U1
AI-Thinker ESP-32

Pin	Signal		Signal	Pin
19	3.3V	GND		38
18	EN	P23		37
17	SVP(GPIO36)	P22		36
16	SVN(GPIO39)	TX(GPIO1)		35
15	P34	RX(GPIO3)		34
14	P35	P21		33
13	P32	GND		32
12	P33	P19		31
11	P25	P18		30
10	P26	P5		29
9	P27	P17		28
8	P14	P16		27
7	P12	P4		26
6	GND	P0		25
5	P13	P2		24
4	SD2(GPIO9)	P15		23
3	SD3(GPIO10)	SD1(GPIO8)		22
2	CMD(GPIO11)	SD0(GPIO7)		21
1	5V	CLK(GPIO6)		20

P17 → GPIO17
P16 → GPIO16

GND

U2
SIM800C

5V
3V3
GND

C1 100uF
C2 10uF

GPIO16
GPIO17

Pin	Signal		Signal	Pin
1	5V	VBAT		16
2	V_TTL	GND		15
3	GND	PWX		14
4	TXD	GND		13
5	RXD	VRTC		12
6	DTR	RI		11
7	SPKP	MICP		10
8	SPKN	MICN		9

NOTES
1. 2A DRAW ON 5V, DO NOT USE ESP32 TO POWER
2. 100uF and 10uF tantalum capacitors over 5V and GND
3. For the module to start immediately when switched on, PWX is shorted to GND
4. V_TTL sets voltage of logic, 3V3 for ESP32 and 5V for Arduino UNO

TITLE: SIM800C INTERFACED WITH ESP32   REV: 1.0

Company: MICRO ROBOTICS   Sheet: 1/1

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