

## Overview

The UHF 8-port RFID module SIMX300 with high-performance, designed by SILION R&D team. It based on IMPINJ New Generation RF chip E710/E510/E310.

Output power can be set from 5dBm to 33dBm (30dBm). Tag reading distance is more than 12m (depending on antenna gain and tag size), And has excellent multi-label inventory performance.

SIMX300 module has stable and reliable performance, it adopts advanced multi-tag recognition algorithm. Tags can be quickly identified whether moving or stationary.

SIMX300 has superior anti-interference design and carrier cancellation function, can work stably in various environments.

SIMX300 has a variety of configuration modes, can be widely used in various applications such as warehousing, logistics, production lines, and patrol.

## Application

- Filing cabinet
- Tool cabinet

## Features

- ARMv7-M architecture 32bit Cortex-M4 CPU, integrated FPU, MPU, DSP, the highest work main frequency is 200MHz, 512KByte Flash
- Support UHF EPC Class1 Gen2/ISO 18000-6C
- Provide Windows, Linux and Android SDK, and API based on C, C#/.NET, JAVA
- Support inventory of temperature tags, the output parameters include the RSSI and phase value of the tag return signal
- 8-port antenna polling output, the shortest polling time is less than 25mS
- Domestic version with max power output of 33dBm
- SIMX300 has excellent anti-collision algorithm and high sensitivity. The fastest speed of inventory tags is greater than 1000tag/s

Model	sensitivity @PER 10%	The speed of inventory tag @96 bit EPC)
SIM7300	-86dbm	>1000
SIM5300	-79dbm	>600
SIM3300	-72dbm	>350

- Multiple inventory modes suitable for most applications.
- The UART serial communication baud rate can be set from 9600bp to 921600bps

- 2 input 2 output GPIO
- Onboard temperature real-time monitoring, combined with aluminum shell heat dissipation, ensures that the module can work stably for long time.
- Size: 93.5mm\*80.3mm\*8mm
- Antenna connection status monitoring, real-time protection of the receiver.
- Obtained SRRC, CE, FCC and other certifications
- Comply with ROHS requirements

## Absolute Max Ratings Value

Parameter	Sign	Mini	Typical	Max	Unit
Input voltage	VCC	-0.3		6	V
Enable voltage	VEN	-0.3		6	V
Reset (NRST) GPI(IN1 IN2) input low voltage	VIL			0.6	V
Reset (NRST) GPI(IN1 IN2) input high voltage	VIH	2.7			V
GPO (OUT1 OUT2) output current	IOH			15	mA
Module output current	AVCC			20	mA
ESD protection voltage <sup>1</sup>	VESD	-6		6	kV
Antenna port (ANT) standing wave ratio <sup>2</sup>	VSWR			8	/
Operating temperature <sup>3</sup>	TC	-30		75	°C
Storage temperature	TS	-55		100	°C



### ESD Precautions

Proper precautions must be followed when transporting, packaging and testing the equipment.

1. Antenna port test conditions IEC61000-4-2 level 1, contact discharge; other interfaces are HBM model, contact discharge.
2. The maximum allowable standing wave ratio to prevent damage to the power amplifier chip. To ensure performance, it is recommended that the antenna standing wave ratio be less than 2.0.
3. Ambient temperature. The max temperature limit is related to the module heat dissipation conditions.

## General Operating Conditions

Parameter	Sign	Mini	Typical	Max	Unit
Input voltage	VCC	4.5		5.5	V
Disabling voltage	VEN			0.4	V
Enable voltage		1.5			V
Reset (NRST) GPI(IN1 IN2) input low voltage	VIL			0.3	V
Reset (NRST) GPI(IN1 IN2) input high voltage	VIH	3			V
GPO(OUT1 OUT2) output current	IOH		10		mA
Module output current	AVCC		10		mA
Antenna port (ANT) standing wave ratio <sup>2</sup>	VSWR			2.5	/
Operating humidity (non-condensing)	RH	5		95	%
Operating temperature	TC	-25		65	°C
Storage temperature	TS	-40		85	°C

## General Electrical Parameters

Parameters		Condition	Mini	Typical	Max	Unit
Frequency	Range <sup>1</sup>		860		960	MHz
	Step value <sup>2</sup>			250/500		KHz
	Deviation	@25℃	-10		10	ppm
Output	Output power		5		33	dBm
	Power step			1		dB
	Output power accuracy	5dBm~33dBm	-1		1	dB
	Output power flatness	5dBm~33dBm	-1		1	dB
	Adjacent channel leakage ratio*	1 <sup>st</sup> adjacent channel		-45		dB
		2 <sup>nd</sup> adjacent channel		-65		dB
	20dB occupied bandwidth*	RF_MODE 7		110		KHz
		RF_MODE 11		215		KHz
	Emission spectrum template* <sup>3</sup>	margin	2			dB
	Spurious Emissions (Conducted) <sup>4</sup>	2 <sup>nd</sup> harmonic		-55		dBm
		3 <sup>rd</sup> harmonic		-38		dBm
Measure	Module temperature accuracy	-25℃~115℃ <sup>5</sup>	-4		4	℃
	Tag RSSI test accuracy	@-60dBm	-3		3	dB
	Tag PHASE test accuracy	@-60dBm	-5		5	degrees
	Load return loss test accuracy	RL>18dB Connect the attenuator	-4		4	dB
UART	Default baud rate	Data format: 8N1		115200		bps
	Configurable baud rate		9600		921600	bps
Consumption	Power down mode			0.00025		W

	low consumption standby mode			0.1		W
	Normal standby mode			0.8		W
	Operating mode <sup>6</sup>	North America、Europe@30dBm		6.5		W
		China@33dBm		8.25		W

1. Select the frequency band by frequency range, can't support multiple frequency areas at the same time.
  2. The required frequency step can be configured according to the frequency range.
  3. Refer to 《ETSI EN 302 208》 4.3.5 Transmitter spectrum masks.
  4. Test under full frequency range conditions.
  5. When temperature exceeds 90℃, the module will forcefully stop inventory, then need to manually resend the command to start inventory.
  6. The operating power consumption of the module is determined based on the matching of the load antenna.
- Mark\* Indicates that the inventory mode RF\_MODE 7 is used during testing and the spectrum analyzer is set to MAXHOLD.

## Air Interface Mode Parameters and Performance

RF_MODE ID	Forward Link Modulation	Tari (us)	BLF (KHz)	Reverse Link Modulation	Receive Sensitivity Minimum <sup>1</sup> (dBm)			Read Rate <sup>2</sup> (tag s/s)
					E710	E510	E310	
103	DSB-ASK	6.25	640	FM0	-68	N/A <sup>3</sup>	N/A	>1000
11	PR-ASK	7.5	640	FM0	-68	N/A	N/A	>1000
120	DSB-ASK	6.25	640	Miller M=2	-70	-69.8	N/A	>600
1	PR-ASK	7.5	640	Miller M=2	-71	-68.5	N/A	>600
345	PR-ASK	7.5	640	Miller M=4	-78	-73.5	N/A	>450
15	PR-ASK	7.5	640	Miller M=4	-78	-73.7	N/A	>450
12	PR-ASK	15	320	Miller M=2	-79	-72.1	-62.8	>350
3	PR-ASK	20	320	Miller M=2	-79	-72.3	-63.4	>300
5	PR-ASK	20	320	Miller M=4	-82	-75.9	-67.5	>200
7	PR-ASK	20	250	Miller M=4	-82	-76	-68.5	>150
13	PR-ASK	20	160	Miller M=8	-86	-79.1	-72	>70

1. Test instrument CISC XPLOER 200, PER 90%, output power 30dBm, antenna port echo less than -20dB.
2. Test antenna gain 12dBi, 4000 tags.

3.N/A indicate this mode is not supported.

From the above table, SIMX300 provides up to 11 configuration methods, listing the two most important indicators for measuring the reader module: sensitivity and multi-tag reading speed. There is a trade-off between sensitivity and multi-tag speed. When the sensitivity is better, the reading speed rate of tags is lower. Between reading better and reading more, need to choose the appropriate mode based on customer application needs. Another thing to note is that when multiple readers work at the same time, there will be interference. Although a smaller TARI speeds up the communication connection with the tag, it will increase the bandwidth of the emission channel, which is easier to interfere with other readers. Higher BLF of the tag will increase the speed of the tag's reverse transmission signal. The tag return signal will fall in the adjacent channel. When other readers happen to be working in this channel, the reader is likely to be unable to demodulate the return signal of the label.

## Inventory Mode Parameters

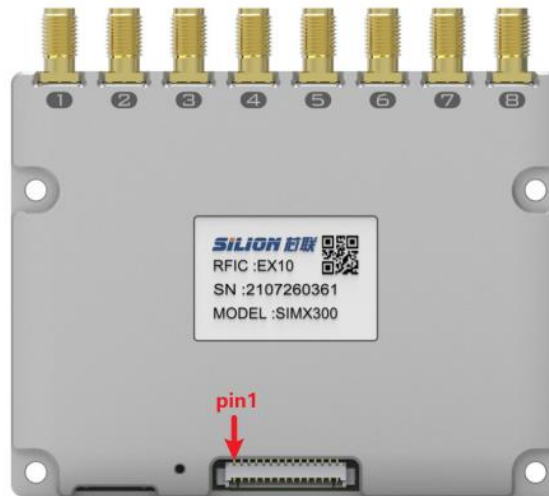
For different application scenarios, SIMX300 provides multiple working modes. Except for the temperature-controlled multi-tag inventory mode, other function are automatically completed by the reader module. This not only saves the command interaction time between the host and the reader module, but the excellent processing algorithm also greatly enhances the application adaptability of the product.

Application	Operating Mode	Description
Few tags, remote inventory	Normal mode	Recommend RF_MODE 13, session0, the reading time can be customized according to the reporting cycle. For multi-antenna products, it is recommended that the read time be set to the number of antennas used n*200ms or more. The read interval can be set to 0ms at the lowest.
	Fast mode	Recommend RF_MODE 13, session1, Target: A-B
Few tags multi-times inventory	Fast mode	Recommend RF_MODE 103(E710)\RF_MODE 120(E510)\RF_MODE 12(E310), session1, Target A-B,

		static Q value ( $2^Q \geq \text{number of tags}$ ) can even be read at a single frequency point
Multi-tag inventory	EX10 fast mode	RF_MODE automatically adjusts, and recommend to use a high baud rate (the module defaults is 115200bps, and can be configured up to 921600bps according to the upper limit of the communication interface), and the speed of reading all tags is fast.
Read all multi-tag	Fast mode	Recommend RF_MODE 7/13, session1, can use the full frequency band 860-960MHz when conditions permit.
Temperature controlled multi-tag inventory	E7 temperature control mode	RF_MODE auto-adjustable. When the number of new tags is less than the specified number, the working duty cycle is auto-adjusted; when the number of new tags exceeds the specified number, the full speed mode is restored.
High read rate inventory	Fast mode	Recommended mode RF_MODE 103 (E710)、RF_MODE 120 (E510)、RF_MODE 12 (E310), session2/3, Target A, static Q value ( $2^Q \geq \text{number of tag}$ ).



## PIN Configuration and Function

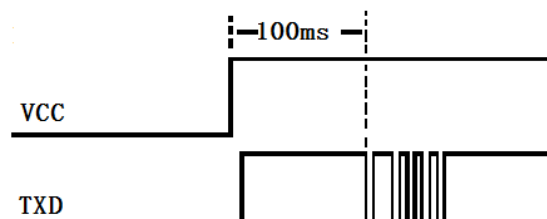


15PIN interface and RF interface			
PIN No.	PIN name	Type	Description
1	GND	Power supply	Ground
2	GND	Power supply	Ground
3	VCC	Power supply	Supply voltage, 4.75V-5.25V input
4	VCC	Power supply	Supply voltage, 4.75V-5.25V input
5	OUT1	Digital I/O	General-purpose I/O port output, push-pull output
6	OUT2	Digital I/O	General-purpose I/O port output, push-pull output
7	IN1	Digital I/O	General-purpose I/O port input
8	IN2	Digital I/O	General-purpose I/O port input
9	RXD	Digital input	Module UART input, 3.3V TTL voltage
10	TXD	Digital output	Module UART output, 3.3V TTL voltage
11	NC	null	Please hang in the air, do not connect it to GND
12	NC	null	Please hang in the air, do not connect it to GND
13	NC	Null	Please hang in the air, do not connect it to GND
14	EN	Digital input	EN module power: LOW & Disconnect (ACTIVE) HIGH (POWER DOWN)
15	NRST	Digital input	RST: LOW (ACTIVE), not use, please hang in the air
	ANT1-ANT8	RF	RF antenna port (50Ω)

## Application Description

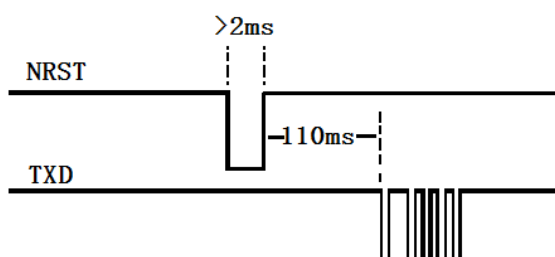
## ● Power-on Boot and IO Interface

After the module is powered on, it takes 100ms to initialize. Do not pull the reset pin low during this time, and the reader module will not respond to the received commands.



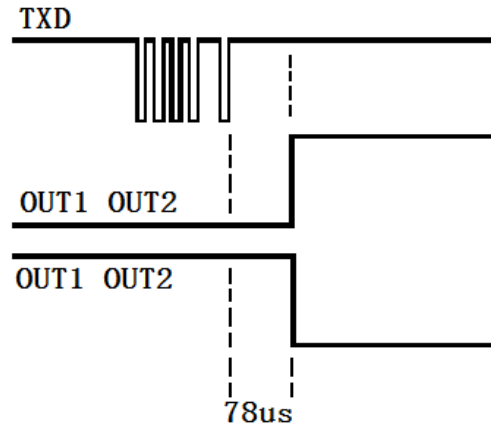
Power-on boot time

The NRST power-on reset release time is less than 3ms. After the module is powered on, pulling the NRST level low will cause the MCU of the internal module to restart. The NRST in the module has been connected to a 100K pull-up resistor. If the module is powered on, the low-level holding time that triggers the reset needs to be greater than 2ms. When reset occurs, the actual waiting time for reset needs to be greater than 110ms.

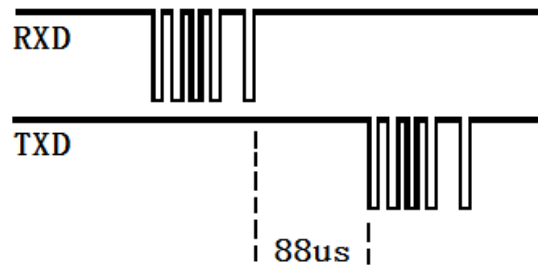


Reset waiting time

The response time is measured by the time difference between sending the GPIO command and the response. The command action time set by OUT1 and OUT2 is greater than 78us (not including command time). IN1, IN2 set command action time is greater than 88us (not including command time).

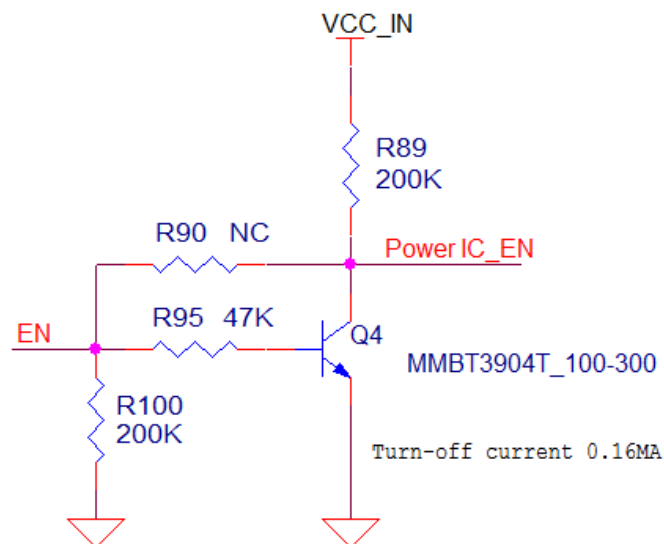


OUT1, OUT2 action time



IN1, IN2 action time

The EN pin has a built-in 200K pull-down resistor. When the EN pin is connected to low level or left floating, the module is powered on. When the EN pin is connected to high level, the module is powered down.



## ● Input Power

Due to the large operating current of the module, it is recommended to use a 5V3A regulated power supply to ensure that the module can work normally and stably.

It is recommended to use a 22-100uF tantalum capacitor for the VCC power input. If the size is limited, it can be changed to a small-sized ceramic capacitor, and at least a 0.1uF and a 100pF ceramic capacitor are connected in parallel. The maximum current when the module is operating is nearly 1.6A (peak current), when inventory tag, the power magnifier inside the module will be turned on and off frequently, which will cause the power supply voltage at the input end of the module to fluctuate accordingly. Add large-capacity capacitors can reduce the fluctuation amplitude of these voltages and filter out the interference of low-frequency signals, but it will also cause large instantaneous currents. According to the driving capability of the module power supply circuit, select an appropriate large-capacity decoupling capacitor. The 0.1uF and 100pF capacitors can be used to filter out the power supply ripple in the high-frequency band. Because the interference signal in the high-frequency band, especially the interference signal in the working frequency band, will enter the module, it will degrade the module's tag reading performance. And the addition of ceramic capacitors It can also prevent high-frequency signals generated when the module is working from passing through the power path and interfering with other circuit systems.

Due to the large operating current of the module, the cable connecting the module must be thick enough, otherwise there will be an excessive voltage difference at both ends of the connecting cable, which will make the module unable to work properly; too thin connecting cables are also more likely to produce radiated interference signals.

If the power input is a DC-DC conversion circuit, it is best to choose a power conversion chip with a switching frequency exceeding 1.5MHz to avoid interference with the weak signal returned by the tag.

## ● Communication Serial Port

The reader module adapts a 3.3V UART serial port for data communication. The data format is configured as 1 bit start, 8 bits data, 1 bit stop, and no check bit (8N1).

The baud rate of the serial port needs to meet the transmission rate requirements of the module for uploading tag data. When inventory large number of tags, the recommended baud rate is as shown in the following table:

RF_MODE ID	Forward Link Modulation	BLF(KHz)	Reverse Link Modulation	Baud Rate Select
103	DSB-ASK	640	FM0	921600
11	PR-ASK	640	FM0	921600
120	DSB-ASK	640	Miller M=2	>460800
1	PR-ASK	640	Miller M=2	>460800
345	PR-ASK	640	Miller M=4	>230400
15	PR-ASK	640	Miller M=4	>230400
12	PR-ASK	320	Miller M=2	>230400
3	PR-ASK	320	Miller M=2	>230400
5	PR-ASK	320	Miller M=4	>115200
7	PR-ASK	250	Miller M=4	>57600
13	PR-ASK	160	Miller M=8	>57600

## ● Antenna Port

Eight antenna polling works. The antenna ports have a high isolation of 50dB, which can effectively prevent signal leakage in application scenarios.

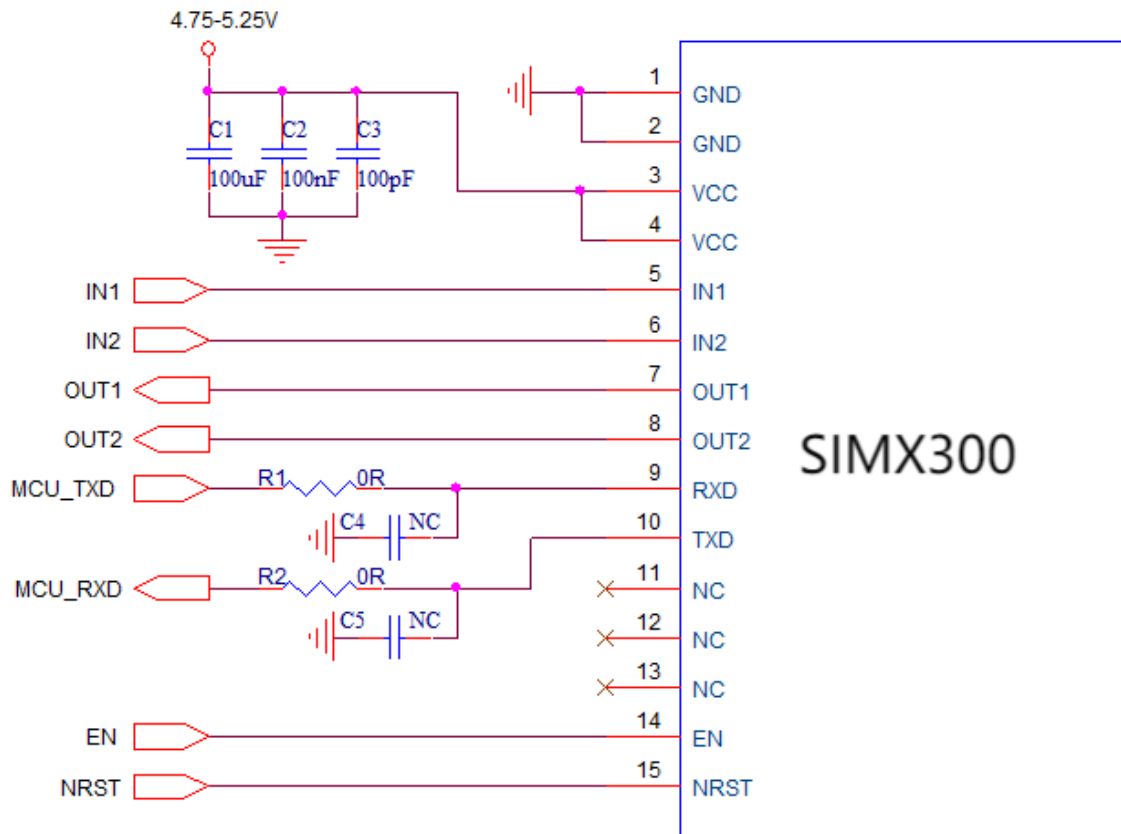
Mismatch between the module and antenna can lead to excessive signal reflection from the antenna to the reader module, causing a degradation in receiver sensitivity. It is recommended to maintain an antenna VSWR (Voltage Standing Wave Ratio) below 1.5. In applications requiring rapid reading of a large number of tags, especially when using modules based on the E710 chip, a high antenna VSWR that degrades receiver sensitivity can significantly increase the time required for reading all tags. For applications with fewer tags at closer distances, choosing modules based on the E510 or E310 may be more suitable.

Since there is no RF isolator or RF circulator used between the power amplifier chip in the module and the antenna, mismatches between the power amplifier chip and the antenna can affect linearity and conversion efficiency. The former can result in changes in transmission performance, such as reduced power output, radiation of spurious signals, and non-compliance with local radio regulations regarding spectrum masks. The latter can increase the module's power consumption, operating temperature, and reduce its lifespan. In the worst-case scenario, the power amplifier chip may operate in an unstable region due to mismatches, leading to self-excitation, which can easily damage the power amplifier chip. To ensure optimal module performance and stability, it is recommended to install the antenna in the application environment and use testing software to measure the VSWR after connecting the antenna. The VSWR should ideally be below 1.5.

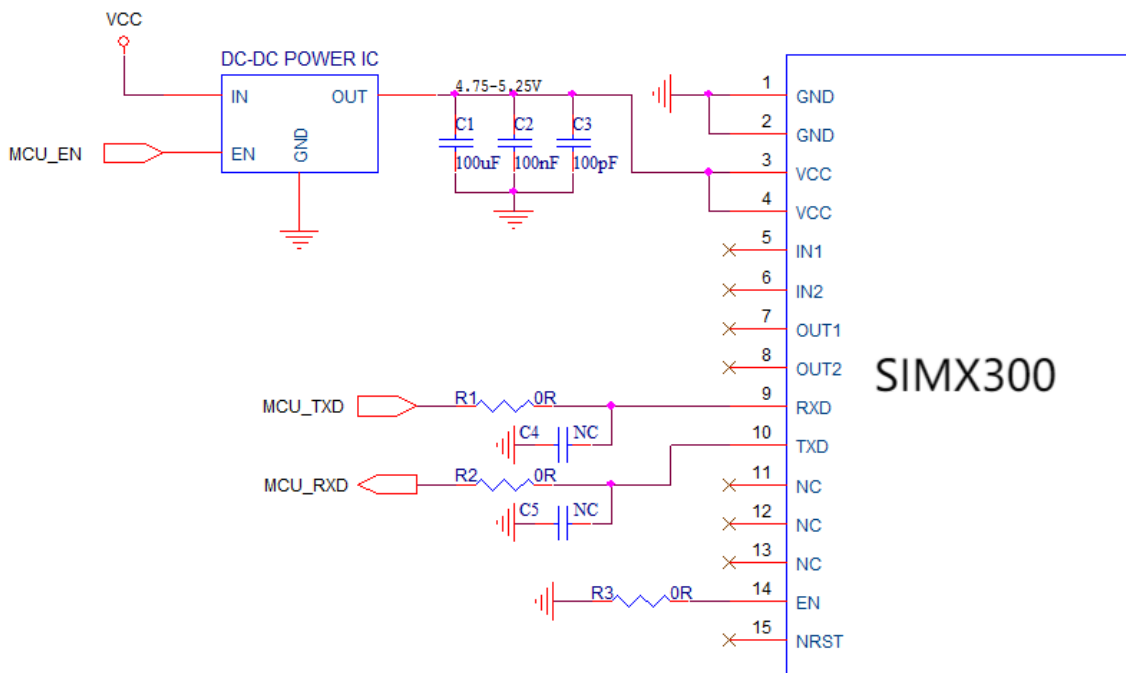
## ● Heat Dissipation

The SIMx300 module generates significant heat during fast mode operation, and its built-in aluminum alloy casing may not provide adequate heat dissipation. To ensure effective heat conduction, it is necessary to mount the module on a larger metal heat sink. Additionally, thermal conductive silicone grease or compound should be applied at the contact points between the module and the heat sink. To protect the module from overheating, it will automatically cease tag inventory when the detected temperature reaches 90°C. In such cases, you will need to resend the inventory command to resume tag inventory.

## ● Reference



Simplified Reference Circuit



## ● Label Explanation

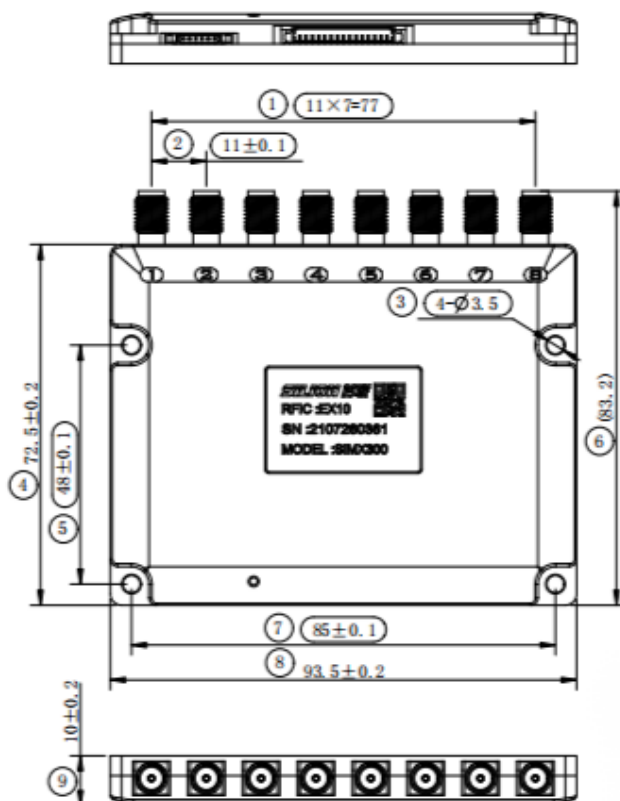
			—— SN QR code
Chipset: E710, E510, E310	—— RFIC: EX10		
	SN: YYMMDDXXXX		—— SN NO. : YYMMDD: year/month/date XXXX: module production serial
Module No. : SIM7200 SIM5200 SIM3200	—— MODEL: SIMX300		

## Dimension

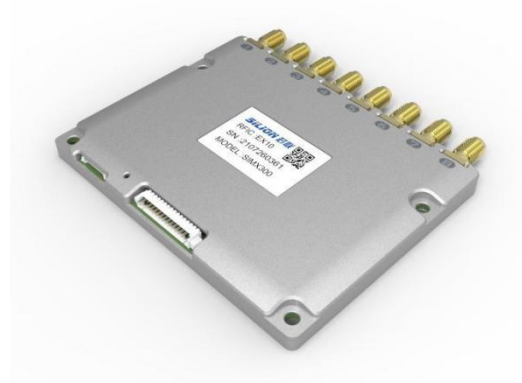
### ● size

product size: 93.5mm\*83.2mm\*8mm





## ● Appearance



## Version

Version	Date	Modify content
V1.0	2023/6/6	First edition
V1.1	2023/11/16	Add application scenario parameter configuration
.....		

## Contact

If you have any product requirements or any questions about using our products, please feel free to contact us at any time. We are here to serve you wholeheartedly.

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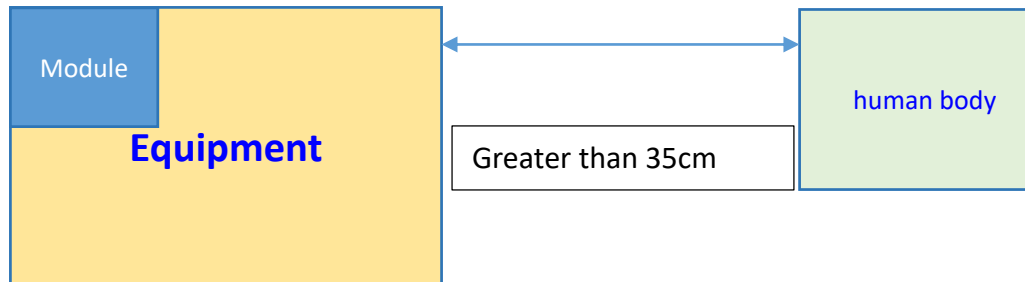
Location: Room 311, Building 6, TEEC Shanghai Center, 599 Lane, Yungu

Road, Jiading District, Shanghai, China

Mobile: 18916488006

Contact: Mr. Zhou

The RFID module is installed inside the user's device. Since the maximum power output of this product can be close to the standard limit(30dBm), the device must be at least 35cm away from the human body.



#### FCC 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.

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 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

#### Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 35cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. Country Code selection feature to be disabled for products marketed to the US/Canada.

This device is intended only for OEM integrators under the following conditions:

1. The antenna must be installed such that 35 cm is maintained between the antenna and users, and
2. The transmitter module may not be co-located with any other transmitter or antenna,

As long as the two conditions above are met, further transmitter testing will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed.

### Important Note:

In the event that these conditions cannot be met (for example certain laptop configurations or co-location with another transmitter), then the FCC authorization is no longer considered valid and the FCC ID cannot be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC authorization.

### End Product Labeling

The final end product must be labeled in a visible area with the following"

Contains FCC ID: **2AQ9M-SIM730002** "

### Manual Information to the End User

The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module in the user's manual of the end product which integrates this module.

The end user manual shall include all required regulatory information/warning as show in this manual.**Integration instructions for host product manufacturers according to KDB 996369 D03 OEM Manual v01r01**

#### 2.2 List of applicable FCC rules

CFR 47 FCC PART 15 SUBPART C has been investigated. It is applicable to the modular transmitter

#### 2.3 Specific operational use conditions

This module is stand-alone modular. If the end product will involve the Multiple simultaneously transmitting condition or different operational conditions for a stand-alone modular transmitter in a host, host manufacturer have to consult with module manufacturer for the installation method in end system.

#### 2.4 Limited module procedures

Not applicable

#### 2.5 Trace antenna designs

Not applicable

#### 2.6 RF exposure considerations

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 35cm between the radiator & your body.

#### 2.7 Antennas

This radio transmitter **FCC ID: 2AQ9M-SIM730002** 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.

Antenna No.	Model No. of antenna:	Type of antenna:	Gain of the antenna (Max.)	Frequency range:
RFID	/	External antenna	6.0dBi	902-928MHz

## **2.8 Label and compliance information**

The final end product must be labeled in a visible area with the following" Contains  
**FCC ID: 2AQ9M-SIM730002"**.

## **2.9 Information on test modes and additional testing requirements**

Host manufacturer is strongly recommended to confirm compliance with FCC requirements for the transmitter when the module is installed in the host.

### **2.10 Additional testing, Part 15 Subpart B disclaimer**

Host manufacturer is responsible for compliance of the host system with module installed with all other applicable requirements for the system such as Part 15 B.

### **2.11 Note EMI Considerations**

Host manufacture is recommended to use D04 Module Integration Guide recommending as "best practice" RF design engineering testing and evaluation in case non-linear interactions generate additional non-compliant limits due to module placement to host components or properties.

### **2.12 How to make changes**

This module is stand-alone modular. If the end product will involve the Multiple simultaneously transmitting condition or different operational conditions for a stand-alone modular transmitter in a host, host manufacturer have to consult with module manufacturer for the installation method in end system. According to the KDB 996369 D02 Q&A Q12, that a host manufacture only needs to do an evaluation (i.e., no C2PC required when no emission exceeds the limit of any individual device (including unintentional radiators) as a composite. The host manufacturer must fix any failure.

## **ISED Statement**

English: This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

The digital apparatus complies with Canadian CAN ICES-3 (B)/NMB-3(B).

-French: Le présent appareil est conforme aux CNR d'Industrie 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, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

L'appareil numérique du CIEM conforme canadien peut - 3 (b) / nmb - 3 (b).

This device meets the exemption from the routine evaluation limits in section 6.3 of RSS 102 and compliance with RSS 102 RF exposure, users can obtain Canadian information on RF exposure and compliance.

cet appareil est conforme à l'exemption des limites d'évaluation courante dans la section 6.3 du cnr - 102 et conformité avec rss 102 de l'exposition aux rf, les utilisateurs peuvent obtenir des données canadiennes sur l'exposition aux champs rf et la conformité.

This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment.

Cet équipement est conforme Canada limites d'exposition aux radiations dans un environnement non contrôlé.

This equipment should be installed and operated with minimum distance 35cm between the radiator & your body.

Cet équipement doit être installé et utilisé à une distance minimale de 35 cm entre le radiateur et votre corps.

## ISED Modular Usage Statement

NOTE 1: When the ISED certification 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 the wording "Contains transmitter module **IC: 32181-SIM730002**" or "Contains **IC: 32181-SIM730002**".

NOTE 1: Lorsque le numéro de certification ISED n'est pas visible lorsque le module est installé dans un autre appareil, l'extérieur de l'appareil dans lequel le module est installé doit également afficher une étiquette faisant référence au module inclus. Cette étiquette extérieure peut être libellée Contient le module émetteur IC: **32181-SIM730002** ou Contient IC: **32181-SIM730002**.