



EC800X\_ ( )  
CAT1 EC800 layout

	.....	<b>1</b>
<b>1</b>	.....	<b>4</b>
1.1	.....	4
<b>2</b>	“ ” .....	<b>5</b>
2.1	.....	5
2.2	“ ” .....	5
2.3	.....	6
2.4	.....	6
2.5	.....	6
<b>3</b>	“ ” .....	<b>7</b>
3.1	.....	7
3.2	* .....	9
3.3	.....	10
3.4	.....	11
3.5	GNSS .....	11
3.6	WiFi_Scan .....	11
<b>4</b>	.....	<b>12</b>
4.1	.....	13
4.2	.....	14
<b>5</b>	.....	<b>15</b>
5.1	.....	15
5.2	.....	16
5.3	.....	16
<b>6</b>	.....	<b>16</b>

6.1	.....	16
6.2	.....	17
6.3	.....	17
<b>7</b>	.....	<b>18</b>
7.1	.....	18
7.2	.....	18
<b>8</b>	.....	<b>19</b>
8.1	.....	19
8.2	USB_BOOT.....	19
8.3	.....	19
8.4	.....	19
	.....	<b>20</b>
	.....	20

**1**

**1.1**

**V1.0**

**V1.1**

**V1.2**

**V1.3**

ADC

**V1.4**

R/PK

\*



**2.3**

**2.4**

**2.5**

1      30M/

3 " " \*

EC800X

EC800X

2.54mm

-pin

3.1

---

1

RI

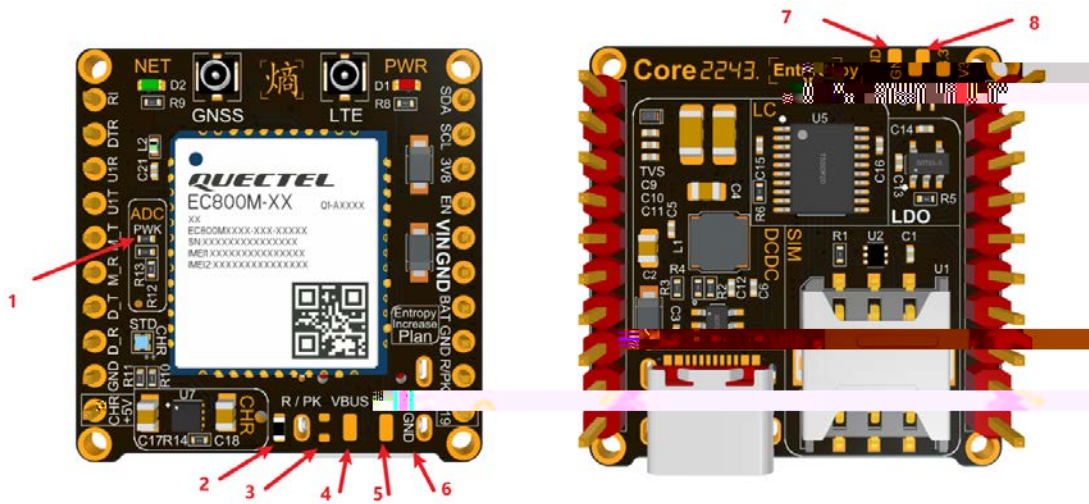
MAIN\_RI

---

8	D_R	DBG_RXD
9		

### 3.2

\*



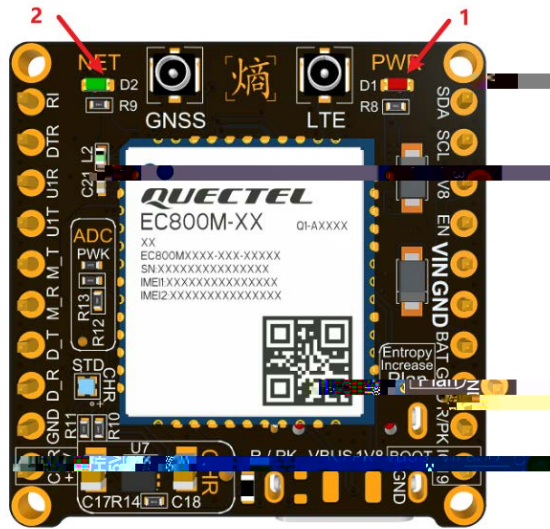
- 1 PWK: powerkey
- 2 RST: reset 0
- 3 PK: powerkey 0
- 4 VBUS: USB\_VBUS
- 5 1V8: VDD\_EXT
- 6 GND:
- 7 GND:
- 8 V3.3: LDO 3.3V

R/PK

1 PWK 2 RST 0

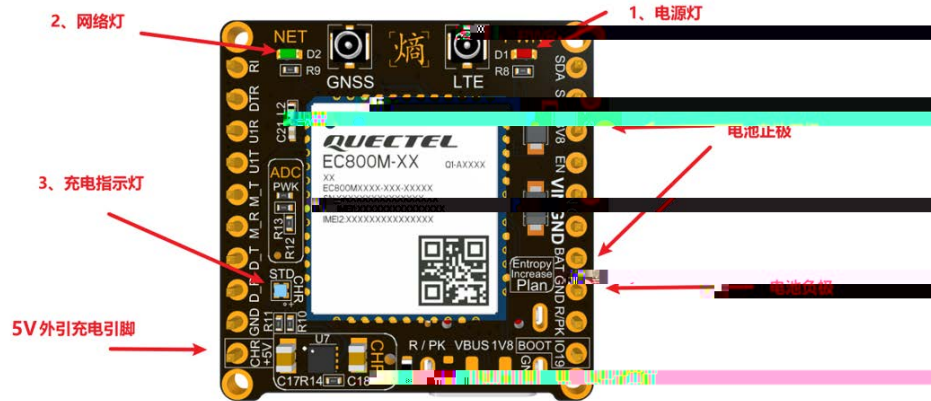
3 PK R/PK

### 3.3



1		1	2
2	1	2	
3	1	2	
4	1	2	
5		1	2
*		1	2

### 3.4



1				3V8	BAT
			GND		
2	1		Type-C	Type-C	CHR
	5V	1	3		
3	2		1	3	
*		3.7V	4.2V		
	4.2V				
		ADC			ADC
		ADC:VBAT=1:4			

### 3.5 GNSS

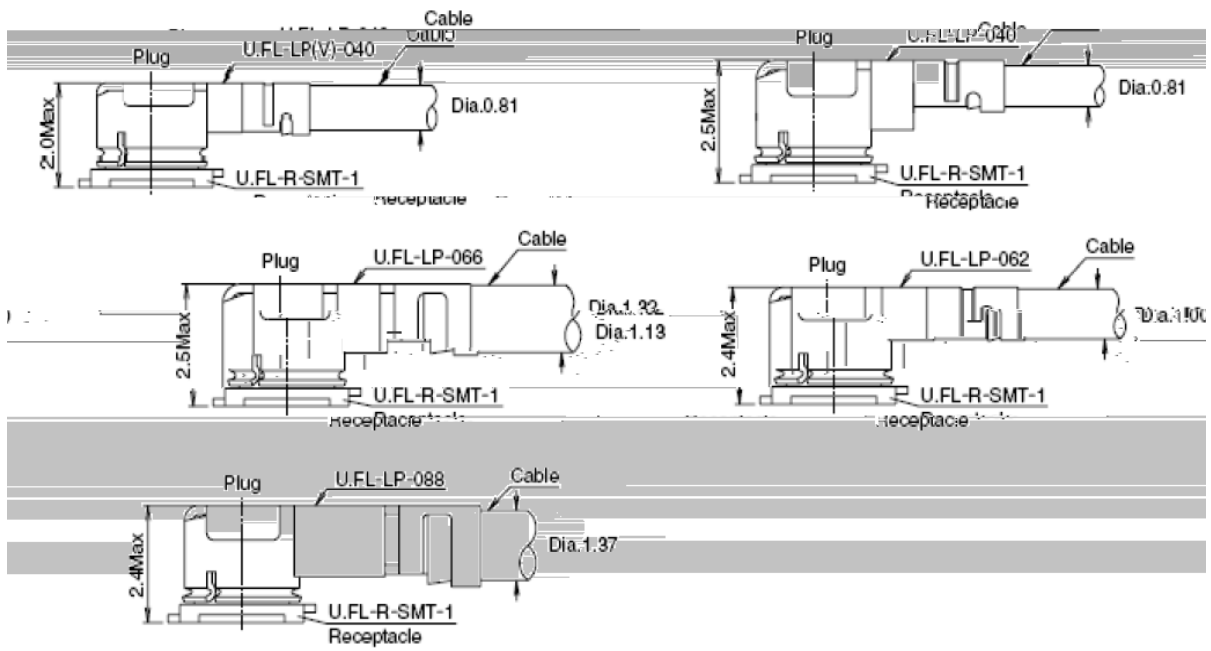
	EC800MCNGA	GNSS	IPEX
GNSS			

### 3.6 WiFi\_Scan

WiFi_Scan	WiFi_Scan	LTE
-----------	-----------	-----

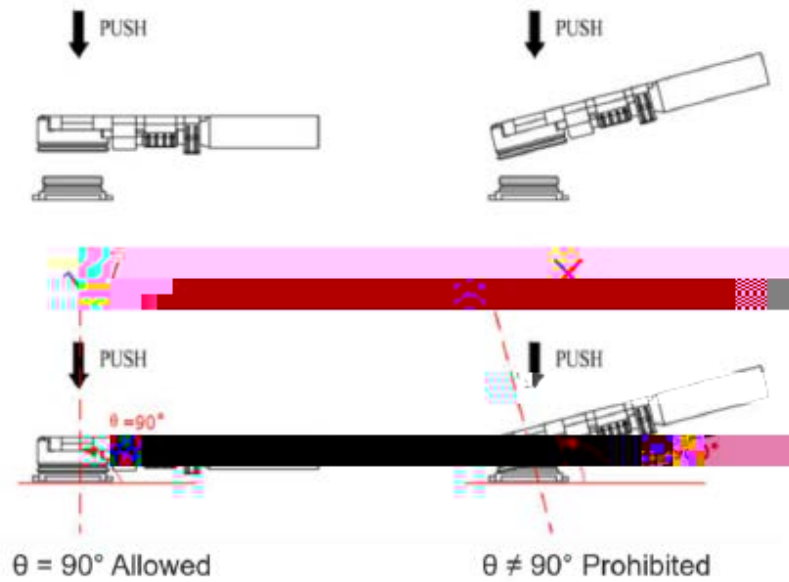
4

U.FL

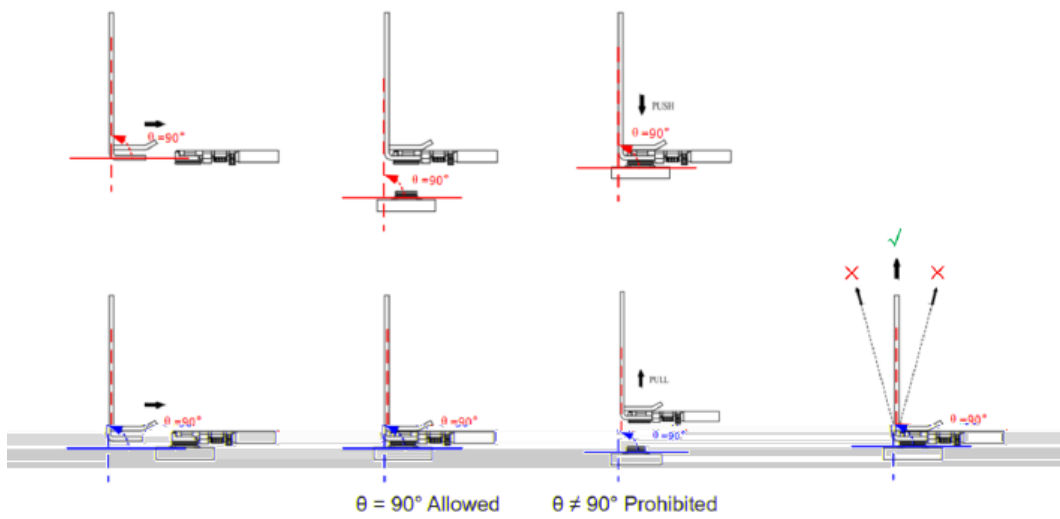


#### 4.1

90



4.2



# 5

## EC800X

### 5.1

EC800X

USB

---

USB_VIN	USB	4.6	5.0	5.1	V
---------	-----	-----	-----	-----	---

#### I/O

---

VIH		$0.7 \times VCC$	$VCC + 0.3$	V
VIL		-0.3	$0.3 \times VCC$	V
VOH		$VCC - 0.5$	VCC	V
VOL		0	0.4	V

---

\* VCC 3.3V,

## 5.2

### ESD

---

±5	±10	
±4	±8	kV
±0.5	±1	kV

## 5.3

---

-35	+25	+75	°C
-40		+80	°C
-40		+90	°C

\* 1 3GPP  
2

3GPP

3GPP

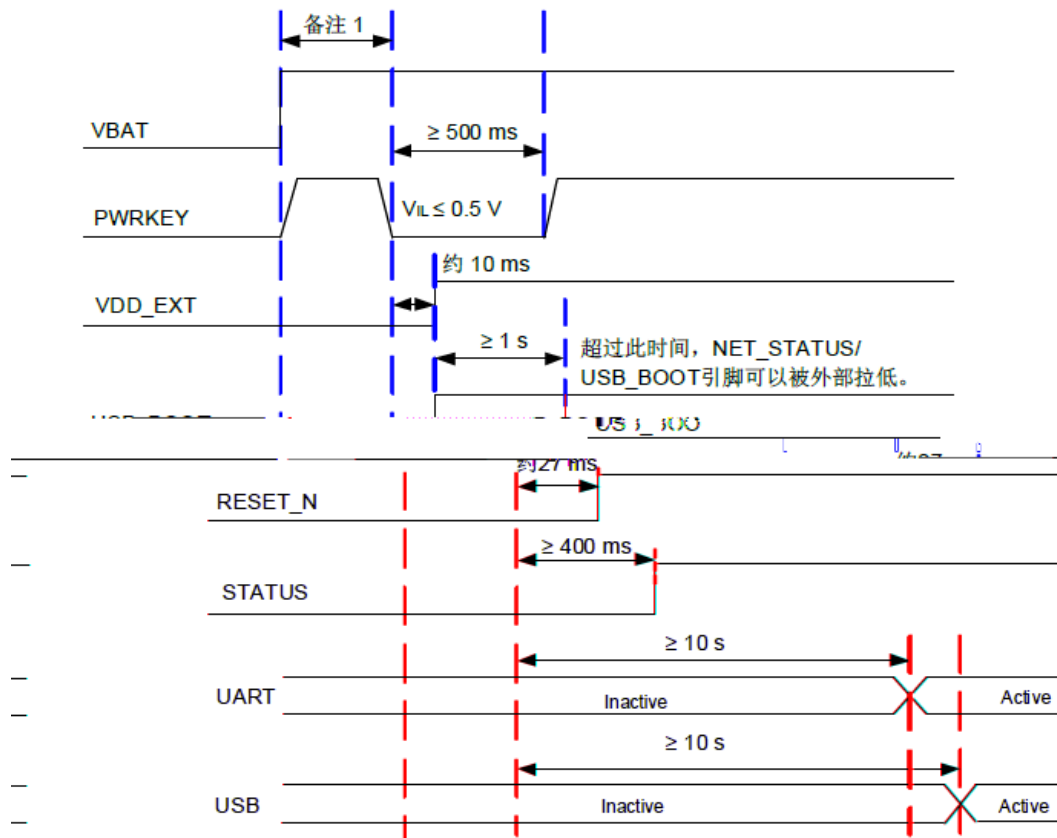
## 6

### 6.1

PCB

## 6.2

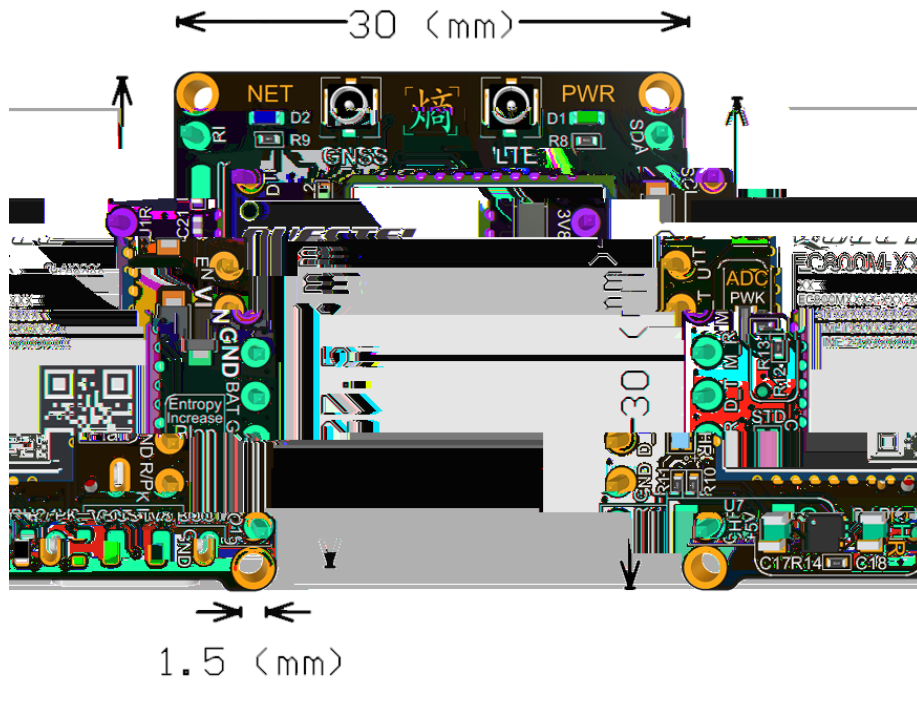
## 6.3



\*

7

7.1



0.1mm

7.2

EC800X ( ) FPC

# 8

EN

## USB\_BOOT

USB\_BOOT (IO19 )  
IO19 AT AT+QDOWNLOAD=1  
IO19

### 8.3

USB

USB

USB

### 8.4

3.7V

4.2V

4.2V

