

Air Mapper Parts List

Item	Qty	PN	Desc	From	Price Ea	Price Sub
1	1	H01501020-US-1	Powerizer Battery Charger	Amazon	\$23.75	\$23.75
2	1	2050	Adafruit 3.5" Touchscreen Display	Adafruit	\$39.95	\$39.95
3	1	206429-1	Amp Power Plug	Digikey	\$4.20	\$4.20
4	1	206430-1	Amp Power Socket	Digikey	\$3.31	\$3.31
5	2	1-66100-9	Amp Female Pins	Digikey	\$0.57	\$1.14
6	2	1-66098-8	Amp Male Pins	Digikey	\$0.56	\$1.12
7	1	1201M1S3CQE2	C&K Power Switch	Mouser	\$7.64	\$7.64
8	1	1713	Adafruit Electret Mic PCB	Adafruit	\$7.95	\$7.95
9	1	MT1403-RG-A	Marktech Optoelectronics, LED	Digikey	\$0.30	\$0.30
10	1	385	Adsong Temp/RH Sensor	Adafruit	\$9.95	\$9.95
11	1	V7805-2000	CUI Inc, Voltage Regulator	Digikey	\$10.84	\$10.84
12	1	50	Arduino Uno R3	Adafruit	\$24.95	\$24.95
13	1	OPC-N2	Alphasense Optical Particle Monitor	Alphasense	\$387.00	\$387.00
14	1	NF-A4X10	Noctua Cooling Fan	Amazon	\$13.95	\$13.95
15	1	746	Adafruit Ultimate GPS Breakout, ver 3	Adafruit	\$39.95	\$39.95
16	1	COZIR-WV-5	GSS CO2 Sensor	CO2Meter.com	\$109.99	\$109.99
17	1	255	ChronoDot Clock	Adafruit	\$17.50	\$17.50
18	1	191	Arduino Mega R3	Adafruit	\$45.95	\$45.95
19	1	8.4v 5000mAh	Venom Battery	Amazon	\$41.15	\$41.15
20	1	851	SMA to u.FL adapter cable	Adafruit	\$3.95	\$3.95
21	1	960	GPS Active Antenna	Adafruit	\$12.95	\$12.95
22	1	A32515-ND	Backshell w/ clamp for 206429	Digikey	\$5.36	\$5.36
23	1	90480A007	6-32 x 5/16, Hex Nut, 4 required, sold by the box	McMaster-Carr	\$1.24	\$1.24
24	1	92745A320	4-40 x 1/4, Hex Stand-Off, 4 required, sold by the box	McMaster-Carr *	\$12.98	\$12.98
25	1	90272A108	4-40 x 3/8, Pan Head Screw, 8 required, sold by the box	McMaster-Carr	\$1.60	\$1.60
26	1	90272A106	4-40 x 1/4, Pan Head Screw, 14 required, sold by the box	McMaster-Carr	\$1.46	\$1.46
27	1	90272A146	6-32 x 3/8, Pan Head Screw, 4 required, sold by the box	McMaster-Carr	\$2.12	\$2.12
28	1	90272A107	4-40 x 5/16, Pan Head Screw, 4 required, sold by the box	McMaster-Carr	\$1.52	\$1.52
29	1	90272A103	4-40 x 1/8, Pan Head Screw, 2 required, sold by the box	McMaster-Carr	\$8.78	\$8.78
30	1	90272A151	6-32 x 3/4, Pan Head Screw, 4 required, sold by the box	McMaster-Carr	\$3.00	\$3.00
31	1	90272A143	6-32 x 3/16, Pan Head Screw, 2 required, sold by the box	McMaster-Carr	\$1.89	\$1.89
32	1	71295K62	4 inch, grey cable tie, 1 required, sold in packs of 100	McMaster-Carr	\$2.20	\$2.20
33	1	90273A148	6-32 x 1/2, Flat Head Screw, 6 required, sold in packs of 100	McMaster-Carr	\$3.71	\$3.71
34	1	CONSMMA007-ND	SMA Connector for antenna cable	Digi-Key	\$2.23	\$2.23
35	2	2822	2x20, Double Pin Header	Adafruit	\$0.95	\$1.90

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36	1	392	36 pin Male header, 5 required, sold in packs of 10	Adafruit	\$4.95	\$4.95
37	1	1540	36 pin Right Angle Male Header, 1 required, sold in packs of 10	Adafruit	\$5.95	\$5.95
38	2	445-8465-ND	10ufd Capacitor	Digikey	\$1.06	\$2.12
39	1	3M15374	Heat Shrink Kit, several sizes needed, kit covers entire range	Digikey	\$70.38	\$70.38
40	1	WM14889	Ribbon Cable, 2 conductor, several pieces needed, sold in 100' roll	Digikey	\$26.80	\$26.80
41	1	MD12R-25-ND	Ribbon Cable, 12 conductor, several pieces needed, sold in 25' pcs	Digikey	\$28.49	\$28.49
42	1	SDC10G2/16GB	16 gig, class 10, micro SD card	Adorama	\$5.95	\$5.95
43	2	PAT1.00KBCT-ND	1.0K Resistor	Digikey	\$0.89	\$1.78
44	1	PLT1206-500ACT-ND	500 ohm resistor, need 1, sold in a cut tape pkg	Digikey	\$5.49	\$5.49
45	2	WM11860-ND	Male Pin Header	Digikey	\$2.50	\$5.00
46	2	WM11567-ND	Female Connector Housing	Digikey	\$0.43	\$0.86
47	8	WM11561CT-ND	Pins for Female Connector WM11567-ND	Digikey	\$0.28	\$2.24
48	1	WM2902-ND	4 pin rectangular housing	Digikey	\$0.27	\$0.27
49	4	WM2510CT-ND	Pins for rectangular housing	Digikey	\$0.13	\$0.52
50	1	C2016Y-100-ND	Yellow hookup wire, 22 ga, sold in 100ft rolls	Digikey	\$20.08	\$20.08
51	1	C2016G-100-ND	Green hookup wire, 22ga, sold in 100ft rolls	Digikey	\$20.08	\$20.08
52	1	C2016R-100-ND	Red hookup wire, 22ga, sold in 100ft rolls	Digikey	\$20.08	\$20.08
53	1	C2016B-100-ND	Black hookup wire, 22ga, sold in 100ft rolls	Digikey	\$20.08	\$20.08
54	1	C2102B-50-ND	Black hookup wire, 20ga, sold in 50ft rolls	Digikey	\$16.37	\$16.37
55	1	C2102R-50-ND	Red hookup wire, 20ga, sold in 50ft rolls	Digikey	\$16.37	\$16.37
56	7	A26963-ND	2 position, Rectangular Housing Connector	Digikey	\$0.53	\$3.71
57	50	A25993CT-ND	Contact Crimp Socket	Digikey	\$0.1866	\$9.33
58	25	A26962-ND	Single Position, Rectangular Housing Connector	Digikey	\$0.679	\$16.98
59	1	Q361-ND	USB cable, Type A to Type B, 3 ft long	Digikey	\$2.15	\$2.15
60	1	1018	ADXL 326 Accelerometer	Adafruit	\$17.95	\$17.95
61	10	SAM1196-50-ND	Samtec, SSQ-150-03-G-D, Double Row, Feed Thru Header	Digikey	\$13.80	\$137.96
62	10	SAM1198-50-ND	Samtec, SSQ-150-03-G-S, Single Row, Feed Thru Header	Digikey	\$8.11	\$81.09
					Total	\$1,400.51

* Recommended for modification of original mounting system for Mega PCB