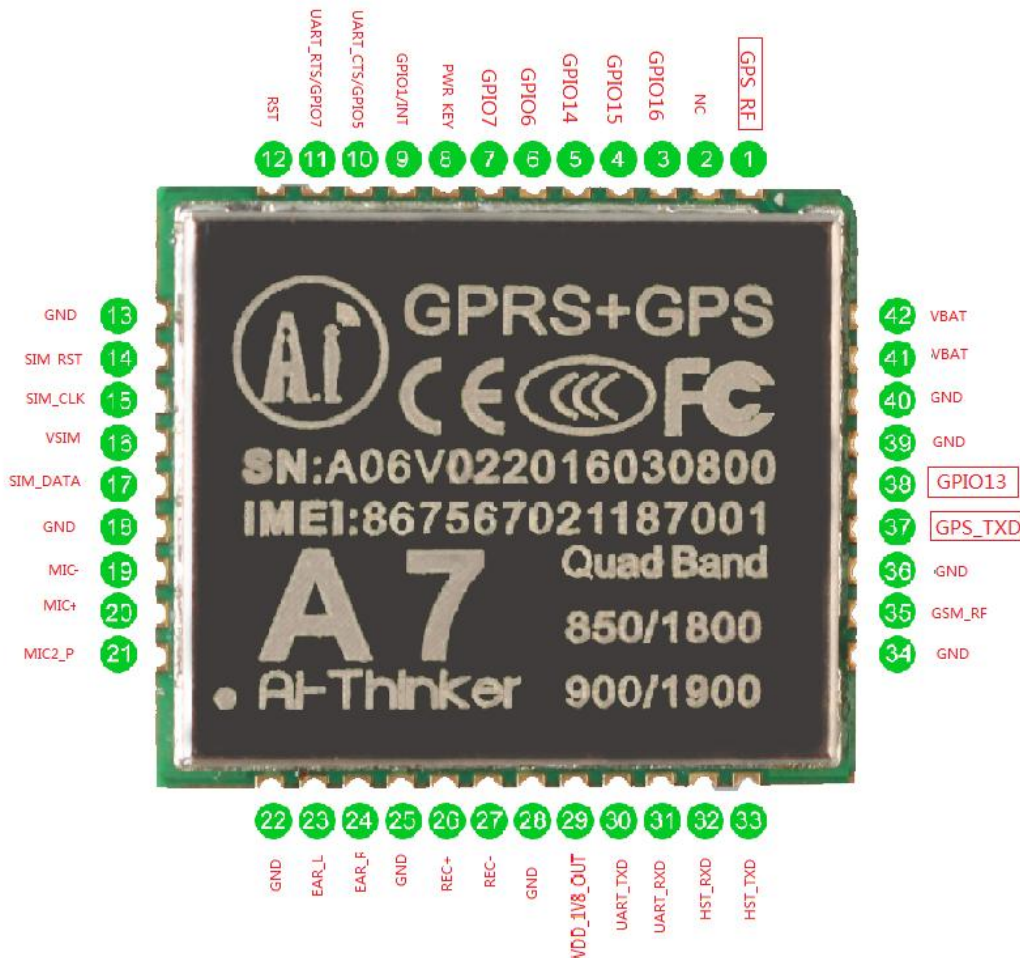


A7 module (GSM+GPRS+GPS+AGPS)

A7 Pin Description



Note: AT default buad rate is 115200

Number	Pin name	Description
1	GPS_RF	GPS antenna pin, external GPS antenna, Impedence must be controlled to 50 ohm. Antenna can use 1.8V active or passive antenna
2	GND	GND
3	GPIO16	When the module comes to call, SMS and data, the module will automatically exit the low power consumption and GPIO16 send a signal to pulled high, then pulled low.
4	GPIO15	GPIO15

5	GPIO14	GPIO14
6	GPIO6	GPIO6
7	GPIO 7	power on status
8	PWR_KEY	Boot key, if the voltage over 1.9V and keep 2s can be boot; This pin only need to provide boot voltage, don't supply power to the module.
9	GPIO1/INT	Be use to control module whether is low power consumption mode. High level exit, low level entry, in this mode, the standy current <1mA. Note: In this mode, the UART port can't be used, but comes to call, SMS, data will wake up module.
10	UART_CTS/GPIO5	AT UART port CTS
11	UART_RTS/GPIO7	AT UART port RTS
12	RST	Reset input, Active low(<0.05V, 70ma) Note: Must be used NMOS to control; Low level means that the module hardware is truned off. In the normal work, this pin can't be leakage, otherwise, it will lead to difficult to register the network. Note to PWR_key need to be pulled low, then be pulled high.
13	GND	GND
14	SIM_RST	SIM card RST
15	SIM_CLK	SIM card CLK
16	VSIM	SIM power
17	SIM_DATA	SIM data
18	GND	GND
19	MIC-	MIC cathode
20	MIC+	MIC anode
21	MIC2_P	headset MIC Interface
22	GND	GND
23	EAR_L	headset left channel
24	EAR_R	headset right channel
25	GND	GND
26	REC+	speaker anode
27	REC-	speaker cathode
28	GND	GND
29	VDD_1V8_OUT	external 1.8V power pin, suggest not to use it.
30	UART_TXD	AT UART port TXD, 2.8V
31	UART_RXD	AT UART port RXD, 2.8V
32	HST_RXD	Download UART RXD, 2.8V
33	HST_TXD	Download UART RXD,2.8V
34	GND	GND
35	GSM_RF	Antenna pin, if connect electrical lines of PCB, Impedence must be controlled to 50 ohm.

36	GND	GND
37	GPS_TXD	Information output serial port, be used to output NEMA format information, default baud rate is 9600; Note: NEMA information can also output on the AT UART port with AT command.
38	GPIO13	GPIO13
39	GND	GND
40	GND	GND
41,42	VBAT	power pin (3.5V-4.2V, >2A)

A7 Package Size

