1.0.0	2024-04-30	Bruce

.....3
.....4
.....4
.....6
1 7
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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 https://python.quectel.com/download
Python API https://python.quectel.com/doc/API_reference/zh/index.html

1.1.

1

QuecPython BG&EG

2

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

1.2.

GPIO/UART/IIC/SPI/USB

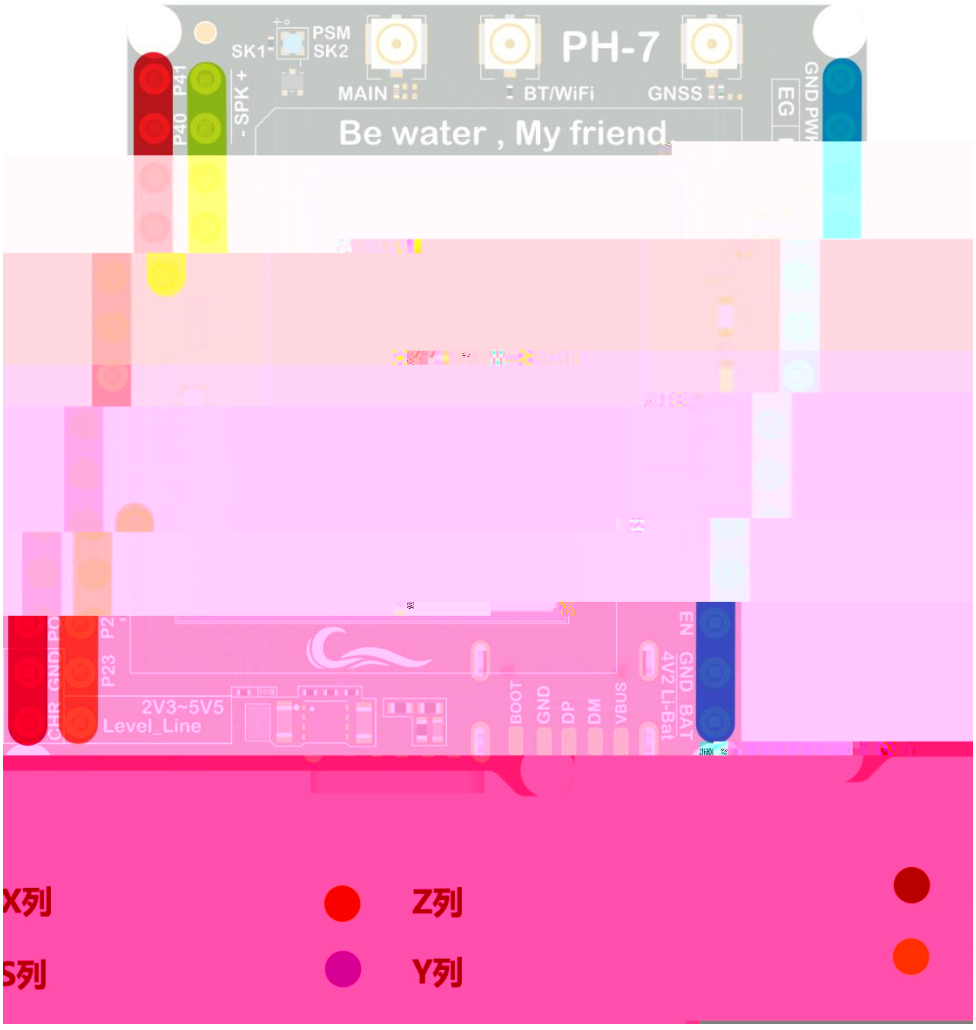
EG
Python Open C

4

PH-7

4.1.

EG915U



2

5

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

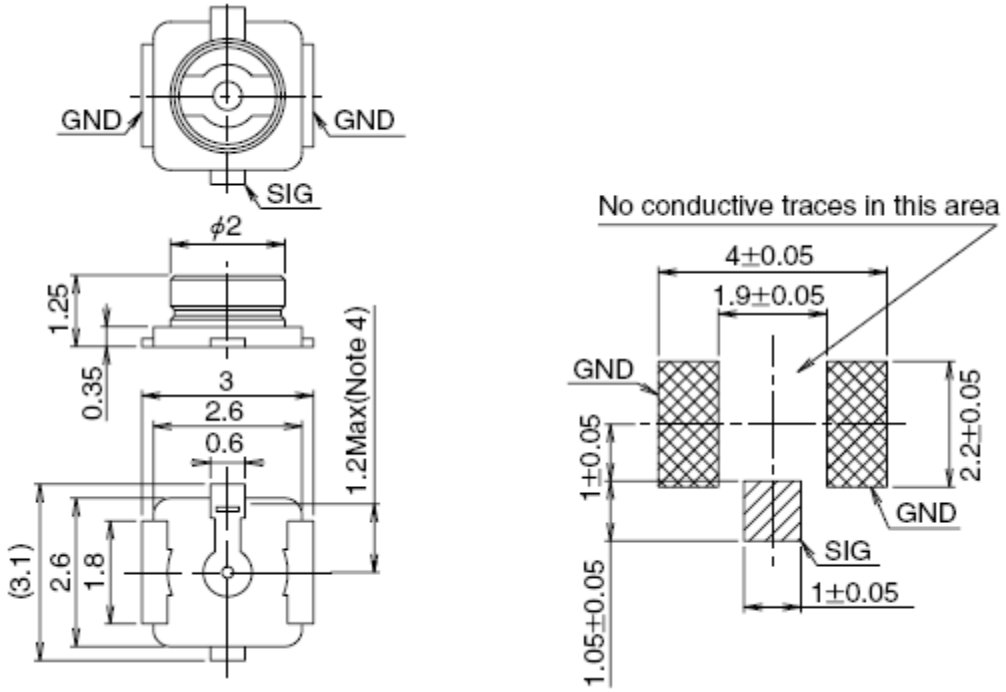
PSM PSM

1 POWERKEY

2 PON X12 X12 X11 3

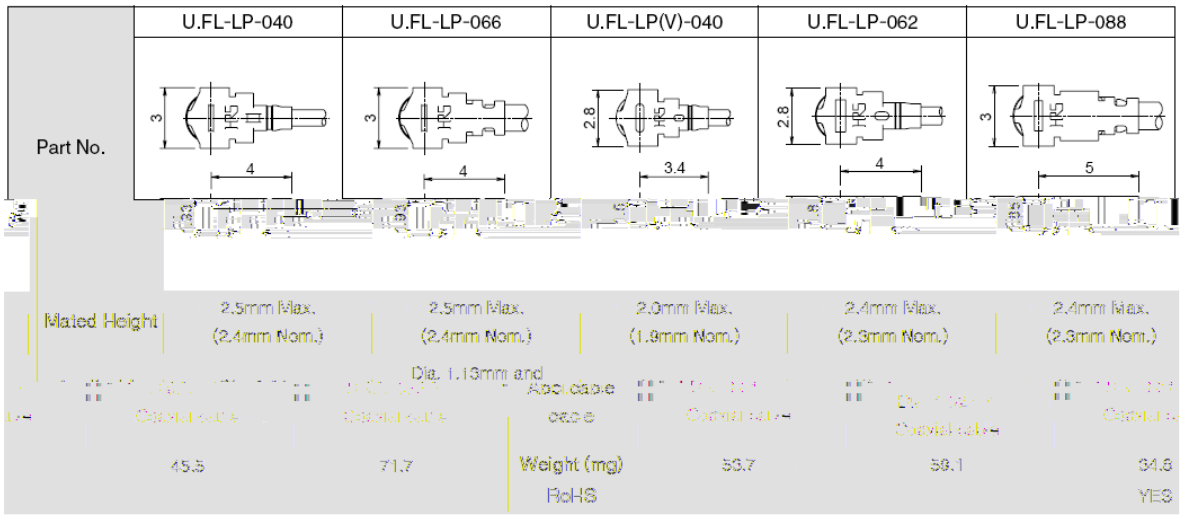
1. EN VIN VIN 12V EN 12V EN, MOS IO
2. PA 1.8V Y11 X3
3. PON 1.8V X12 X11 .

5

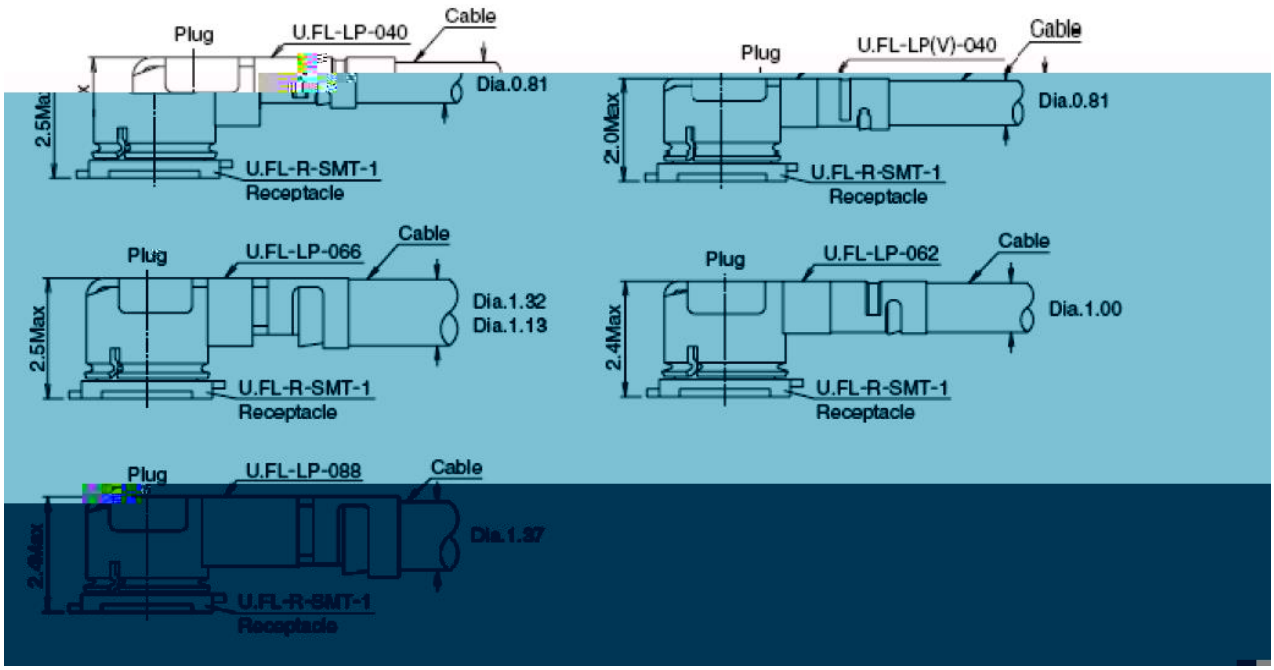


3

U.FL-LP



4 U.FL-LP


Plug
U.FL-LP-040
Cable
Dia.0.81
2.5Max
U.FL-R-SMT-1
Receptacle
Plug
U.FL-LP(V)-040
Cable
Dia.0.81
2.0Max
U.FL-R-SMT-1
Receptacle
Plug
U.FL-LP-066
Cable
Dia.1.32
Dia.1.13
2.5Max
U.FL-R-SMT-1
Receptacle
Plug
U.FL-LP-062
Cable
Dia.1.00
2.4Max
U.FL-R-SMT-1
Receptacle
Plug
U.FL-LP-088
Cable
Dia.1.37
2.0Max
U.FL-R-SMT-1
Receptacle

5

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