

Main PCB parts

Name	Value	Case	Article number	Distributor	Price	Notes
C1	100nF	0805	X7R-G0805 100N	Reichelt	0,04 €	
C2	100nF	0805	X7R-G0805 100N	Reichelt	0,07 €	
C3	1µF	0805	X7R-G0805 1,0/25	Reichelt	0,04 €	
C4	1µF	0805	X7R-G0805 1,0/25	Reichelt	0,04 €	
C5	100nF	0603	X7R-G0603 100N	Reichelt	0,02 €	Only needed if IC4 is populated
C6	100nF	0603	X7R-G0603 100N	Reichelt	0,02 €	Only needed if IC4 is populated
C7	100nF	0805	X7R-G0805 100N	Reichelt	0,07 €	Only needed if IC2 is populated
C8	100nF	0805	X7R-G0805 100N	Reichelt	0,07 €	
C9	100nF	0805	X7R-G0805 100N	Reichelt	0,07 €	
C10	10µF	0805	X5R-G0805 10/16	Reichelt	0,05 €	
C11	1µF	0805	X7R-G0805 1,0/25	Reichelt	0,04 €	
C12	100nF	0805	X7R-G0805 100N	Reichelt	0,07 €	
C13	100nF	0805	X7R-G0805 100N	Reichelt	0,07 €	
C14	nc	C				not populated
D1	LED rot	0805	KBT KP-2012SURC	Reichelt	0,18 €	
IC1	Atmega328P(B)	TQFP32	ATMEGA 328P-AU	Reichelt	2,35 €	Alternative: ATMEGA328PB
IC2	TMAG5231	SOT23	595-TMAG5231B1DQDBZR	Mouser	0,33 €	Use either hall sensor or reed switch
IC3	RFM95W	RFM	RFM95W-868S2	TME	9,68 €	Alternative: G-NiceRF Lora1276-C1 868MHz / 1005004913346705
IC4	BMP280	LGA8	262-BMP280	Mouser	4,11 €	Alternative: Module via I2C header
IC5	MB85RS64T	SO8	249-85S64TPNFGJNERE2	Mouser	2,43 €	
K2	PROG	1x06	MPE 087-1-006	Reichelt	0,16 €	
K3	ISP	2x03	MPE 087-2-006	Reichelt	0,16 €	
K4	I2C	1x04	MPE 087-1-004	Reichelt	0,11 €	
K6	ANT U.FL	U.FL	712-CONMHF1-SMD-G-T	Mouser	0,25 €	
Q1	8MHz	CSTNE	81-CSTNE8M00G52000R0	Mouser	0,27 €	
R1	nc	0805				not populated
R2	1K	0805	SMD-0805 1,00K		0,03 €	
R3	nc	0805				not populated
R4	10K	0805	SMD-0805 10,0K		0,03 €	
R5	10K	0805	SMD-0805 10,0K		0,03 €	
R6	4,7K	0805	SMD-0805 4,70K		0,03 €	
R7	4,7K	0805	SMD-0805 4,70K		0,03 €	
R8	10K	0805	SMD-0805 10,0K		0,03 €	
S1	REED	Reed Switch				Use either hall sensor or reed switch. Original reed does *not* work here.
PCB	Circuit Board			JLC	3,00 €	Board thickness 1,0mm
					Total:	23,88 €

Battery PCB parts

Name	Value	Case	Article number	Distributor	Price	Notes
S1	Tactile Switch		TASTER 3301	Reichelt	0,20 €	
PCB	Circuit Board			JLC	2,00 €	Board thickness 1,0mm
					Total:	2,20 €

Antenna PCB parts

Name	Value	Case	Article number	Distributor	Price	Notes
K1	ANT U.FL	U.FL	712-CONMHF1-SMD-G-T	Mouser	0,25 €	
K2	SW868-TH13		1607969220	Aliexpress	0,64 €	
CBL	Cable U.FL female-female 10cm		1005003102128230	Aliexpress	0,41 €	
PCB	Circuit Board			JLC	2,00 €	Board thickness 1,0mm
					Total:	3,30 €

Misc parts

Name	Value	Case	Article number	Distributor	Price	Notes
CASE	Rain Gauge TFA 30.3161		TFA 30.3161		20,00 €	
PCOMP	Pressure compensation element		157881	ELV	4,95 €	
					Total:	24,95 €