

	Lora Weather Station Parts List			Ben Arnett	05/18/25			
	Quantity	Description	Dist. Part No	Price Ea.	Extended Cost	Running Total	Product Link	Datasheet / Reference Link
	2	Rylr993 Lora Module w/ antenna	B0B9XQ2822	\$23.00	\$46.00	\$92.00	https://www.amazon.com/REYAX-RYL993	https://reyax.com/products/RYL993
	3	Raspberry Pi Pico 2	6006	\$5.00	\$15.00	\$107.00	https://www.adafruit.com/product/6006	https://datasheets.raspberrypi.com/pico2/
	3	5v 1.2W solar panels	5368	\$14.95	\$44.85	\$151.85	https://www.adafruit.com/product/5368	
	1	BME688 - Temp, Humidity, Pressure, VOC	5046	\$19.95	\$19.95	\$171.80	https://www.adafruit.com/product/5046	
	1	PMSA003i Air Quality Breakout	4632	\$44.95	\$44.95	\$216.75	https://www.adafruit.com/product/4632	https://cdn-shop.adafruit.com/product-photos/4632.jpg
	1	Solar Charge Controller	B07MML4YJV	\$13.90	\$13.90	\$230.65	https://www.amazon.com/gp/product/B07MML4YJV	https://wiki.dfrobot.com/Solar_Charge_Controller
	1	5200mAh Lilon Battery 3.7v	B0CP7M4MY1	\$15.49	\$15.49	\$246.14	https://www.amazon.com/gp/product/B0CP7M4MY1	
	1	440pc M3 screw set	B0BMQFHD8H	\$9.99	\$9.99	\$256.13	https://www.amazon.com/gp/product/B0BMQFHD8H	
	2	Photo Transistor	2831	\$0.95	\$1.90	\$258.03	https://www.adafruit.com/product/2831	https://cdn-shop.adafruit.com/product-photos/2831.jpg
	1	Pico Terminal PiCowbell	5907	\$12.50	\$12.50	\$270.53	https://www.adafruit.com/product/5907	
	1	22ga Solid core hookup wire set	B09BFFJRST	\$16.99	\$16.99	\$287.52	https://www.amazon.com/gp/product/B09BFFJRST	
	1	M/F pin header kit	B0B973QQ8P	\$9.99	\$9.99	\$297.51	https://www.amazon.com/Ruibapa-Connector	
	1	Solder 0.8mm 50g	B075WB98FJ	\$7.19	\$7.19	\$304.70	https://www.amazon.com/gp/product/B075WB98FJ	
	1	M3 Threaded Heat Inserts	B09MTRHBRL	\$10.99	\$10.99	\$315.69	https://www.amazon.com/gp/product/B09MTRHBRL	
	1	1kg PETG Filament	33100	19.99	19.99	\$335.68	https://us.store.bambulab.com/products/petg-1kg	
	1	Solderable Breadboards	B09X1CV9ST	8.99	8.99	\$344.67	https://www.amazon.com/dp/B09X1CV9ST	
	1	USB-C Breakout Boards	B096M2HQLK	8.99	8.99	\$353.66	https://www.amazon.com/dp/B096M2HQLK	
	1	White LEDs	B07DYWC9YT	7.19	7.19	\$360.85	https://www.amazon.com/dp/B07DYWC9YT	
	1	HS-311 Servo	2589-31311S-ND	13.49	13.49	\$374.34	https://www.digikey.com/en/products/detail	
	1	16x2 LCD char. Display	B0D2L9JHLD	8.99	8.99	\$383.33	https://www.amazon.com/Interface-Backlight	
	1	Dupont Connector Kit	B01EV70C78	6.98	6.98	\$390.31	https://www.amazon.com/dp/B01EV70C78	
	1	Waterproofing Spray	52130847	7.98	7.98	\$398.29	https://www.walmart.com/ip/V-I-P-Silicone-Waterproofing-Spray	
	1	SeedStudio Xiao ESP32C6	113991254	5.2	5.2	\$403.49	https://www.seedstudio.com/SeedStudio-Xiao-ESP32C6	
	1	RYLR998 LoRa Module	B099RM1XMG	12.6	12.6	\$416.09	https://www.amazon.com/REYAX-RYL998	
		Tax + Shipping		\$80.17		\$496.26		