

The following is the list of components used in the project. The links provided aren't necessarily the cheapest place to purchase the components, we've included it simply to indicate places where we have purchased them. The following is the list of components used in the project. The links provided

Component List					
Item	Price	Name	Buy Extras Required number	Description	Link
1	\$0.48	49.9 Ohm resistor	3	RES SMD 49.9 OHM 1% 1/8W 0805	<a href="https://www.mouser.com/ProductDetail/Vishay-Dale/CRCW080549R9">https://www.mouser.com/ProductDetail/Vishay-Dale/CRCW080549R9</a>
2	\$4.73	499 Ohm resistor	1	RES SMD 499 OHM 1% 1/8W 0805	<a href="https://www.mouser.com/c/passive-components/resistors/?resistance">https://www.mouser.com/c/passive-components/resistors/?resistance</a>
3	\$0.30	1K resistor	3	RES SMD 1K OHM 1% 1/8W 0805	<a href="https://www.digikey.com/en/products/detail/stackpole-electronics-inc/226kOhms-Through-Hole-Resistors">DigiKey\$0.10YAGEO CFR25SJT-52-1K RES 1K OHM 5% 1/4W AXIALIn s</a>
4	\$0.40	10k resistor	2	RES SMD 10K OHM 1% 1/8W 0805	<a href="https://www.digikey.com/en/products/detail/stackpole-electronics-inc/226kOhms-Through-Hole-Resistors">American Loopers\$0.20Resistor 10K OhmIn stock online\$3.50 delivery A</a>
5	\$0.20	100k resistor	2	RES SMD 100K OHM 1% 1/8W 0805	<a href="https://www.digikey.com/en/products/detail/stackpole-electronics-inc/226kOhms-Through-Hole-Resistors">https://www.digikey.com/en/products/detail/stackpole-electronics-inc</a>
6	\$0.10	226k resistor	1	RES SMD 226K OHM 1% 1/8W 0805	<a href="https://www.digikey.com/en/products/detail/murata-electronics/GRV">226 kOhms Through Hole ResistorsDigiKeyhttps://www</a>
7	\$2.24	5pF capacitor	1	CAP CER 5PF 50V NPO 0805	<a href="https://www.amazon.com/CMR4C5R0DP-5-0PF-5PF-CAPACITOR-RADI">https://www.amazon.com/CMR4C5R0DP-5-0PF-5PF-CAPACITOR-RADI</a>
8	\$5.99	22pF capacitor	1	CAP CER 22PF 50V NPO 0805	<a href="http://amazon.com/Cermant-Ceramic-Capacitor-Electronic-Componen">http://amazon.com/Cermant-Ceramic-Capacitor-Electronic-Componen</a>
9	\$14.00	10nF capacitor	5	CAP CER 10000PF 50V X7R 0805	<a href="https://www.amazon.com/ALLECIN-Ceramic-Capacitors-Multilayer-Mo">https://www.amazon.com/ALLECIN-Ceramic-Capacitors-Multilayer-Mo</a>
10	\$0.10	0.1uF capacitor	1	CAP CER 0.1UF 50V X7R 0805	<a href="https://www.digikey.com/en/products/detail/murata-electronics/GRV">https://www.digikey.com/en/products/detail/murata-electronics/GRV</a>
11	\$6.99	0.47uF capacitor	1	CAP CER 0.47UF 50V X7R 0805	<a href="https://www.amazon.com/ALLECIN-Capacitors-0-47uF-474-Multilayer-">https://www.amazon.com/ALLECIN-Capacitors-0-47uF-474-Multilayer-</a>
12	\$5.99	1uF capacitor	1	CAP CER 1UF 50V Y5V 0805	<a href="https://www.amazon.com/ALLECIN-Electrolytic-Capacitor-0-2x0-43in-C">https://www.amazon.com/ALLECIN-Electrolytic-Capacitor-0-2x0-43in-C</a>
13	\$6.99	10uF capacitor	1	CAP CER 10UF 6.3V X5R 0805	<a href="https://www.amazon.com/ALLECIN-Capacitors-Multilayer-Monolithic-C">https://www.amazon.com/ALLECIN-Capacitors-Multilayer-Monolithic-C</a>
14	\$0.96	47uH inductor	1	FIXED IND 47UH 170MA 1.3 OHM SMD	<a href="https://www.mouser.com/c/passive-components/inductors-chokes-co">https://www.mouser.com/c/passive-components/inductors-chokes-co</a>
15	\$2.99	Schottky diode	2	DIODE SCHOTTKY 40V 500MA SOD123	<a href="https://www.amazon.com/MBR0540-Diode-500mA-Surface-SOD123/C">https://www.amazon.com/MBR0540-Diode-500mA-Surface-SOD123/C</a>
16	\$0.34	4 pin header	1	CONN FEMALE 4POS .100" R/A TIN	<a href="https://www.digikey.com/en/products/detail/w-rth-elektronik/613004">https://www.digikey.com/en/products/detail/w-rth-elektronik/613004</a>
17	\$3.39	6-pin connector	1	6-pin connector for SiPM PCB	<a href="https://www.amazon.com/2-54mm-Straight-Shrouded-Header-Socket">Amazon\$3.39Molex Connector Type:Terminal Block Rohs Compliant: Yes</a>
18	\$7.59	6-pin header	1	6-pin header for Main PCB	<a href="https://www.amazon.com/2-54mm-Straight-Shrouded-Header-Socket">https://www.amazon.com/2-54mm-Straight-Shrouded-Header-Socket</a>
19	\$4.99	Reset button	1	SWITCH TACTILE SPST-NO 0.02A 15V	<a href="https://www.amazon.com/EVQ-PAG04M-Switch-Tactile-SPST-NO-0-02">https://www.amazon.com/EVQ-PAG04M-Switch-Tactile-SPST-NO-0-02</a>
20	\$9.82	BNC header	1	CONN BNC JACK R/A 50 OHM PCB	<a href="https://www.amazon.com/wlaniot-Bulkhead-Connector-Adapters-Ant">https://www.amazon.com/wlaniot-Bulkhead-Connector-Adapters-Ant</a>
21	\$1.08	Standoff for SiPM PCB	2	1/8" Hex Size, 3/8" Length, 0-80 Thread Size	<a href="https://www.mcmaster.com/catalog/131/3737/91780A027">https://www.mcmaster.com/catalog/131/3737/91780A027</a>
22	\$7.04	Standoff screws Main side	4	0-80 Thread Size, 5/16" Long	<a href="https://www.mcmaster.com/catalog/131/3493/91771A056">https://www.mcmaster.com/catalog/131/3493/91771A056</a>
23	\$7.48	Plastic scintillator screws	4	18-8 Stainless Steel, Number 0 Size, 5/16" Long	<a href="https://www.mcmaster.com/catalog/131/3415/92470A024">https://www.mcmaster.com/catalog/131/3415/92470A024</a>
24	\$2.59	DC-DC Booster	1	LT3461AES6#PBF	<a href="http://www.linear.com/product/LT3461A">http://www.linear.com/product/LT3461A</a>
25	\$3.70	Op-Amp	1	LT1807IS8#PBF	<a href="https://www.analog.com/en/products/lt1807.html">https://www.analog.com/en/products/lt1807.html</a>
27	\$9.99	Barrell Jack	1		<a href="https://www.amazon.com/gp/product/B00MJVIFS2/ref=ox_sc_act_tit">https://www.amazon.com/gp/product/B00MJVIFS2/ref=ox_sc_act_tit</a>
29	\$16.89	Arduino Nano	1	ATmega328 CH340G	<a href="https://www.ebay.com/itm/401796745510?var=0&amp;mkevt=1&amp;mkeid=1">https://www.ebay.com/itm/401796745510?var=0&amp;mkevt=1&amp;mkeid=1</a>
30	\$11.59	OLED screen	1	0.96" Inch I2c IIC OLED , 128x64	<a href="https://www.amazon.com/DiyMall-Serial-Display-Module-Arduino/dp/">https://www.amazon.com/DiyMall-Serial-Display-Module-Arduino/dp/</a>
34	\$65.65	SiPM	1	6x6mm SiPM MicroFC-60035-SMT	<a href="https://www.mouser.com/ProductDetail/onsemi/MICROFC-60035-SM">https://www.mouser.com/ProductDetail/onsemi/MICROFC-60035-SM</a>
38	\$36.72	Main PCB + SiPM PCB	1	2 layer, 10cm x 10cm, 1.6mm thickness, zipped files in PCB folder	<a href="https://www.etsy.com/ca/listing/1227748765/pcb-coasters-set-of-4-w">https://www.etsy.com/ca/listing/1227748765/pcb-coasters-set-of-4-w</a>
39		3d printed	1	Endplates	You can 3d print them, or send the .dxf files to Elecrow and have them
Total:					

\$241.32 291.82 for 2