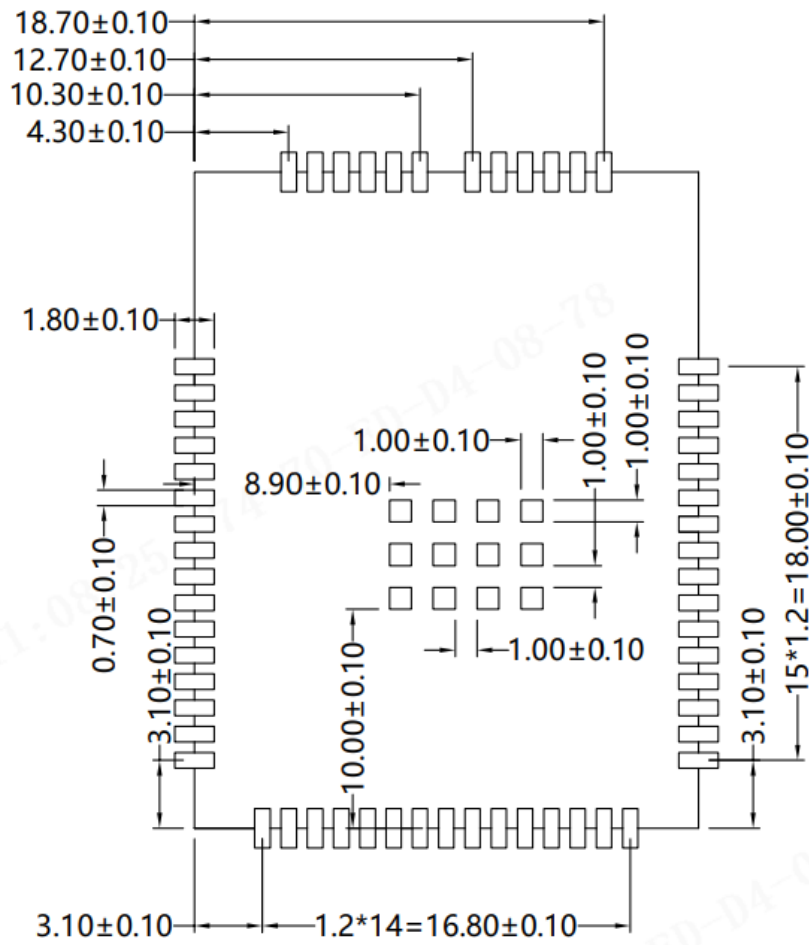
Linux

**Note:*

The software (driver) package version is subject to change without notice because it may encounter several updates. It is advised to consult with AI-Link for the best right driver package.

7 Reference Design

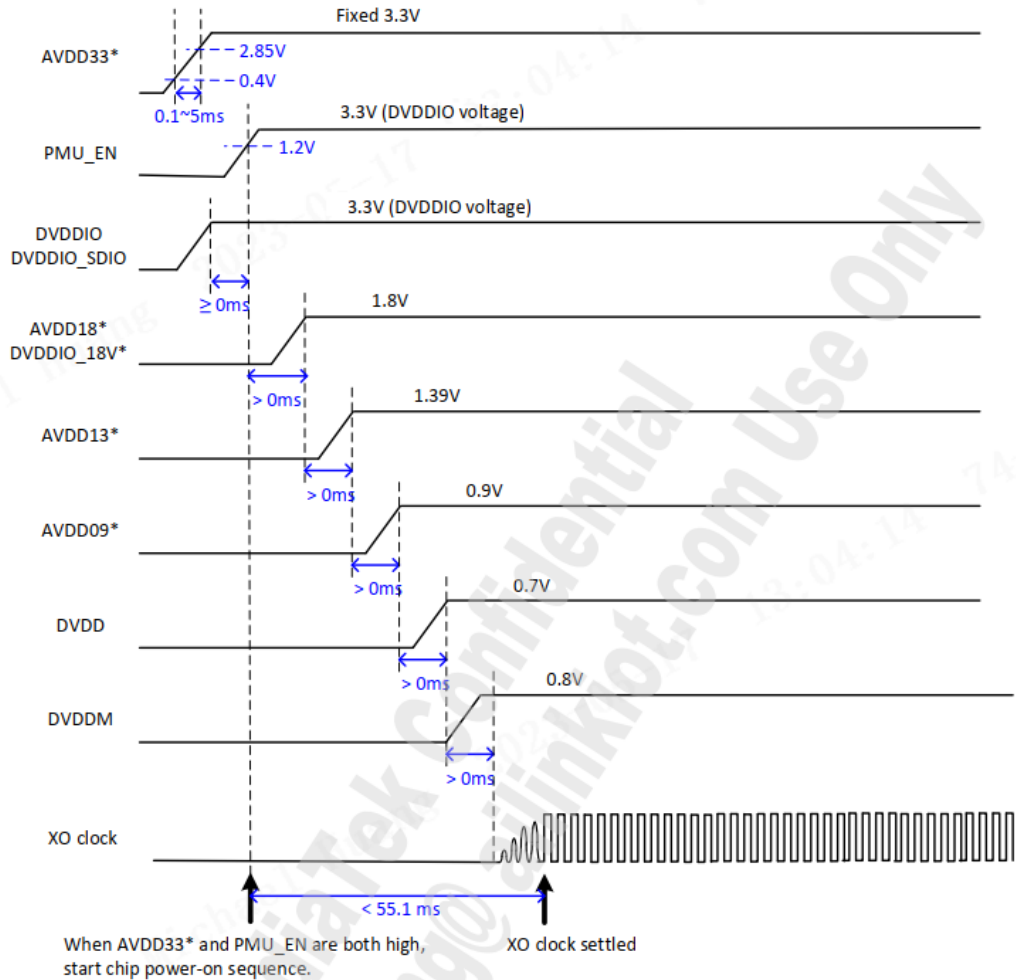
7.1 Recommend PCB Layout Decal



TOP VIEW

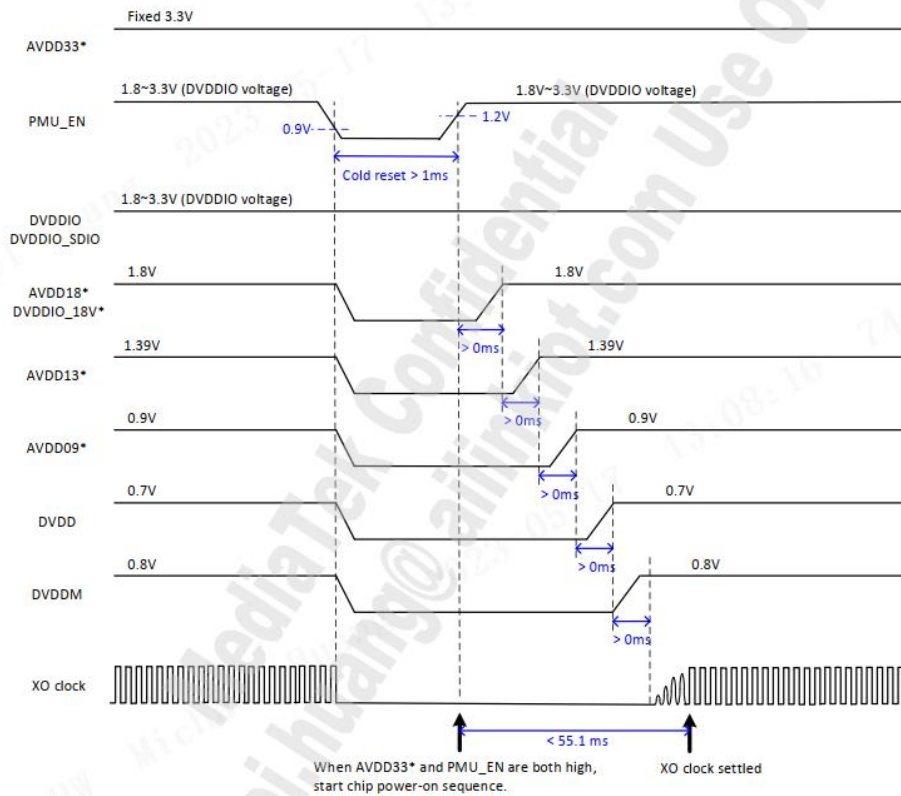
8 Timing Diagram

8.1 Chip power on sequence



注：RESET(PMU_EN)不早于 3.3V

8.2 Reset sequence



9 RF Connector Dimension

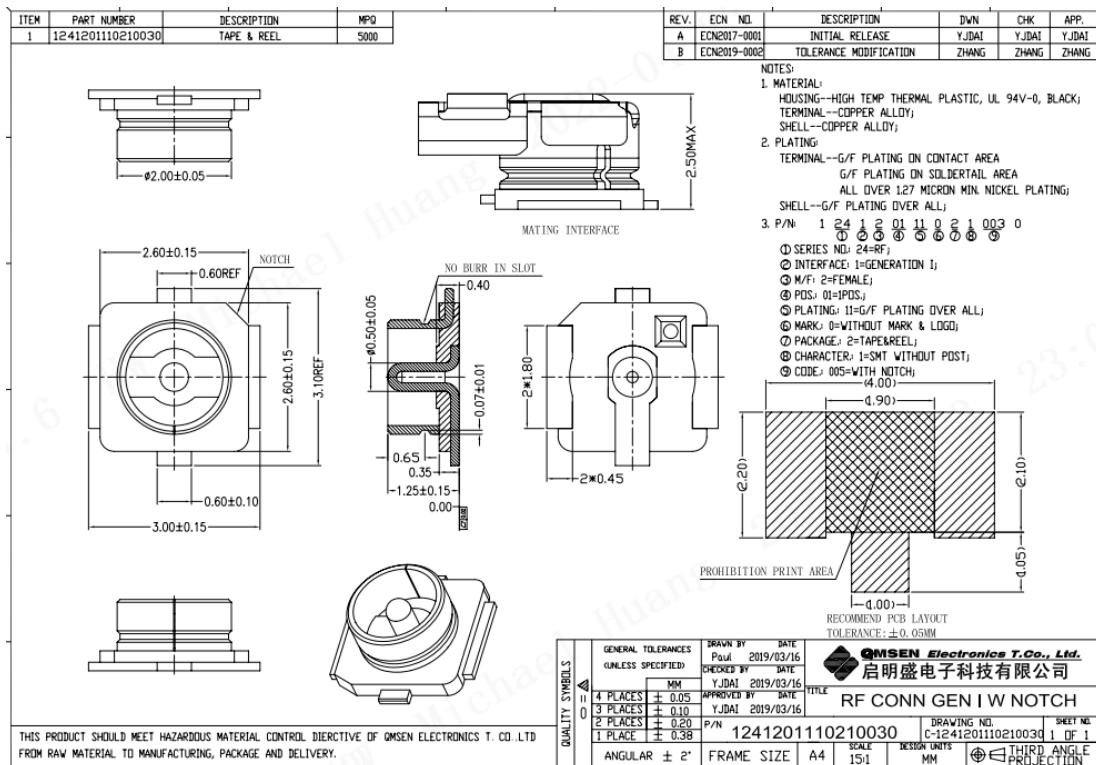
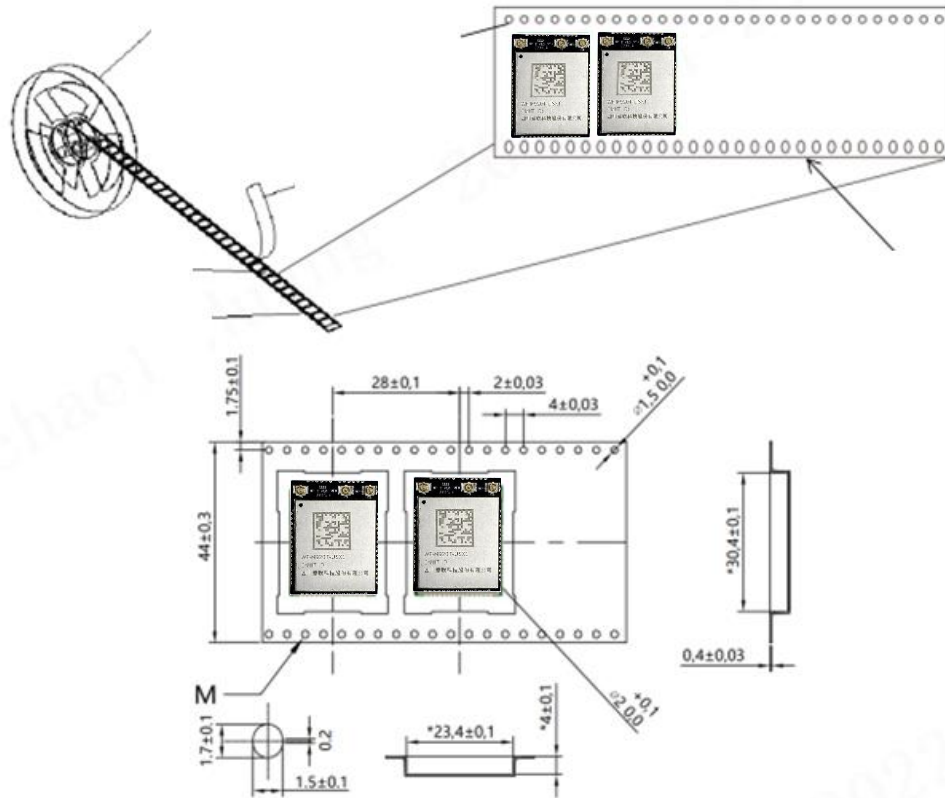


Figure 2: The dimensions of the connector

10 Package, Storage & Disposal

10.1 Package



10.2 Storage

All electronic components must be stored in a clean, well-ventilated place free of corrosive gas. Unless otherwise specified, the temperature and humidity of the storage place must meet below requirements:

- ✦ Temperature: -40~85°C;
- ✦ Humidity: 20%~75%;
- ✦ Humidity sensitivity grade: MSL 3
- ✦ Container Requirement: products shall be placed in a container well-functioning as an electrostatic shielding.

9.3 Disposal

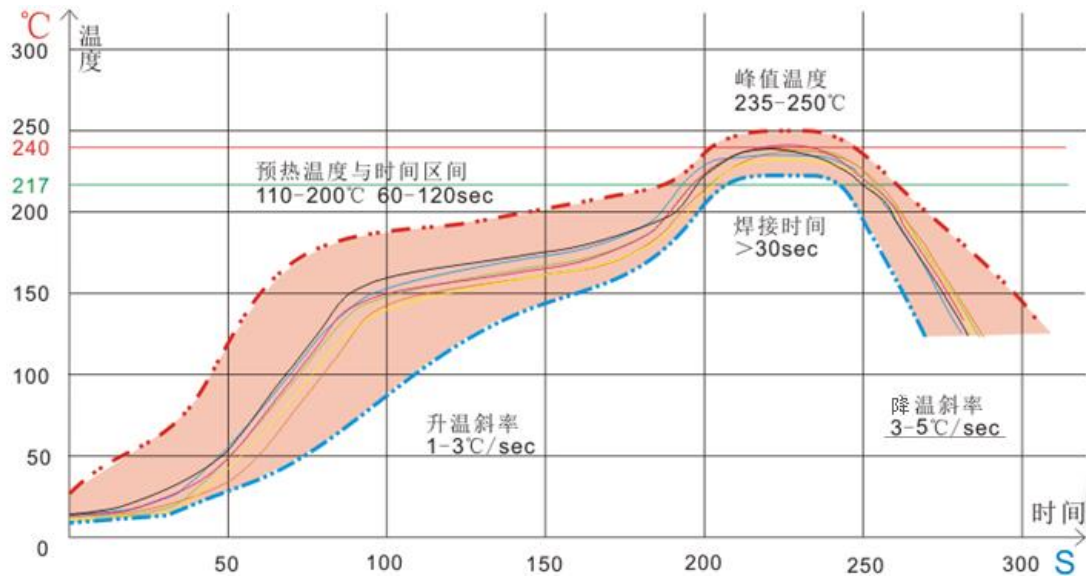
The waste disposal of this product and the package should comply with the applicable local/regional /state/ international regulations.

11 Appendix

Key Components List

N O.	Name	Model	Specification	Manufacturer
1	IC	MT7920TUN		MediaTek
2	PCB	JUI7.820.1332 series	4L 0.8mm	KX IQE Sunlord RJX
3	Crystal	3225 40M	3225 40M	Hosonic ECEC TKD

12 Reflow Standard Condition



Heating zone: temperature: < 150 °C, time: between 60 and 90 seconds, the slope is controlled between 1 ~ 3 °C / S.

Preheating constant temperature zone: temperature: 150 °C ~ 200 °C, time: between 60-120 seconds, slope between 0.3-0.8.

Reflow soldering area: peak temperature 235 °C ~ 250 °C (recommended peak temperature < 245 °C), time 30-70 seconds.

Cold area: temperature: 217 °C ~ 170 °C, slope between 3 ~ 5 °C / S.

The solder is lead-free solder in tin-silver copper alloys/Sn&Ag&Cu Lead-free solder (SAC305).

13 Certification Information:

This product is a radio transmitter module for restricted non-standalone operation.

The module bearing CMIIT ID:2022AP19235(M) approval does not mean that the final equipment in which the module is embedded or used complies with relevant radio management technical regulations or standards. The final equipment of the specific manufacturer is responsible for the technical compliance with the relative local or nationwide radio management technical regulations or standards.

FCC regulatory compliance statement

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.

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

This Module complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Labelling Instruction for Host Product Integrator

Please notice that if the FCC identification number is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following:

“Contains FCC ID: 2AOKI-WFM920TUSX1” any similar wording that expresses the same meaning may be used.

Installation Notice to Host Product Manufacturer

The OEM integrator is responsible for ensuring that the end-user has no manual instruction to remove or install module.

The module is limited to installation in mobile application, a separate approval is required for all other operating configurations, including portable configurations with respect to §2.1093 and difference antenna configurations.

Antenna Change Notice to Host manufacturer

If you desire to increase antenna gain and either change antenna type or use same antenna type certified, a Class II permissive change application is required to be filed by us, or you (host manufacturer) can take responsibility through the change in FCC ID (new application) procedure followed by a Class II permissive change application.

FCC other Parts, Part 15B Compliance Requirements for Host product manufacturer

This modular transmitter is only FCC authorized for the specific rule parts listed on our grant, host product manufacturer is responsible for compliance to any other FCC rules that apply to the host not covered by the modular transmitter grant of certification.

Host manufacturer in any case shall ensure host product which is installed and operating with the module is in compliant with Part 15B requirements.

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 a 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.

ISED Regulatory Compliance

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) This device may not cause interference. (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L' émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d' Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L' exploitation est autorisée aux deux conditions suivantes : (1) L' appareil ne doit pas produire de brouillage; (2) L' appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d' en compromettre le fonctionnement.

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. Cet équipement est conforme aux limites d'exposition aux radiations IC CNR-102 établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20cm entre le radiateur et votre corps.

Please notice that if the IC identification number is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following:

“Contains IC: 23460-WFM920TUSX1” any similar wording that expresses the same meaning may be used.

L' étiquette d' homologation d' un module d' Innovation, Sciences et Développement économique Canada devra être posée sur le produit hôte à un endroit bien en vue, en tout temps. En l' absence d' étiquette, le produit hôte doit porter une étiquette sur laquelle figure le numéro d' homologation du module d' Innovation, Sciences et Développement économique Canada, précédé

du mot « contient », ou d' une formulation similaire allant dans le même sens et qui va comme suit : Contient IC: 23460-WFM920TUSX1 est le numéro d' homologation du module.

- i. the device for operation in the band 5150 - 5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
- ii. for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit;
- iii. for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits as appropriate; and
- i. le dispositif utilisé dans la bande 5150-5250 MHz est réservé à une utilisation en intérieur afin de réduire le risque de brouillage préjudiciable aux systèmes mobiles par satellite dans le même canal;
- ii. pour les dispositifs à antenne (s) détachable (s), le gain d'antenne maximal autorisé pour les dispositifs dans les bandes 5250-5350 MHz et 5470-5725 MHz doit être tel que l'équipement soit toujours conforme à la norme e.i.r.p. limite;
- iii. pour les dispositifs à antenne (s) détachable (s), le gain d'antenne maximal autorisé pour les dispositifs de la bande 5725-5850 MHz doit être tel que l'équipement soit toujours conforme à la norme e.i.r.p. les limites, le cas échéant; et

The requirement for KDB 996369 D03:

1.1 List of applicable FCC rules

FCC Part 15.247, FCC Part 15.407.

1.2 Summarize the specific operational use conditions

EUT use PIFA antenna.

1.3 Limited module procedures

The module is a single module, so this requirement is not applicable to the product.

1.4. Trace antenna desig

Not support

1.5 RF exposure considerations

The host device can be used as mobile device.

1.6 Antennas

2.4G

PIFA antenna :3.66dBi max (External type)

5G

PIFA antenna :3.55dBi max (External type)

1.7 Label and compliance information

If this certified module is installed inside the host device, then the outside of the host must be labeled with "Contains FCC ID: 2AOKI-WFM920TUSX1"

1.8 Information on test modes and additional testing requirements

The host manufacturer can use the software of MT7961 QA to make the WIFI transmit continuously.

1.9. Additional testing, Part 15 Subpart B disclaimer

The module only complies with the FCC Part 15.247 and 15.407. If the module is installed in the host device, the host manufacturer is responsible for the compliance to any other FCC rules that apply to the host not covered by the modular transmitter grant of certification. For example, if the host manufacturer markets their product as being Part 15 Subpart B compliant (when it also contains unintentional-radiator digital circuitry), then the host manufacturer shall provide a notice stating that the final host product still requires Part 15 Subpart B compliance testing with the modular transmitter installed.

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