

Total Components Cost

Sensor BOM

Reference	Value	Datasheet Description	LCSC	Manufacturer	Price	Quantity
> A1, A2	ALS-PT19-315C/L177	https://datasheet.lcsc.com/lcsc/1806131537	C146233	Everlight	\$0.1407	2
> C1, C2	CL10A105KB8NNNC	https://datasheet.lcsc.com/lcsc/1806131537	C15849	Samsung	\$0.0058	2
IC1	LM358DT	http://www.ti.com/lit/ds/lm358dt	C9418	STMicroelectronics	\$0.1043	1
> R1, R3-R5	RC0603FR-071KL	https://www.yageo.com/Products/General-Purpose-Chip-Resistors	C22548	YAGEO	\$0.0012	6
> R2, R6	AC0402FR-07536KL	https://www.yageo.com/Products/Thick-Film-Resistors	C144748	YAGEO	\$0.0011	2
Total					\$0.4067	

Microcontroller Module BOM

Reference	Value	Manufacturer Part Number	Price	JLCPCB Part Number	Qty
> C1, C2	CL10A335KP8NNNC	CL10A335KP8NNNC	\$0.0143	C51412	2
IC1	LM358DT	LM358DT	\$0.1043	C9418	1
IC2	AT24C256C-SSHL-T	AT24C256C-SSHL-T	\$1.5556	C6482	1
MCU1	STM32F030C8Tx		\$0.00		1
> R1, R2	RC0603FR-071KL	RC0603FR-071KL	\$0.0012	C22548	2
	R1 RC0603FR-071KL	RC0603FR-071KL	\$0.0012	C22548	1
	R2 RC0603FR-071KL	RC0603FR-071KL	\$0.0012	C22548	1
			total = \$1.6782		

Power Module BOM

Reference	Value	JLCPCB Part	price each(\$	quantity	price(\$)
BT1	3.7V		0	1	0
battery holder			4,18	1	4,18
> C1, C2	4,7uF	C69335	0,0203	2	0,0406
> C3, C4	1uF	C15849	0,0058	2	0,0116
C5	10nF	C15195	0,0011	1	0,0011
> C6, C7	100nF	C14663	0,0026	2	0,0052
C8	4.7uF	C69335	0,0203	1	0,0203
D1	LED	C2286	0,0032	1	0,0032
> D2, D3	BAT60J	C133103	0,833	2	1,666
FB1	Ferrite_Beac	C1002	0,0052	1	0,0052
J1	USB_B_Micr	C132560	0,3515	1	0,3515
JP1	Jumper_3_Open		0	1	0
Q1	IRF9540NPb	C2575	0,7363	1	0,7363
R1	2k	C433871	0,0195	1	0,0195
R2	470R	C23182	0,0013	1	0,0013
R4	10k	C25804	0,0013	1	0,0013
U1	MCP73831-2	C424093	1,3166	1	1,3166
U2	FT232RL	C8690	6,6312	1	6,6312
U3	MCP1700-33	C39051	0,961	1	0,961
TOTAL PRICE(\$)					15,9519

Total Cost of Components: \$18.0347