U1
E70-868T14S2

Pin	Signal		Signal	Pin
22	DIO_0	ANT		24
21	DIO_1	GND		23
20	DIO_2	GND		1
17	DIO_3	GND		2
16	DIO_4	GND		3
13	DIO_5	GND		9
12	DIO_6	GND		10
11	DIO_7	GND		15
7	DIO_8	VCC		8
6	DIO_9			
4	X32K_Q1	TMSC	TMS	19
5	X32K_Q2	TCKC	TCK	18
		RST	RST	14

BTN_COL1 — 22
BTN_COL2 — 21

BTN_ROW1 — 16
BTN_ROW2 — 13
BTN_ROW3 — 12

BAT1
BS-7

J1
A2005WV-2x4P
TMS 1 2
TCK 3 4
RST 5 6
7 8
TDO
TDI

Button matrix

BTN_COL1   BTN_COL2

SW1 BTN1   SW4 BTN2   — BTN_ROW1

SW2 BTN3   SW5 BTN4   — BTN_ROW2

SW3 BTN5   SW6 BTN6   — BTN_ROW3

Pin No	Pin item	Pin direction	Pin application
1、2、3	GND	Ground	Ground electrode
4、5、6、7	NC	Reserved pin	Reserved, to be floated
8	VCC	-	Positive power reference of the module, voltage range: 2.2V ~ 3.8V DC
9、10	GND	Ground	Ground electrode
11	PA_EN	Output	External PA control output, valid in high level (floatable)
12	LNA_EN	Output	External LNA control output, valid in high level (floatable)
13	M2	Input	M2, M1, M0 jointly decide the 8 working modes; an external 1k protective resistor shall be connected in series when in use.
14	RESET	Input	Module reset pin,valid in low level
15	GND	Ground	Ground electrode
16	AUX	Output	It is used to indicate the module operation status, for user to wake up the external MCU, the module outputs low level during self-checking and initialization at power on, it can be configured as open-drain output or pull-up output,please refer to parameter setting part (can be floated)
17	TXD	Output	It also can be usedas TTL serial port output connecting to external RXD input pin. It can be configured as open-drain or push-pull input,please refer to parameter setting part
18	TCKC	Input	JTAG TCKC
19	TMSC	Input	JTAG TMSC
20	RXD	Input	TTL serial port input connecting to external TXD pin. It can be configured as open-drain or high pull input, please refer to parameter setting part.
21	M1	Input	M2,M1, M0 jointly decide the 8 working modes;(Cannot be floated,it can be grounded when not used)
22	M0	Input	M2,M1, M0 jointly decide the 8 working modes;(Cannot be floated,it can be grounded when not used)
23	GND	Ground	Ground electrode
24	ANT	-	Antenna (50Ω characteristic impedance)