

## Gary Allen PCB Assembly Details

#	Reference	Qty	Value	Footprint
1	C4, C5, C8, C9	4	100nF	Capacitor_SMD:C_0805_2012Metric_Pad1.18x1.45mm_HandSolder
2	C1	1	1uF	Capacitor_SMD:C_1206_3216Metric_Pad1.33x1.80mm_HandSolder
3	C2	1	4.7uF	Capacitor_SMD:C_1206_3216Metric_Pad1.33x1.80mm_HandSolder
5	C6, C10	1	22uF	Capacitor_SMD:C_1206_3216Metric_Pad1.33x1.80mm_HandSolder
9	R3, R4	2	1.2k	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder
10	U1	1	ATMEGA328P-AU	Package_QFP:TQFP-32_7x7mm_P0.8mm
11	U2	1	Ai-Thinker-Ra-02	RF_Module:Ai-Thinker-Ra-01-LoRa
13	U4	1	MAX485E	MAX485:SO08
14	Y1	1	Crystal	Crystal:Crystal_SMD_HC49-SD

Reference	Pin #1 on IC	Pin #1 on PCB
U1	Marked	Bottom right
U2	Next to Molex connector	Top left
U4	Marked	Marked

("Bottom right" etc. is relative to when the text is placed upright on that side of the board)

Capacitor Value	Package	Size
100nF	White reel of 10	0805
1uF	Transparent reel of 2	1206
4.7uF	White reel of 2	1206
22uF	Transparent reel of 10	1206