

E-LINTER Loquat-Module

Wi-Fi + BLE Communication Module Datasheet

V260826-R



Revision History

Date	Author	Version	Description
2025/08/18	Liu Jizhao	V250818R	Initial version
2026/5/20	Zhu Qiuju	V260520R	Updated 4.1 Part Number Coding Rule
2026/8/26	Jiang Rui	V260826R	Updated Chapter 3 Ordering Information; Updated Chapter 8 Specifications

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1. Introduction

The Loquat-Module (loquat-md, Model: ECM6-00) is an industrial-grade embedded Wi-Fi + BLE communication module developed and designed by E-LINTER. The module supports the standard IEEE 802.11 b/g/n protocol. Users can easily implement UART-to-Wi-Fi and Bluetooth data transmission with this module, adding Wi-Fi and Bluetooth functionality to existing devices.

The module supports Wi-Fi mesh networking and can form a mesh network with other Wi-Fi mesh-capable products of our company, thereby extending the coverage of the Wi-Fi network and eliminating dead zones.

The module's Bluetooth communication helps users easily perform Wi-Fi network configuration and local device maintenance, such as local parameter settings and local firmware upgrades. At the same time, Bluetooth communication SDKs for Android and iOS can also be provided to users, enabling convenient implementation of Bluetooth communication in their own apps.

2. Features

- Supports the standard 802.11 b/g/n protocol
- Supports BLE 5.0
- Supports Wi-Fi mesh networking
- Supports multiple encryption methods including WPA and WPA2
- Supports E-Touch function (including Android and iOS devices), and SDK can be provided
- Receive/transmit double buffering
- Supports remote upgrade (OTA)
- Wide operating temperature range: $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ / $-40^{\circ}\text{C} \sim 105^{\circ}\text{C}$

3. Ordering Information

Table 3-1 Ordering Information

Product Part Number	Description
ECM6-0019-1000-00	Wi-Fi + BLE, onboard PCB antenna, E-Link IoT, -40° C ~ +85° C
ECM6-0019-T000-00	Wi-Fi + BLE, onboard PCB antenna, TCP transparent transmission, -40° C ~ +85° C
ECM6-0019-T001-00	Wi-Fi + BLE, onboard PCB antenna, MQTT transparent transmission, -40° C ~ +85° C
ECM6-0019-1001-00	Wi-Fi + BLE, onboard PCB antenna, E-Link IoT, -40° C ~ +85° C
ECM6-001A-1000-00	Wi-Fi mesh + BLE, onboard PCB antenna, E-Link IoT, -40° C ~ +85° C
ECM6-001A-T000-00	Wi-Fi mesh + BLE, onboard PCB antenna, TCP transparent transmission

4. Coding Rule

4.1. Part Number Coding Rule

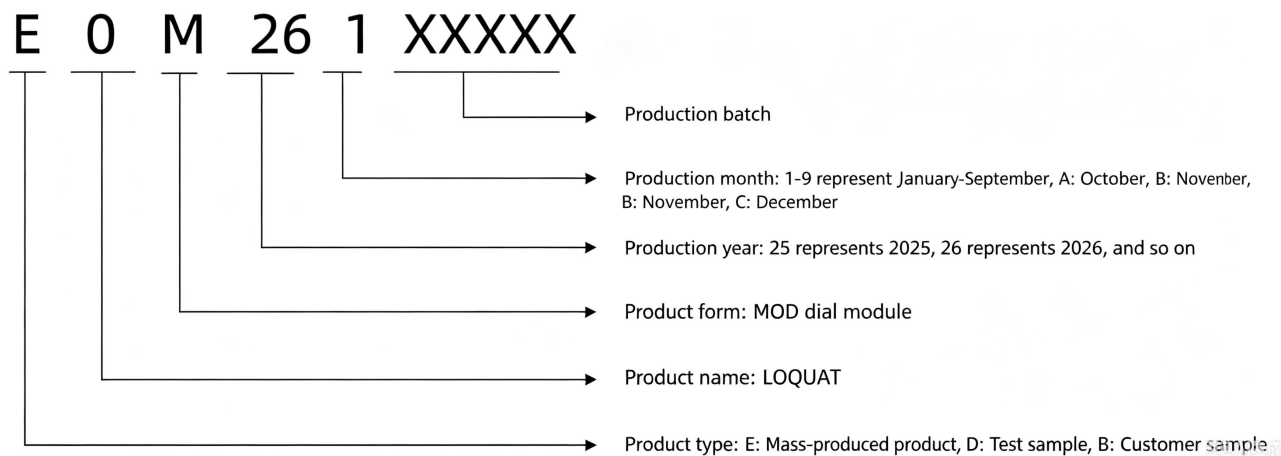


Figure 4-1 Part Number Coding

5. Pin and Dimensional Information

5.1. Pin Layout

The pin layout of the Loquat-Module (loquat md) communication module is shown in the figure below. The pin layout diagram shows the positions of the pins on the module. The Keepout Zone area is where the PCB antenna is located; this is a no-routing area on the baseboard. Modules with the third-generation IPEX antenna interface do not have this area.

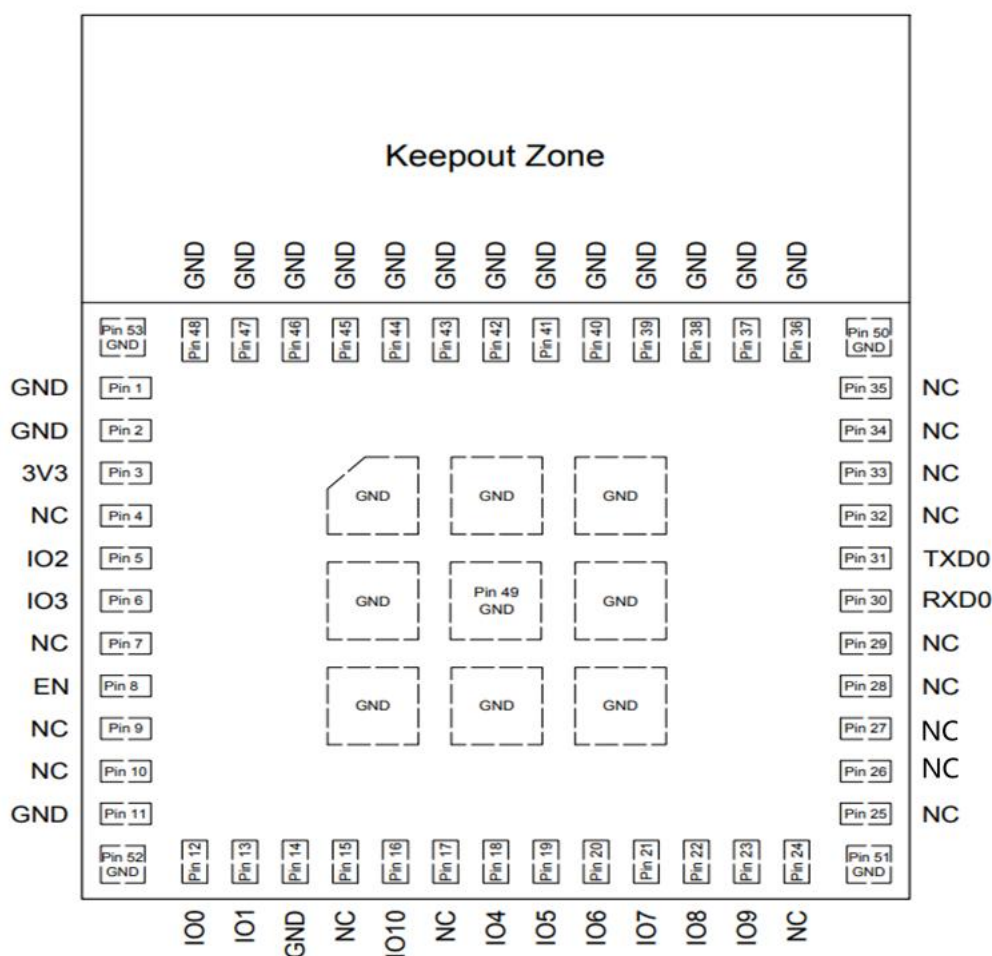


Figure 5-1 Pin Layout (Top View)

5.2. Pin Definition

The pin information of this communication module is as follows:

Table 5-1 Pin Description

Name	Pin	Function
3V3	3	Power Supply
EN	8	High level: chip enabled; Low level: chip disabled; Note: The EN pin must not be left floating.

I05	19	External communication UART TX
I06	20	External communication UART RX
I07	21	LED indicator pin
I08	22	4.7K resistor pull-up
I09	23	BOOT pin, default high level
GND	1, 2, 11, 14, 36-53	Ground
I010	16	Pull-down to ground
I03	6	LED indicator pin: device communication indicator; normally steady on, blinks during communication, lights up at high level
I07	21	LED indicator pin: cloud communication indicator; normally steady on, blinks during communication, lights up at high level
RXD0	30	Debug UART TX (can be used for debugging or wireless certification testing)
TXD0	31	Debug UART RX (can be used for debugging or wireless certification testing)
NC	4, 7, 9, 10, 15, 17, 24, 25, 28, 29, 32-35	Not connected (NC)

5.3. Dimensional Information

The dimensional parameters of this communication module are shown in Figure 5-3-1 and Figure 5-3-2, in mm.

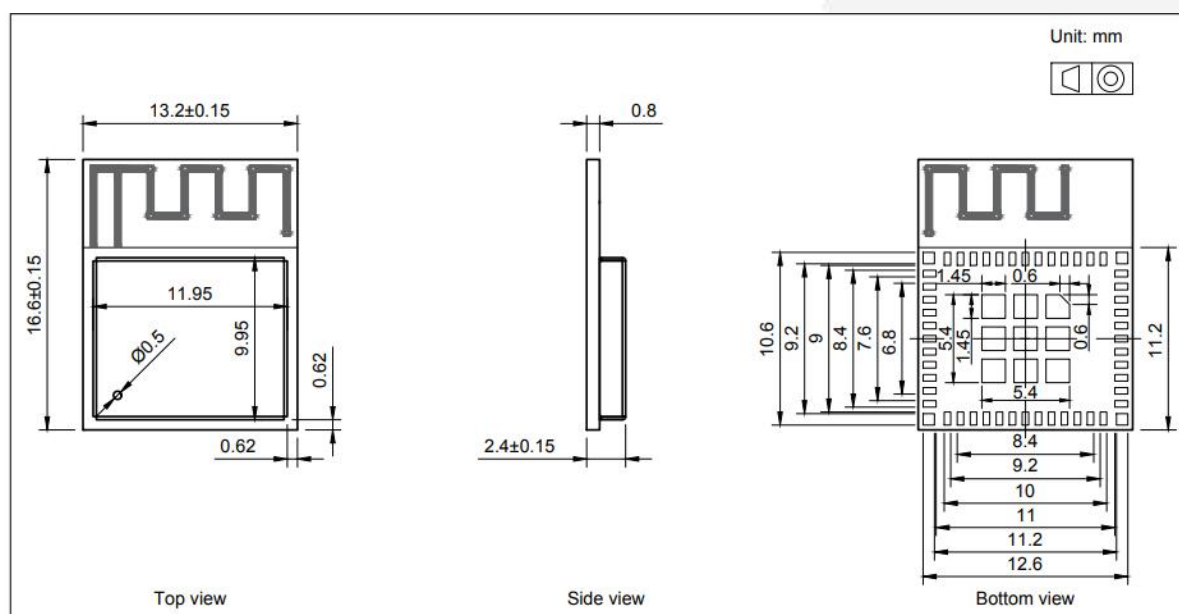


Figure 5-3-1 Dimensional Information-1 (Unit: mm)

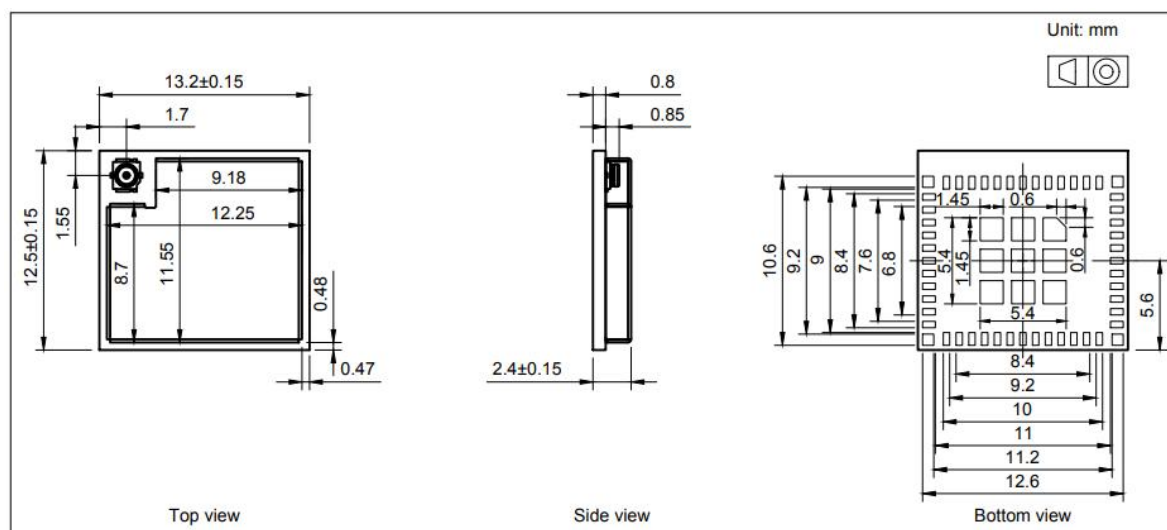


Figure 5-3-2 Dimensional Information-2 (Unit: mm)

6. Electrical Characteristics

6.1. Absolute Maximum Ratings

Please note during use that exceeding the absolute maximum ratings may cause permanent damage to the module. Prolonged exposure to absolute maximum ratings may affect the reliability of the module.

Table 6-1 Absolute Maximum Ratings

Symbol	Parameter	Min	Max	Unit
VDD33	Power pin voltage	- 0.3	3.6	V
T _{STORE}	Storage temperature	- 45	105	° C

6.2. Recommended Operating Conditions

To achieve optimal performance, it is recommended to operate the product under the recommended operating conditions, which are as follows:

Table 6-2 Recommended Operating Conditions

Symbol	Parameter	Min	Max	Unit
VDD33	Power pin voltage	3.0	3.6	V
I _{VDD}	Supply current from external power supply	0.5	—	A
T _A	Operating temperature	- 40	85	° C
		-40	105	° C
Humidity	Humidity	—	85	%RH

6.3. DC Electrical Characteristics

Table 6-3 DC Electrical Characteristics (3.3 V, 25 ° C)

Symbol	Parameter	Min	Max	Unit
C _{IN}	Pin capacitance	—	—	pF
V _{IH}	High-level input voltage	$0.75 \times VDD^1$	$VDD + 0.3$	V
V _{IL}	Low-level input voltage	- 0.3	$0.25 \times VDD$	V
I _{IH}	High-level input current	—	50	nA
I _{IL}	Low-level input current	—	50	nA
V _{OH} ²	High-level output voltage	$0.8 \times VDD$	—	V
V _{OL} ³	Low-level output voltage	—	$0.1 \times VDD$	V
I _{OH}	High-level source current (VDD1 = 3.3 V, VOH >= 2.64 V, PAD_DRIVER = 3)	—	—	mA

1 VDD 是 I/O 的供电电源

2 VOH 为负载是高阻条件下的测试值。

3 VOL 为负载是高阻条件下的测试值。

I_{OL}	Low-level sink current ($V_{DD1} = 3.3\text{ V}$, $V_{OL} = 0.495\text{ V}$, $PAD_DRIVER = 3$)	—	—	mA
R_{PU}	Pull-up resistor	—	—	k Ω
R_{PD}	Pull-down resistor	—	—	k Ω
V_{IH_nRST}	Chip reset release voltage	$0.75 \times V_{DD}$	$V_{DD} + 0.3$	V
V_{IL_nRST}	Chip reset voltage	-0.3	$0.25 \times V_{DD}$	V

6.4. Timing Requirements

After the module is powered on, its power supply needs some time to stabilize. Then it is used for power-on, and immediately after, the enable pin (EN) needs to be pulled high to activate the module. For information about EN and the power-on and enable timing, please refer to Figure 6-4 and Table 6-4:

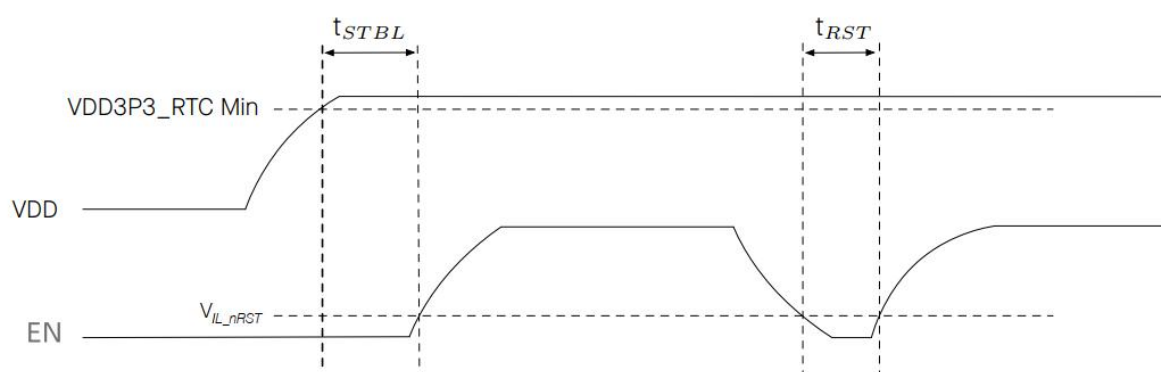


Figure 6-4 Power-on and Reset Timing Parameters

Table 6-4 Power-on and Reset Timing Parameter Description

Parameter	Description	Min (μs)
t_{STBL}	Time required for the 3.3V system power supply to stabilize before pulling the EN pin high to activate the module	50
t_{RST}	Time for the module to reset when the EN level falls below V_{IL_Nrst} (specific value refers to Table 6-3)	50

6.5. Wi-Fi Features

Table 6-5-1 Wi-Fi RF Standard

Parameter	Condition	Unit
Operating frequency range	--	2412 - 2484 MHz
Wi-Fi protocol	--	IEEE 802.11 b/g/n
Data rate	20 MHz	11b: 1, 2, 5.5 and 11 Mbps 11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 11n: MCS0 - 7, 72.2Mbps(Max)
	40 MHz	11n: MCS0 - 7, 150Mbps(Max)
Antenna type	--	Built-in antenna

Table 6-5-2 Wi-Fi Transmitter Characteristics

Parameter	Condition	Min	Typical	Max	Unit
Transmit power	802.11b, 1Mbps	--	20.5	--	dBm
	802.11b, 11Mbps	--	20.5	--	dBm
	802.11g, 6Mbps	--	20.0	--	dBm
	802.11g, 54Mbps	--	18.0	--	dBm
	802.11n, HT20, MCS0	--	19.0	--	dBm
	802.11n, HT20, MCS7	--	17.5	--	dBm
	802.11n, HT40, MCS0	--	18.5	--	dBm
	802.11n, HT40, MCS7	--	17.0	--	dBm

Table 6-5-3 Wi-Fi Receiver Characteristics

Parameter	Condition	Min	Typical	Max	Unit
Receive sensitivity	802.11b, 1Mbps	--	-98.0	--	dBm
	802.11b, 11 Mbps	--	-88.6	--	dBm
	802.11g, 6 Mbps	--	-92.8	--	dBm
	802.11g, 54 Mbps	--	-76.2	--	dBm
	802.11n, HT20, MCS0	--	-92.6	--	dBm
	802.11n, HT20, MCS7	--	-74.4	--	dBm
	802.11n, HT40, MCS0	--	-90.0	--	dBm
	802.11n, HT40, MCS7	--	-71.2	--	dBm

6.6. Bluetooth Low Energy (BLE) Features

Table 6-6-1 Bluetooth Low Energy Transmitter Characteristics

Parameter	Condition	Min	Typical	Max	Unit
RF transmit power	--	--	0	--	dBm
Gain control step	--	--	3	--	dBm
RF power control range	--	-27	--	18	dBm

7. Reference Design

7.1. Schematic Design

The reference design of this product is shown in the figure below. J1 and J2 are NC by default and are only used for debugging, problem analysis, and wireless certification during the development phase. J1 and J2 may also be omitted, and Pin 23, Pin 30, and Pin 31 can be routed out separately as test points; be sure not to completely remove this function.

Application Scenario 1: External MCU reset, where the MCU's IO port controls the EN pin to reset the module. This solution is suitable for special industries such as photovoltaics, where unstable power supply causes repeated rapid power on/off, leading to non-compliant module power-on timing, thus requiring an external MCU reset.

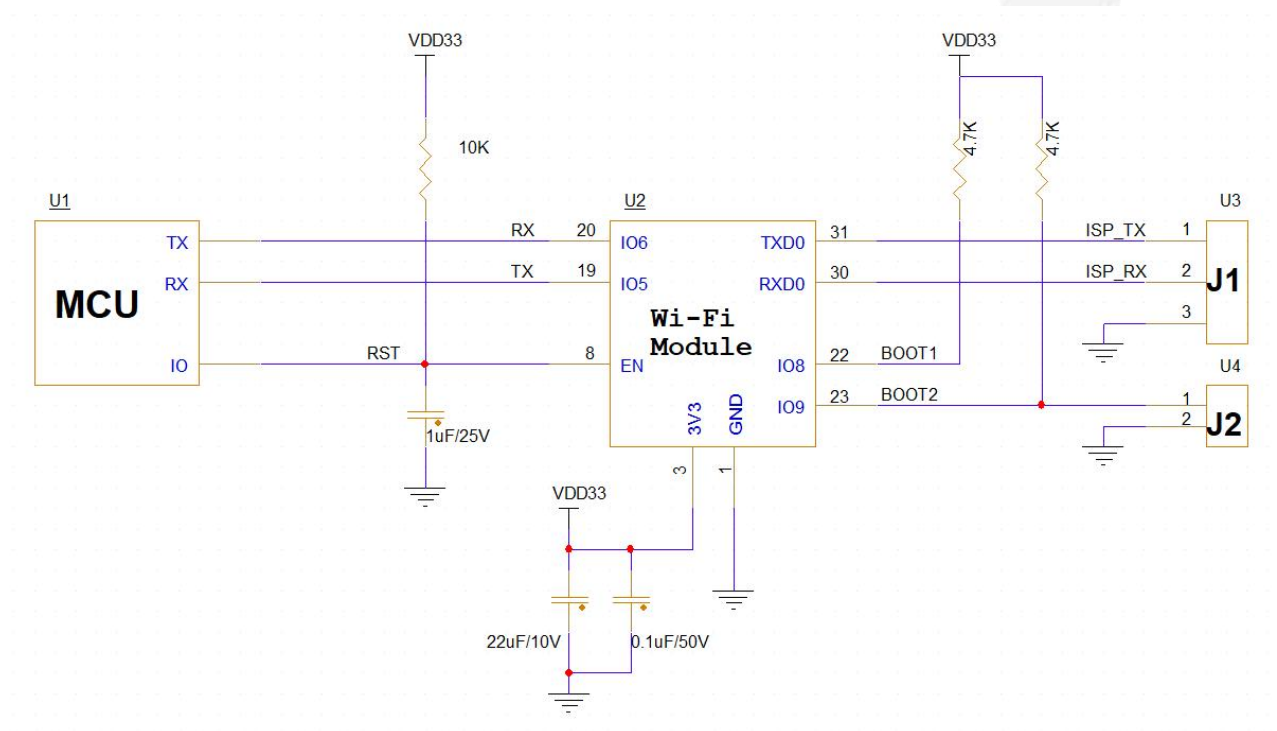


Figure 7-1-1 Reference Design

Notes: For some user devices, the MCU upgrade process is: Wi-Fi Module downloads the upgrade file -> sends the upgrade start command to the MCU -> MCU resets and jumps to Bootloader -> Wi-Fi module is passively reset. After the Wi-Fi module resets, information is cleared, causing the upgrade to fail.

Recommendations are as follows:

1. After the MCU performs a reset and restart, do not immediately trigger an active reset of the Wi-Fi Module. If it cannot be avoided, add an RC circuit at the EN pin to filter the reset signal.

2. Communication timeout reset: The MCU adds communication timeout judgment, e.g., if no communication message from the Wi-Fi Module is received for more than 1 minute, then attempt IO control to reset and restart the Wi-Fi Module.

Application Scenario 2: RC reset circuit. This reference circuit is suitable for scenarios with stable power supply, i.e., no repeated rapid power on/off, and only the RC reset circuit is needed to meet the module's power-on timing requirements.

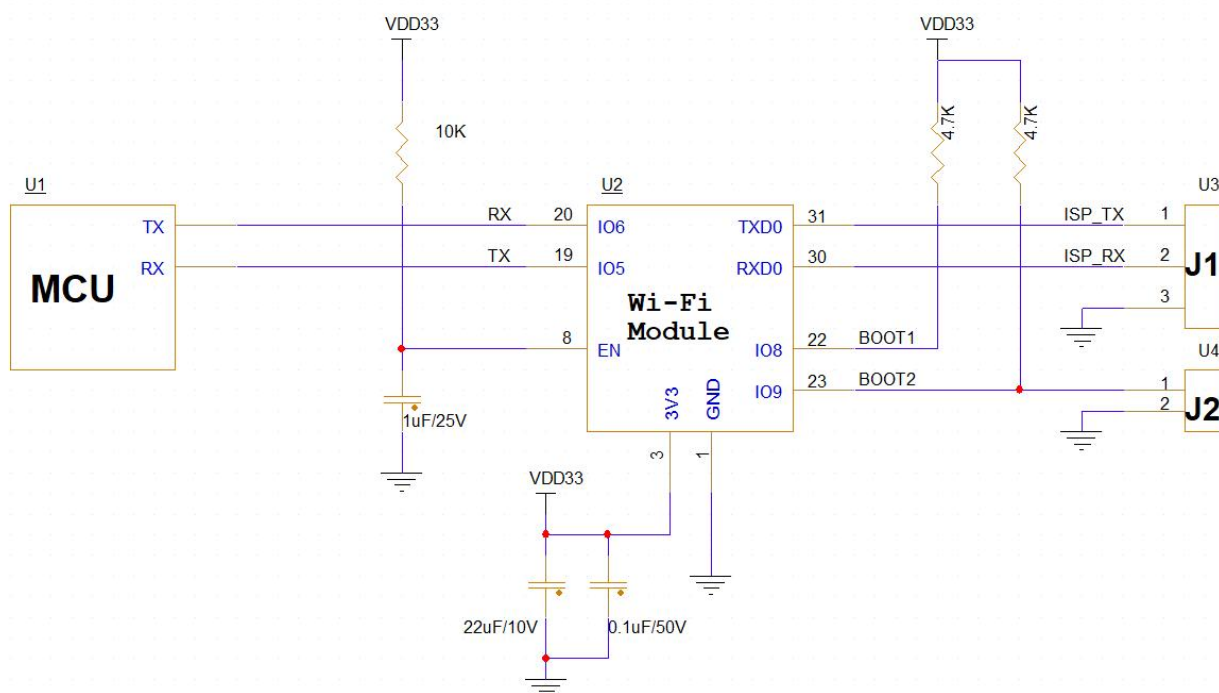


Figure 7-1-2 Reference Design

7.2. Layout Design

Using a PCB antenna, the layout should minimize the impact of the baseboard on the module's PCB antenna performance. It is recommended to place the module as close to the edge of the baseboard as possible. If conditions permit, the PCB antenna area should preferably extend beyond the baseboard outline, and the antenna feed point should be as close to the board edge as possible.

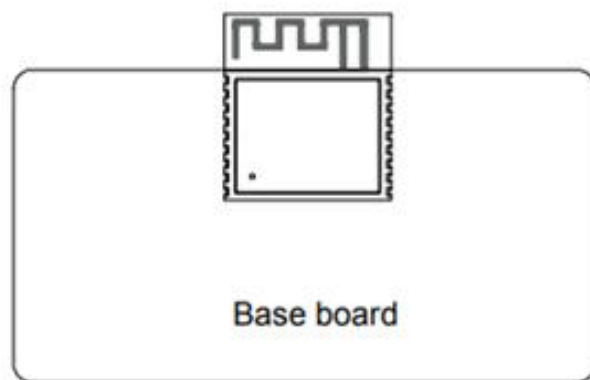


Figure 7-2-1 Module Position on Baseboard Diagram

If the above method is limited and cannot be implemented, the following method can also be used: keep the module's PCB antenna area and the extended area of at least 15 mm clear (strictly no copper pour, routing, or component placement), as shown in Figure 7-2-2:

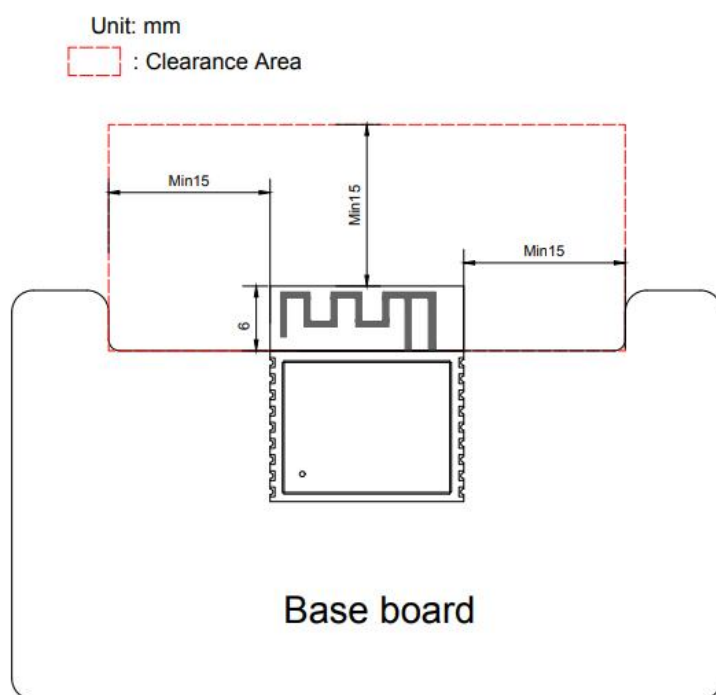


Figure 7-2-2 Module Antenna Area Keep-out Diagram

7.3. Soldering Temperature

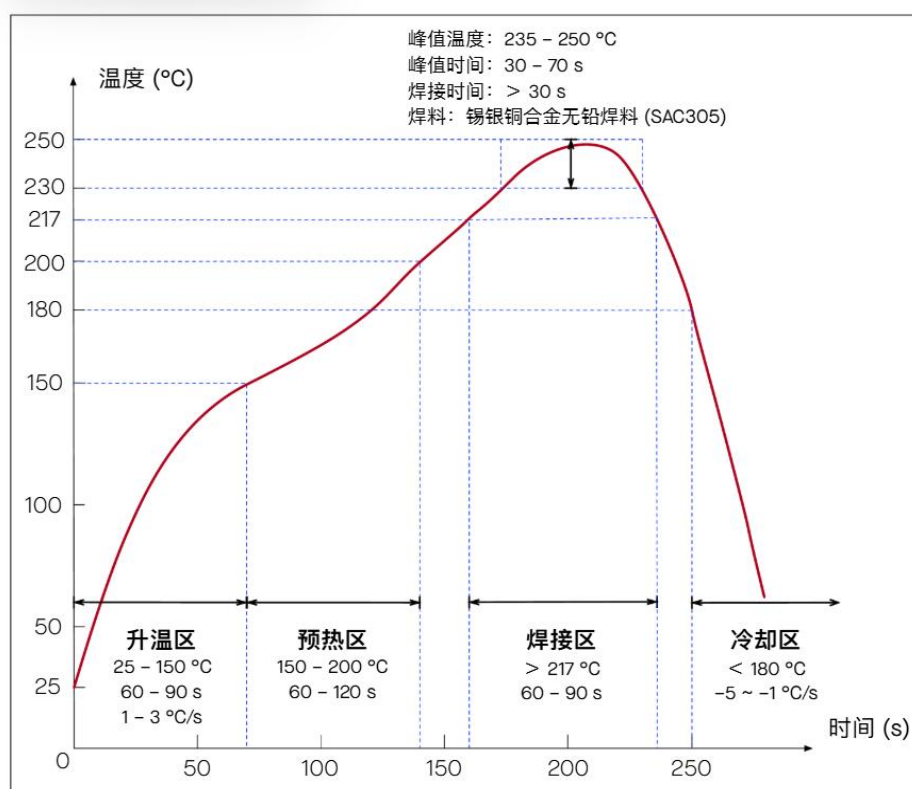


Figure 7-3-1 Soldering Temperature Profile

8. Specifications

Table 8-1 Specifications

Part Number	ECM6-0019-1000-00	ECM6-0019-T000-00	ECM6-0019-T001-00	ECM6-0019-1001-00	ECM6-001A-1000-00	ECM6-001A-T000-00
Electrical Parameters						
Supply Voltage	DC 3.0 - 3.6V; Typ. 3.3V					
Current Consumption	Min. 0.2A; Max. 1A@3.3V					
Networking Parameters						
Networking Protocol	\					
Number of Networked Nodes	\					
Number of Adjacent Node Connections	\					
Networking Hierarchy Levels	\					
Wi-Fi Parameters						
Operating Frequency	2412 ~ 2484 MHz					
Network Mode	802.11b/g/n 2.4GHZ					
Security Mode	WPA/WPA2/WPA2-Enterprise					

Protocol Parameters						
Uplink Protocol	E-Link IoT	TCP Transparent Transmission	MQTT Transparent Transmission	E-Link IoT	E-Link IoT	TCP Transparent Transmission
Bluetooth Parameters						
Communication Rate	125Kbps、500Kbps、1Mbps、2Mbps					
UART Parameters						
Level	TTL					
Communication Parameters	9600 bps 8/N/1 (default)					
Mechanical Parameters						
Dimensions	13.2 x 16.6 x 2.4 mm					
Weight	Approx. 0.7 g					
Environmental Parameters						
Operating Temperature Range	- 40 ~ 85° C					
Storage Temperature Range	-45 ~ 105° C					

9. Packaging Information

9.1. Packaging Information

The outgoing packaging uses tape-and-reel packaging. Each reel contains: 650 modules, and the reel is packaged in a vacuum anti-static bag, as shown in Figure 9-1-1:



Figure 9-1-1 Anti-static Bag Packaging

Each reel of tape is enclosed in a packaging carton, as shown in Figure 9-1-2:



Figure 9-1-2 Inner Packaging Box

Each carton contains 5 reels, totaling 3250 modules, with a weight of approximately 7.5 kg, and outer carton dimensions of 390.0 x 390.0 x 370.0 mm, as shown in Figure 9-1-3 below:

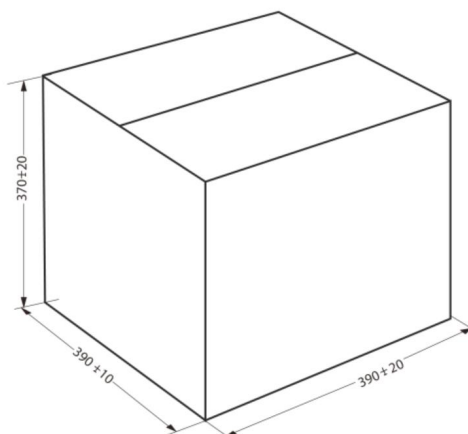


Figure 9-1-3 Outer Carton Dimensions

9.2. Outer Carton Label

The outermost packaging carton of the product has an outer carton label. The label information includes: customer name, order number, product name, customer part number, product part number, quantity per carton, carton number, and production date. In the carton number, the denominator indicates the total number of cartons, and the numerator indicates the current carton number; for example, 2/5 means a total of 5 cartons with this being the 2nd carton. The label content is subject to the actual product; the following is for reference of the format only, as shown in Figure 9-2:



The diagram shows a rectangular label with the following fields and annotations:

- E-LINTER** 成都易联智通信息技术有限公司 (E-LINTER Chengdu E-Link Intelligent Communication Technology Co., Ltd.)
- 客户名称: [Redacted] 有限公司 (Customer Name: [Redacted] Co., Ltd.) - 客户公司名称 (Customer Company Name)
- 订单编号: PO [Redacted] 121 (Order Number: PO [Redacted] 121) - 客户订单编号 (Customer Order Number)
- 产品名称: [Redacted] Stick (Product Name: [Redacted] Stick) - 产品名称 (Product Name)
- 客户料号: 30221700000028 (Customer Part Number: 30221700000028) - 客户产品料号 (Customer Product Part Number)
- 产品料号: [Redacted] (Product Part Number: [Redacted]) - 易联产品料号 (E-Link Product Part Number)
- 箱内总数 (Total in Box) - 箱内数量: 4 (Quantity in Box: 4)
- 箱数: 2/2 (Number of Boxes: 2/2) - 箱号 / 总箱数 (Box Number / Total Number of Boxes)
- 生产日期 (Production Date): 2022/11/25 (Production Date: 2022/11/25) - 备注: (Remarks:)

At the bottom of the label are five icons: a 'Y' in a square, a triangle in a square, an umbrella in a square, a recycling symbol, and a crossed-out square.

Figure 9-2 Outer Carton Label Diagram

10. CE Warning

Declaration of conformity

This product complies with the radio interference requirements of the European community. Hereby, Chengdu E-LINTER Information Technology Co., Ltd. declares that the product is in compliance with the essential requirements and other relevant provisions of RE Directive 2014/53/EU. You can find the Declaration of Conformity on www.e-linter.com.

RF frequency:

2.4G WIFI: 2412 MHz to 2472 MHz

BLE: 2402 MHz to 2480 MHz

RF power:

2.4G WIFI: 17.88 dBm

BLE: 5.67 dBm

Manufacturer Name: Chengdu E-LINTER Information Technology Co., Ltd.

Address: No. 505, Building 6, Zone D, Tianfu Software Park, No. 599, Century City South Road, CDHT, Chengdu, Sichuan, China

Product Name: Wi-Fi + BLE Module

Trademark:  E-LINTER
connection creates value

Model: ECM6-00, ECM8-00, ECM8-04

Importer Information: XXXXXX

11. FCC Warning

FCC Statement

1、 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. (2) This device must accept any interference received, including interference that may cause undesired operation.

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

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.

The device has been evaluated to meet general RF exposure requirements. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

The Module is designed to comply with the FCC statement. FCC ID is 2BAGJ-ECM6-00. The host system using the Module should have a label indicating it contains the modular's FCC ID is 2BAGJ-ECM6-00. This radio module must not installed to co-locate and operating simultaneously with other radios in host system additional testing and equipment authorization may be required to operating simultaneously with other radio. The Module and its antenna must not be co-located or operating in conjunction with any other transmitter or antenna within a host device.

The modular must be installed in the host that is assigned by Company name: Chengdu E-LINTER Information Technology Co., Ltd., Model no.: ECM6-00, ECM8-00, ECM8-04. If other host types used would need further evaluation and possible C2PC if they are not significantly similar to the one tested. The Module is designed for a compact PCB design. It should be installed and operated with host or other minimum distance of 20 centimeters between the radiator and your body." To comply with FCC regulations limiting both maximum RF output power and human exposure to RF radiation, the maximum antenna gain including cable loss in a mobile-only exposure condition must not exceed 3.75dBi in 2.4G band. The module uses PCB antenna, this antenna is sold with the module.

Notice to OEM integrator

The end user manual shall include all required regulatory information/warning as shown in this manual. The OEM integrator is responsible for testing their end product for any additional compliance requirements required with this module installed. If the final product contains circuits of other FCC PART 15 Subparts, the final host product still requires Part 15 Subpart B compliance testing with the modular transmitter installed. The intended use is generally not for the general public, it is generally for industry/commercial use. The connector is within the transmitter enclosure and can only be accessed by disassembly of the transmitter that is not normally required, the user has no access to the connector. Installation must be controlled. Installation requires special training.

This device complies with Part 15 of the FCC Rules.

This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

2.2

This module has been assessed against the following FCC rule parts: CFR 47 FCC Part 15 C (15.247. DTS). It is applicable to the modular transmitter.

2.3

This radio transmitter Module has been approved by Federal Communications Commission to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

The concrete contents to check are the following three points.

- 1) Maximum antenna gains are shown in item 2.7 below.
- 2) Should be installed so that the end user cannot modify the antenna
- 3) Feed line should be designed in 50ohm

Fine-tuning of return loss etc. can be performed using a matching network.

The antenna shall not be accessible for modification or change by the end user.

2.4

The module complies with FCC Part 15.247 and apply for Single module approval.

2.5

Trace antenna designs: applicable.

Any deviation(s) from the defined parameters of the antenna trace, as described by the instructions, require that the host product manufacturer must notify the module grantee that they wish to change the antenna trace design. in this case, a Class II permissive change application is required to be filed by the grantee, or the host manufacturer can take responsibility through the change in FCC ID (new application) procedure followed by a Class II permissive change application.

The device must be professionally installed.

The intended use is generally not for the general public.

It is generally for industry/commercial use.

The connector is within the transmitter enclosure and can only be accessed by disassembly of the transmitter that is not normally required.

The user has no access to the connector.

Installation must be controlled.

Installation requires special training.

2.6

This equipment 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 & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

2.7

The following antennas have been certified for use with this module.

Only antennas of the same type with equal or lower gain may also be used with this module.

Other types of antennas and/or higher gain antennas may require the additional authorization for operation. The installer should use unique antenna connector and Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device. The manufacturer of module will inform installer to meet with the FCC part 15.203 in the warning part.

Antenna Specification list below:

2.4G WIFI / BLE:

Antenna type: PCB antenna

The max antenna gain (in dBi): 3.75 dBi

2.8

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 "Contains FCC ID: 2BAGJ-ECM6-00"; any similar wording that expresses the same meaning may be used.

2.9

Testing of the host product with all the transmitters installed - referred to as the composite investigation test - is recommended, to verify that the host product meets all the applicable FCC rules. The radio spectrum is to be investigated with all the transmitters in the final host product functioning to determine that no emissions exceed the highest limit permitted for any one individual transmitter as required by Section 2.947(f). The host manufacturer is responsible to ensure that when their product operates as intended it does not have any emissions present that are out of compliance that were not present when the transmitters were tested individually.

If the modular transmitter has been fully tested by the module grantee on the required number of channels, modulation types, and modes, it should not be necessary for the host installer to re-test all the available transmitter modes or settings. It is recommended that the host product manufacturer, installing the modular transmitter, perform some investigative measurements to confirm that the resulting composite system does not exceed the spurious emissions limits or band edge limits (e.g., where a different antenna may be causing additional emissions).

The testing should check for emissions that may occur due to the intermixing of emissions with the other transmitters, digital circuitry, or due to physical properties of the host product (enclosure). This investigation is especially important when integrating multiple modular transmitters where the certification is based on testing each of them in a stand-alone configuration.

2.10

Any company of the host device which install this modular should perform the test of radiated & conducted emission and spurious emission etc. according to FCC Part 15C: 15.247, only if the test result comply with FCC part 15C: 15.247 requirement. Then the host can be sold legally.

The 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, If the grantee markets their product as being Part 15 Subpart B compliant (when it also contains unintentional-radiator digital circuitry), then the grantee shall provide a notice stating that the final host product still requires Part 15 Subpart B compliance testing with the modular transmitter installed.