QuecPython PH-7(C4-P02)

LPWA&LTE Standard

1.0.0

2024-04-30

1016 3 B 5 200233
+86 21 5108 6236 info@quectel.com

http://www.quectel.com/cn/support/sales.htm

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1.0.0	2024-04-30	Bruce

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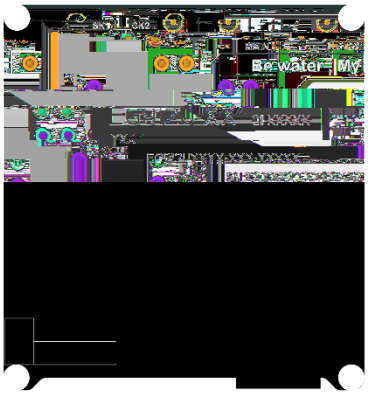
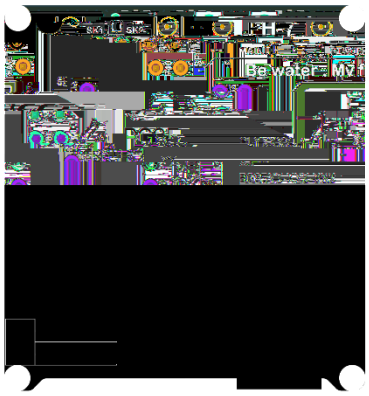
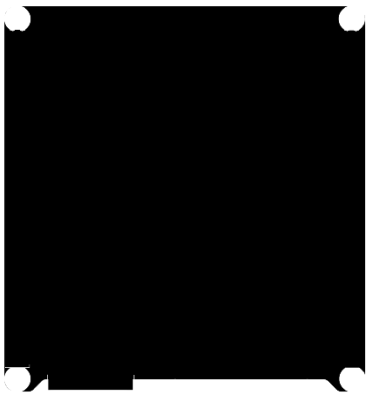






1 PH-7(C4-P02)

3

PH-7

3

			-35 ~ 75 -40 ~ 85	1 2	
		2.54mm	Type-C (USB2.0/USB3.0)		
UART					(2.54mm)
SPI				(2.54mm)	
IIC				(2.54mm)	
USB*1	USB	Type-C Python			
LED*7	PWR				
	NET	P21			
	SK1	SIM1 SIM 1	SIM 1		
	SK2	SIM2 SIM 2	SIM 2 EG		
	PSM	PSM	PSM		

	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	

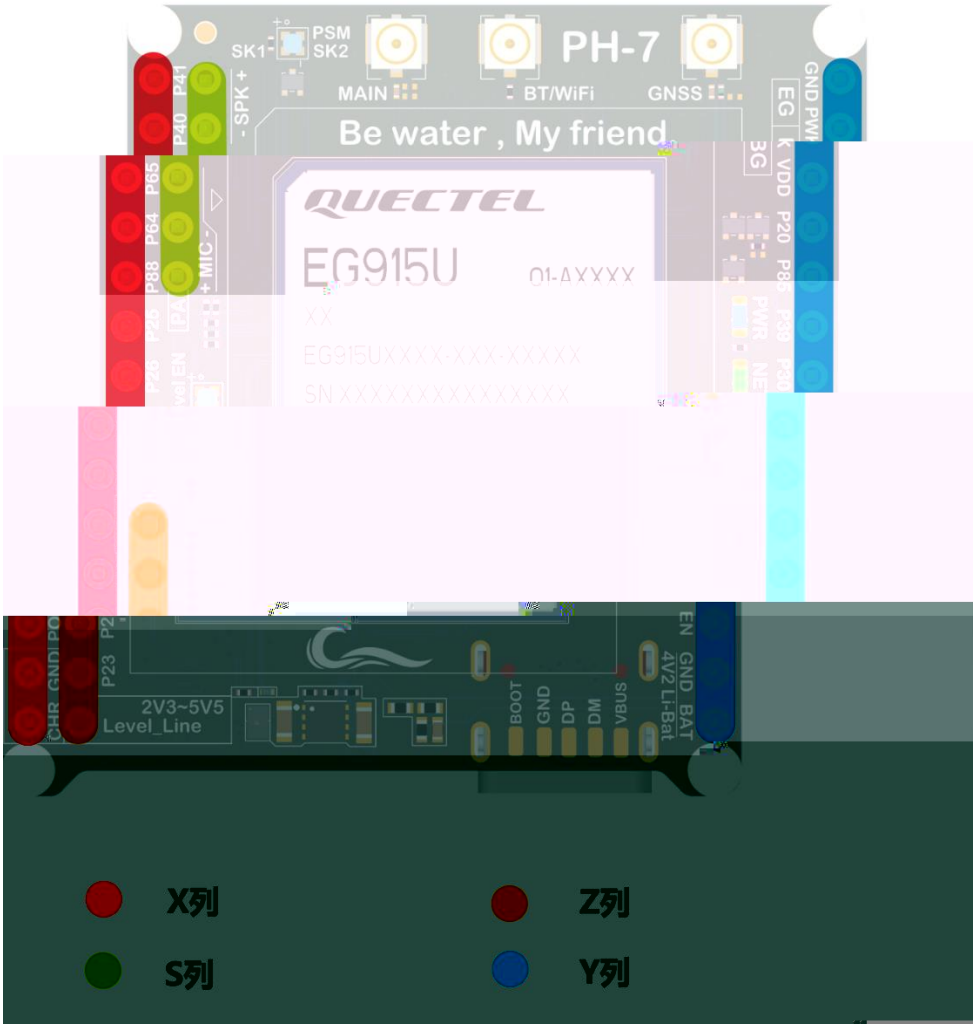
1. 3GPP
2. 3GPP
3GPP

4

PH-7

4.1.

EG915U



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GPIO14		BG_CS1		BG&EG_SDA1	**P41**	X1	S1	**SPK_N**	Y1	**GND**					
GPIO13		BG_CLK1		BG&EG_SCL1	**P40**	X2	S2	**SPK_P**	Y2	**POWERKEY**					
BG_GPIO16	BG_RX2	BG_MISO1			**P65**	X3	S3	**MIC_N**	Y3	**VDD_EXT**					
GPIO15	BG_TX2	BG_MOSI1		EG_MOSI0	**P64**	X4	S4	**MIC_P**	Y4	**P20**			EG_PWM0	BG_GPIO22	EG_GPIO16
GPIO21				EG_MISO0	**P88**	X5	S5	**PA**	Y5	**P85**		BG_PWM1		BG_GPIO18	EG_GPIO18
GPIO9		BG_SDA2	BG_CS0	EG_CS0	**P25**	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
P37 GNSS

4.2.5. SD SIM

EG912UGLAA SD SD P36 SD
SD SIM2 SD SIM2 SIM2
SD

4.2.6. Flash

Flash Flash

4.2.8. ADC

ADC ADC0 VBAT VBAT:ADC0=4:1

4.2.9.

PSM QuecPython

4.2.10. PSM

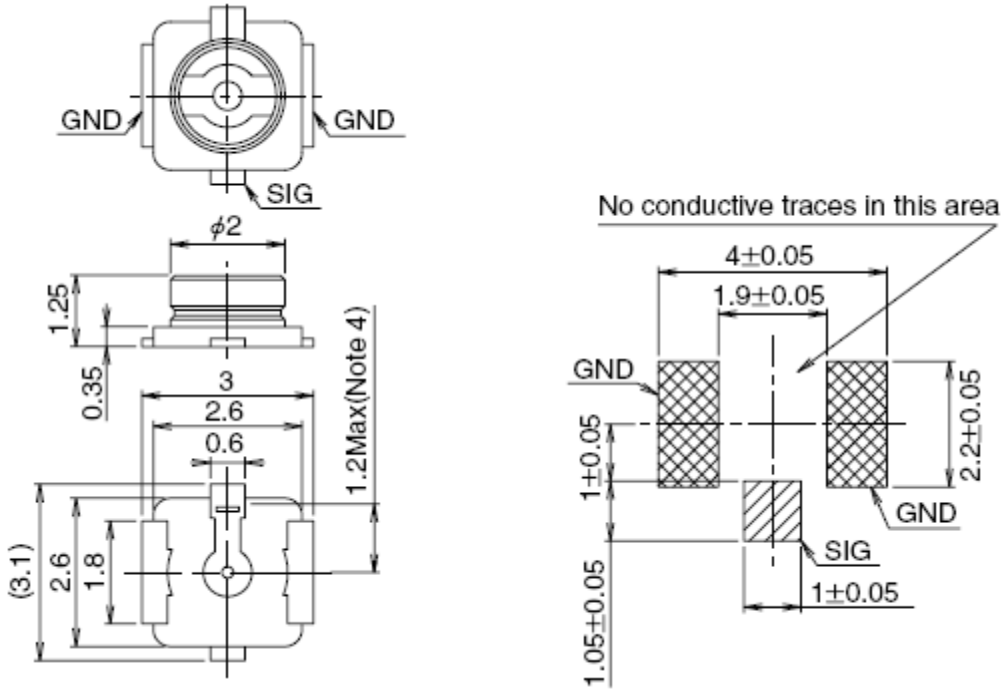
PSM PSM

1 POWERKEY

2 PON X12 X12 X11 3

1. EN VIN VIN 12V EN 12V EN, MOS IO
2. PA 1.8V Y11 X3
3. PON 1.8V X12 X11 .

5



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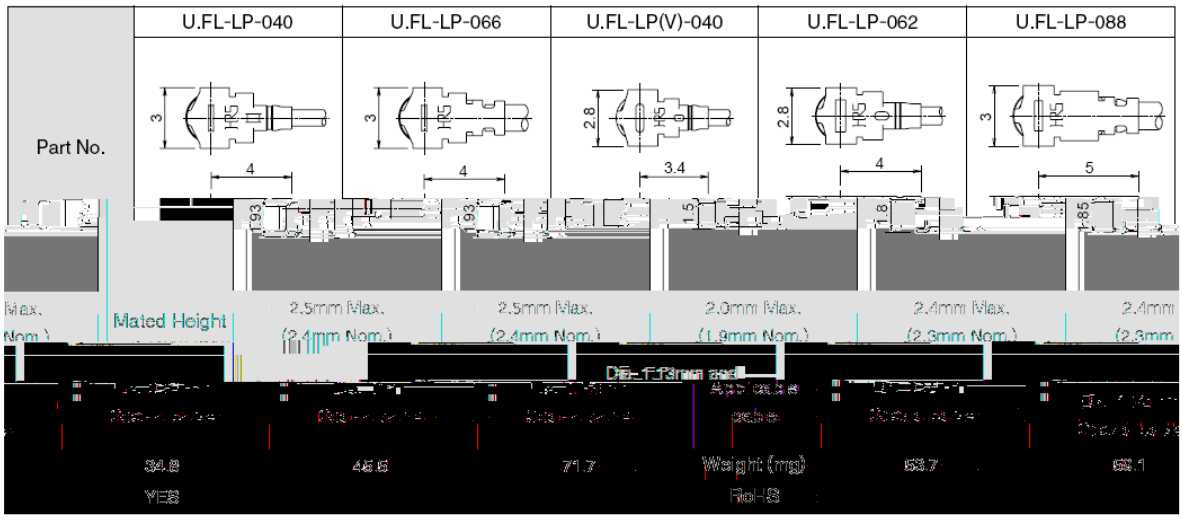
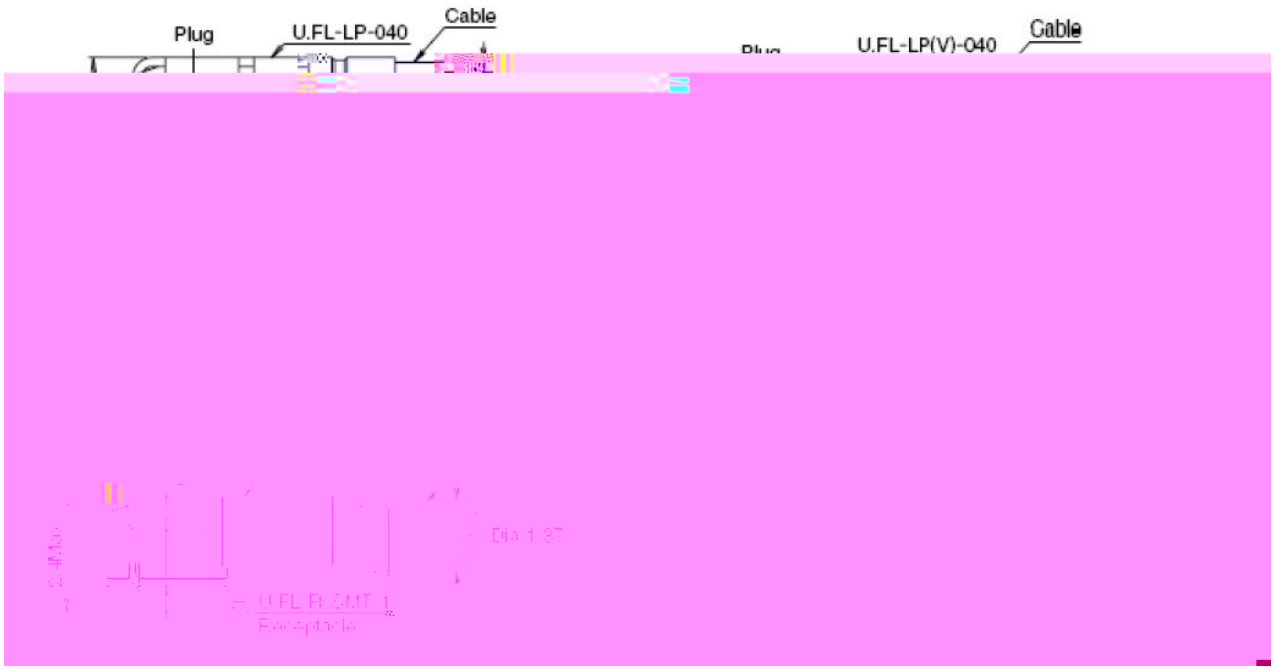
U.FL-LP



4 U.FL-LP



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6

6.1.

USB 5.0~5.1 V 5V-16V DCDC 3.8V

6

数				
	5	5.0	6	V
	5	5.0	16	V

7 I/O

VIH	0.7 × VCC	VCC + 0.3	V
VIL	-0.3	0.3 × VCC	V
VOH	VCC - 0.5	VCC	V
VOL	0	0.4	V

* VCC 3.3V

6.2.

ESD

8

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

8

8.1.

10

[1] QuecPython-PH-7C4-P02_Core_Board_Specification_and_User_Guide_V1.0.0
[2] QuecPython-PH-7C4-P02_Schematic_Diagram
[3] QuecPython-PH-7C4-P02_Silkscreen