

STELLA-1 Parts List

Item	Description	Quantity	\$ line	Vendor	Part Number	Vendor URL	Alt vendor
0	Infrared Thermometer Sensor 35° FOV	1	25	Future Electronics	MLX90614ESF-BCC-000-TU	https://www.futureelectronics.com/p/semiconductors--analog--sensors--temperature/mlx90614esf-bcc-000-tu-melaxis-2532877	
1	Full size breadboard, for use as assembly fixture	1	6	Adafruit Industries		https://www.adafruit.com/product/239	
2	wire, solid, kit of 10 colors	1	30	Adafruit Industries		https://www.adafruit.com/product/3174	
3	solder, lead-free, SAC 305 alloy	1	18	Adafruit Industries		https://www.adafruit.com/product/1930	
5	Perma-Proto Circuit Board, Full Size	1	7	Adafruit Industries		https://www.adafruit.com/product/1606	
6	Header Pins, 36 positions, pack of 10	1	5	Adafruit Industries		https://www.adafruit.com/product/392	
7	Visible Spectrum Sensor (AS7262)	1	20	Adafruit Industries		https://www.adafruit.com/product/3779	
8	Pressure and Humidity Sensor (BME280)	1	15	Adafruit Industries		https://www.adafruit.com/product/2652	
9	Air Temperature Sensor (MCP9808)	1	5	Adafruit Industries		https://www.adafruit.com/product/1782	
11	Resistor, 10 kΩ, pk 25	1	1	Adafruit Industries		https://www.adafruit.com/product/2784	
12	Resistor, 100 Ω, pk 25	1	1	Adafruit Industries		https://www.adafruit.com/product/4293	
14	Super Bright Red LED (Light Emitting Diode), pk 25	1	8	Adafruit Industries		https://www.adafruit.com/product/297	
15	Heat Shrink Tubing (need only a small amount)	1	5	Adafruit Industries		https://www.adafruit.com/product/1649	
16	Tactile Pushbutton Switch + Cap, pk 15	1	6	Adafruit Industries		https://www.adafruit.com/product/1009	
18	Adalogue Data Logger FeatherWing	1	9	Adafruit Industries		https://www.adafruit.com/product/2922	
19	Stacking Headers, 12 position and 16 position	1	1	Adafruit Industries		https://www.adafruit.com/product/2830	
20	Feather RP2040 microcontroller	1	12	Adafruit Industries		https://www.adafruit.com/product/4884	
20	Lithium Ion Rechargeable Battery, Cylindrical	1	10	Adafruit Industries		https://www.adafruit.com/product/1781	https://www.digikey.com/en/products/detail/adafruit-industries-ltc/1781/5054543
22	Short headers for Feather (if these are out of stock...)	2	3	Adafruit Industries		https://www.adafruit.com/product/2940	
23	(...Buy these instead) Short headers for Pi Pico	2	3	Adafruit Industries		https://www.adafruit.com/product/5585	
25	2.4" TFT touch screen	1	30	Adafruit Industries		https://www.adafruit.com/product/2478	
26	TSC2007 Touch screen reader	1	5	Adafruit Industries		https://www.adafruit.com/product/5423	
27	CR1220 Clock Battery	1	1	Adafruit Industries		https://www.adafruit.com/product/380	
27	SD micro card, micro SD to full size SD adapter	1	10	Adafruit Industries		https://www.adafruit.com/product/1294	
28	micro SD to USB C adapter	1	7	Adafruit Industries		https://www.adafruit.com/product/5212	
31	USB cable, C	1	10	Adafruit Industries		https://www.adafruit.com/product/4199	
35	Optional: pushbutton for remote wired switch, pk 5	1	8	Adafruit Industries		https://www.adafruit.com/product/4431	
36	Optional: cable for remote wired switch	1	1	Adafruit Industries		https://www.adafruit.com/product/4336	
40	Near Infrared Spectrum Sensor (AS7263)	1	28	SparkFun Electronics	SEN-14351	https://www.sparkfun.com/products/14351	
41	Mini Protoboard	1	4	SparkFun Electronics	PRT-12702	https://www.sparkfun.com/products/12702	
50	Desoldering braid	1	2	Digi-Key	315-SOLDERWICK2.0-ND	https://www.digikey.com/en/products/detail/chip-quik-inc/SOLDERWICK2-0/14636561	
51	Capacitor, 10uF 25V	1	1	Digi-Key	C15799CT-ND	https://www.digikey.com/en/products/detail/panasonic-electronic-components/EEA-GA1E100H/2513301	
52	Push-on, push-off type power switch	1	2	Digi-Key	CW181-ND	https://www.digikey.com/en/products/detail/cw-industries/GPTS203211B/3190590	
60	Optional: Connector for remote wired switch	1	1	Newark	B3B-PH-K-S(LF)(SN)	https://www.newark.com/jst-japan-solderless-terminals/b3b-ph-k-s-lf-sn/wire-board-connector-header-3/dp/37K9946	
Total			300				