

# QuecPython PH-7(C4-P02)

**LPWA&LTE Standard**

1.0.0

2024-04-30



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1.0.0    2024-04-30    Bruce

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..... 3

..... 4

..... 4

..... 6

**1** ..... **7**

    1.1. .... 7

    1.2. .... 7

**2** ..... **8**

**3** ..... **9**

**4** ..... **11**

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**8** ..... **20**

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1 ..... 7

2 ..... 7

3 ..... 9

4	BOOT .....	10
5	.....	12
6	.....	17
7 I/O	.....	17
8	.....	18
9	..... !	
10	.....	20



# 1

PH-7                      2.54mm                      38PIN

**设计理念:** PH-7

Be water , My friend.

	Python	Open	Python
Python		<a href="https://python.quectel.com/download">https://python.quectel.com/download</a>	
Python	API	<a href="https://python.quectel.com/doc/API_reference/zh/index.html">https://python.quectel.com/doc/API_reference/zh/index.html</a>	

## 1.1.

1

QuecPython BG&EG

2

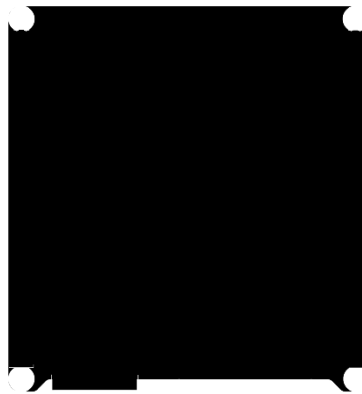
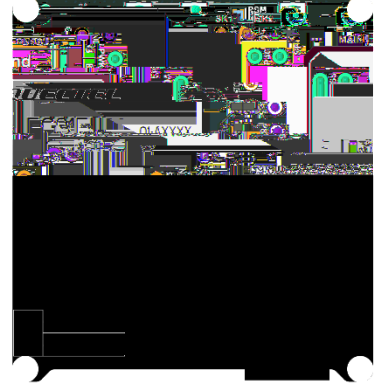
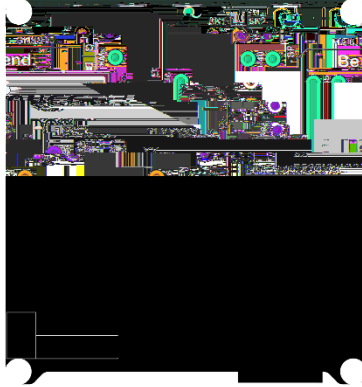
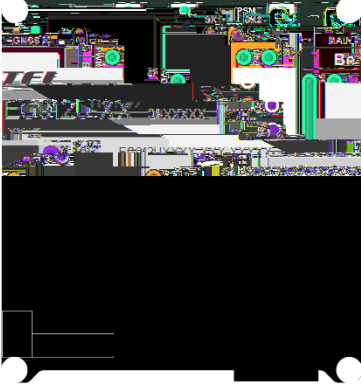
	BG95	BG96	EG915UEUAB	EG915ULAAB
QuecPython BG&EG	EG912UGLAA	EG		
	Python	API		QuecPython

## 1.2.

GPIO/UART/IIC/SPI/USB

EG		
Python		Open C

# 2



1 PH-7(C4-P02)



	CHR			
	STD			
ADC		ADC0	VBAT	VBAT:ADC0=4:1
GPIO		GPIO		2.54mm
Level_Line		2.3V-5.5V 3.3V		IC host
PWM			2.54mm	
LT_EN				
PON	PSM	PSM_EINT	PSM	
MIC&SPK				
PA	PA		SPK PA	
4	BOOT			
	EG	EG		
	BG	BG		
BOOT	USB_BOOT			

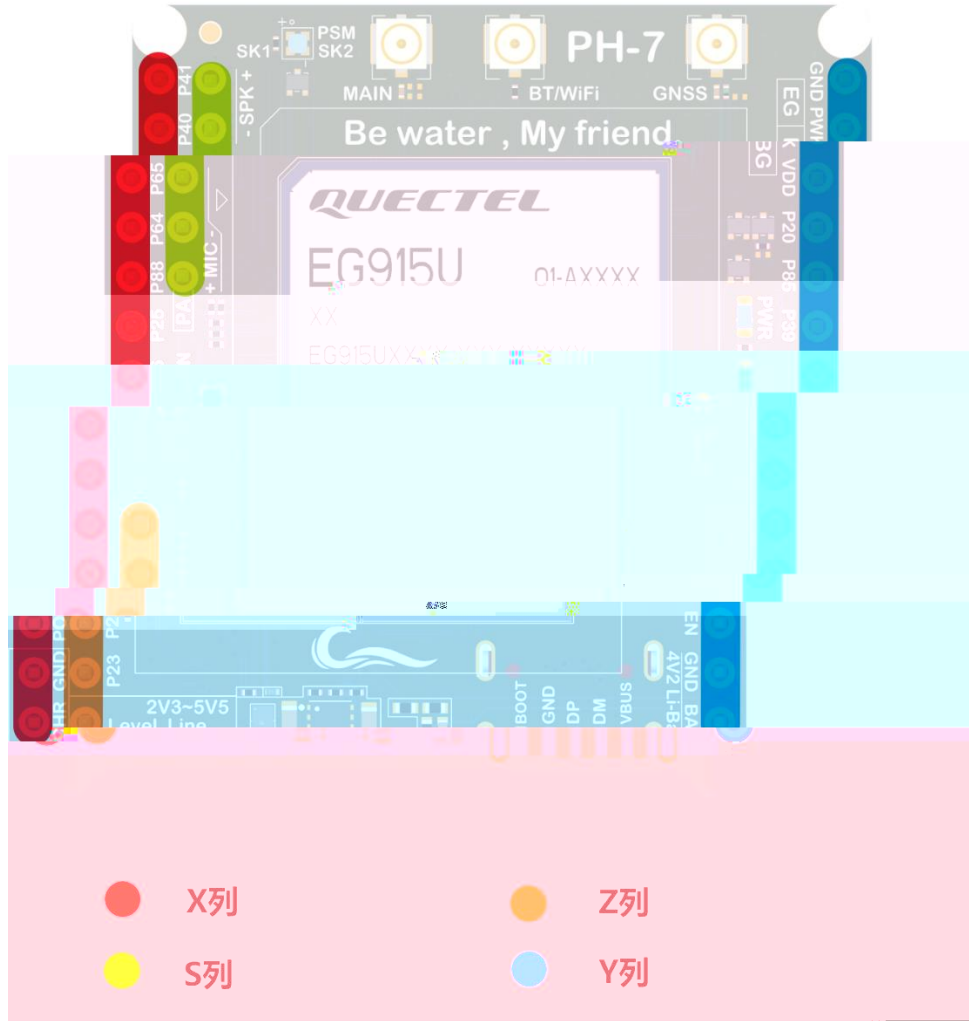
1.		3GPP	
2.			3GPP
	3GPP		

# 4

PH-7

## 4.1.

EG915U



5

GPIO14		BG_CS1		BG&EG_SDA1	<b>P41</b>	X1	S1	<b>SPK_N</b>	Y1	<b>GND</b>					
GPIO13		BG_CLK1		BG&EG_SCL1	<b>P40</b>	X2	S2	<b>SPK_P</b>	Y2	<b>POWERKEY</b>					
BG_GPIO16	BG_RX2	BG_MISO1			<b>P65</b>	X3	S3	<b>MIC_N</b>	Y3	<b>VDD_EXT</b>					
GPIO15	BG_TX2	BG_MOSI1		EG_MOSI0	<b>P64</b>	X4	S4	<b>MIC_P</b>	Y4	<b>P20</b>			EG_PWM0	BG_GPIO22	EG_GPIO16
GPIO21				EG_MISO0	<b>P88</b>	X5	S5	<b>PA</b>	Y5	<b>P85</b>		BG_PWM1		BG_GPIO18	EG_GPIO18
GPIO9		BG_SDA2	BG_CS0	EG_CS0	<b>P25</b>	X6									

**4.2.**

**4.2.1. USB**

Type-C USB  
5V-16V X13 X14 Y13 Y14  
4.2V  
USB CHRG X14

**4.2.2.**

1 VIN  
2 EN Y12 DCDC 1

**4.2.3.**

3.3V IC  
LT\_EN Y10 LT\_EN Y10 1V8 Y11

**4.2.4. GNSS**

GNSS BG95  
1 AT AT+QPGS=1 ~~GNSS~~  
2 GNSS P37 GNSS P37

**4.2.5. SD SIM**

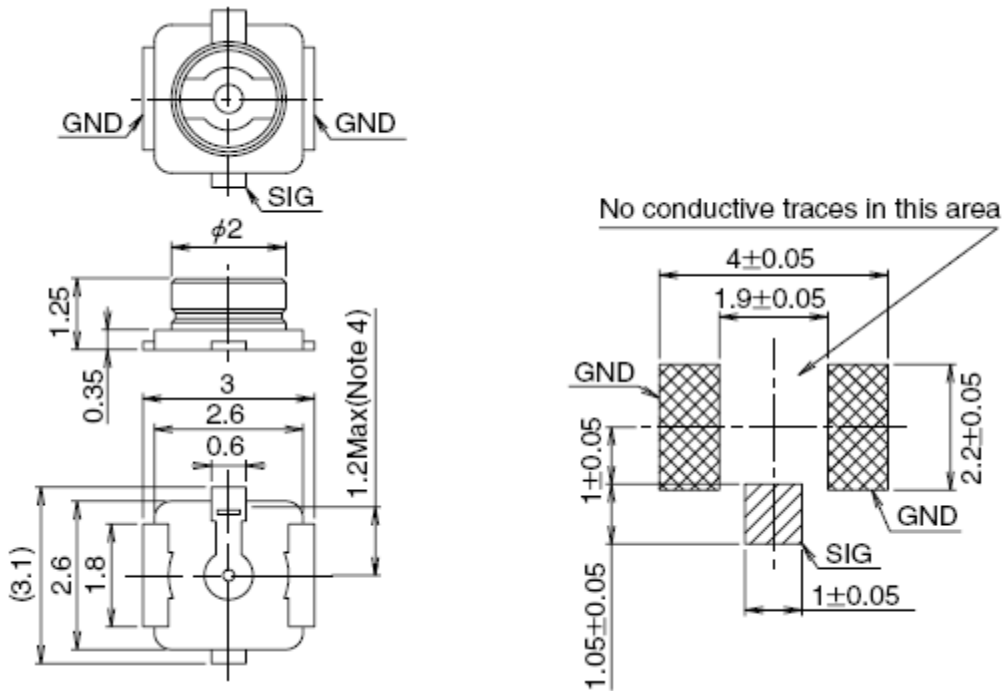
EG912UGLAA SD SD P36 SD  
SD SIM2 SD SIM2 SIM2 SD  
Flash

**4.2.6. Flash**

Flash Flash



# 5

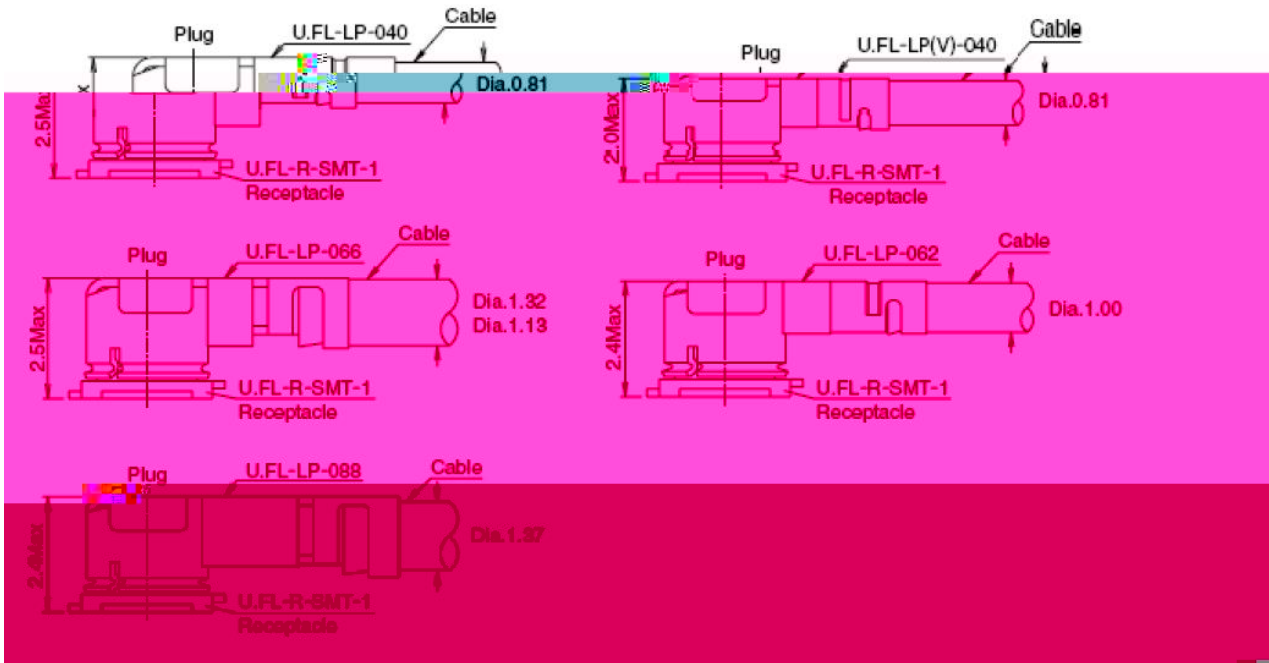


3

## U.FL-LP

Part No.	U.FL-LP-040	U.FL-LP-066	U.FL-LP(V)-040	U.FL-LP-062	U.FL-LP-088
Max. (mm)	3	3	2.8	2.8	3
Max. (mm)	4	4	3.4	4	5
Max. (mm)	2.5mm Max. (2.4mm Nom.)	2.5mm Max. (2.4mm Nom.)	2.0mm Max. (1.9mm Nom.)	2.4mm Max. (2.3mm Nom.)	2.4mm Max. (2.3mm Nom.)
Weight (mg)	34.8	46.6	71.7	63.7	69.1
Rel-ES	YES				

## 4 U.FL-LP





**6.2.**

ESD

8

±4000	±8000	V
±4000	±8000	V
±500	±1000	V



# 8

## 8.1.

10

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[1] [QuecPython-PH-7C4-P02 Core Board Specification and User Guide V1.0.0](#)

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[2] [QuecPython-PH-7C4-P02 Schematic Diagram](#)

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[3] [QuecPython-PH-7C4-P02 Silkscreen](#)