

Total Components Cost

Sensor BOM

	A	B	C	D	E	F	G	H
1	Reference	Value	Datasheet	Description	LCSC	Manufacturer	Price	Quantity
2	> A1, A2	ALS-PT19-315C/L177/	https://datasheet.lcsc.com/lcsc/1806131537_Everlight-Elec-A		C146233	Everlight	\$0.1407	2
3	> C1, C2	CL10A105KB8NNNC	https://	CAP, 1uF, 50V, +/-10%, X5R, 0603	C15849	Samsung	\$0.0058	2
4	IC1	LM358DT	http://	LM358DT, Dual Operational Amplifier 1.1MHz 5 to 28V	C9418	STMicroelectronics	\$0.1043	1
5	> R1, R3-R5	RC0603FR-071KL	https://	GENERAL PURPOSE CHIP RESISTORS	C22548	YAGEO	\$0.0012	6
6	> R2, R6	AC0402FR-07536KL	https://	Thick Film Resistors - SMD 1/16W 536K ohm 1% AEC-Q200	C144748	YAGEO	\$0.0011	2
7	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
> 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_Bead	C1002	0,0052	1	0,0052
J1	USB_B_Micro	C132560	0,3515	1	0,3515
JP1	Jumper_3_Open		0	1	0
Q1	IRF9540NPbF	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-OT	C424093	1,3166	1	1,3166
U2	FT232RL	C8690	6,6312	1	6,6312
U3	MCP1700-3302E_TO92	C39051	0,961	1	0,961
TOTAL PRICE(\$)					11,7719

Total Cost of Components: \$13.8568