

Antenna Rotator Controller II Materials List

Part	Qty	Description	Part Number	Source	Unit Price	Ext. Price
U1	1	Microcontroller, 24-Pin DIP, Cubloc CB220	U01002	comfiletech.com	\$34.00	\$34.00
U2-U3	2	IC, I2C Bus Extender, 8-Pin DIP, Philips P82B715	C7-P82B715	comfiletech.com	\$5.00	\$10.00
U4	1	Voltage Regulator, TO-220, 12V@1A	511-L7812ACV	mouser.com	\$0.72	\$0.72
U5	1	Voltage Regulator, TO-220, 5V@1A	511-L7805ACV	mouser.com	\$0.67	\$0.67
M1	1	Keypad Module, 4x4, Cubloc	P02007	comfiletech.com	\$35.00	\$35.00
M2	1	Keypad Controller Module, Cubloc	U07008	comfiletech.com	\$19.00	\$19.00
M3	1	Compass Module, Daventech CMPS03	RB-Dev-03	robotshop.com	\$54.00	\$54.00
DS1	1	Display, LCD, 20x4, Cubloc CLCD420-B	D08001	comfiletech.com	\$49.00	\$49.00
T1	1	Transformer, Primary 115/230VAC, Sec. 24VAC CT@2A	553-F345X	mouser.com	\$15.62	\$15.62
T2	1	Transformer, Current, 10A	553-CST-1010	mouser.com	\$6.11	\$6.11
K1, K2	2	Relay, 12VDC, SPDT, 10A Contacts	893-812H1CS12VDC	mouser.com	\$1.28	\$2.56
Q1-Q2	2	Transistor, NPN, 2N3904	610-2N3904	mouser.com	\$0.10	\$0.20
D1	1	Diode Bridge, 1A	583-DB107	mouser.com	\$0.56	\$0.56
D2-D3	2	Diode, 1N4007	512-1N4007	mouser.com	\$0.22	\$0.44
D4-D7	4	Diode, 1N4148	512-1N4148	mouser.com	\$0.03	\$0.12
S1	1	Switch, Toggle, DPDT	108-1MD1T2B3M1QE-EVX	mouser.com	\$2.55	\$2.55
S2	1	Switch, Toggle, SPDT	108-1MS1T2B3M1QE-EVX	mouser.com	\$1.90	\$1.90
S3	1	Switch, Pushbutton, Momentary	653-B3F-1022	mouser.com	\$0.22	\$0.22
S4-S5	2	Switch, Pushbutton, Momentary	633-FB15ANEP2	mouser.com	\$3.48	\$6.96
	2	Switch Cap, Black	633-AT496A	mouser.com	\$0.32	\$0.64
F1	1	Fuse Holder, 3AG	441-R3-13-GRX	mouser.com	\$2.00	\$2.00
	3	Fuse, 1A	576-0312001.HXP	mouser.com	\$0.22	\$0.66
	2	Heatsink, TO-220	707-821902BPT	mouser.com	\$2.34	\$4.68
C1	1	Capacitor, Electrolytic, 1000uF@50V	140-XRL50V1000-RC	mouser.com	\$0.70	\$0.70
C2-C3	2	Capacitor, Electrolytic, 1uF@50V	140-XRL50V1.0-RC	mouser.com	\$0.06	\$0.12
C4	1	Capacitor, Electrolytic, Non-Polarized, 160uF@125VAC	598-PSU14515	mouser.com	\$10.89	\$10.89
C5-C10	6	Capacitor, Ceramic, 0.01@50V	581-SR215C103JAR	mouser.com	\$0.36	\$2.16
R1-R5, R12, R13	7	Resistor, Metal Film, 1/4W, 4.7K	271-4.7K-RC	mouser.com	\$0.13	\$0.91
R6-R7	2	Resistor, Metal Film, 1/4W, 330	271-330-RC	mouser.com	\$0.13	\$0.26
R8-R9	2	Resistor, Metal Film, 1/4W, 10K	271-10K-RC	mouser.com	\$0.13	\$0.26
R10-R11	2	Resistor, Metal Film, 1/4W, 1K	271-1K-RC	mouser.com	\$0.13	\$0.26
DS2	1	LED, Red	645-561-2101-070F	mouser.com	\$0.78	\$0.78
J1	1	Connector, DB-9, Female, Chassis Mount	152-5109	mouser.com	\$2.72	\$2.72
J2	1	Connector, XLR, 3-Pin, Female, Chassis Mount	565-5113A	mouser.com	\$2.82	\$2.82
J3	1	Connector, XLR, 5-Pin, Female, Chassis Mount	565-6854	mouser.com	\$3.10	\$3.10
P2	1	Connector, XLR, 3-Pin, Male Plug	565-6851	mouser.com	\$1.57	\$1.57
P3	1	Connector, XLR, 5-Pin, Male Plug	565-5126A	mouser.com	\$4.09	\$4.09
TB1-TB4	4	Terminal Block, 3 Contact, PCB Mount	158-P02EK381V3-E	mouser.com	\$0.88	\$3.52
TB5-TB6	3	Terminal Block, 4 Contact, PCB Mount	158-P02EK381V4-E	mouser.com	\$1.16	\$3.48
	1	Enclosure, Azimuth Sensor, Weatherproof	546-1555EGY	mouser.com	\$8.85	\$8.85
	1	Socket, 24-Pin DIP	575-11044624	mouser.com	\$1.58	\$1.58
	2	Socket, 8-Pin DIP	575-893308	mouser.com	\$0.91	\$1.82
	1	Cable, Rotator, 3-Conductor, 20 AWG, Radio Shack, 100 ft.	15-1150	radioshack.com	\$22.99	\$22.99
	1	Cable, Twisted-Shielded 2-Pair, Alpha 5472C, 100 ft	602-5472C-100	mouser.com	\$55.57	\$55.57
	2	Strain Relief, Controller Enclosure, Heyco	836-3210	mouser.com	0.89	\$1.78
	2	Strain Relief, Sensor Enclosure, Heyco	836-3207	mouser.com	\$0.85	\$1.70
	8	Standoff, Hex, 0.25x0.50, Aluminum	534-2203	mouser.com	\$0.48	\$3.84
	1	Chassis, 7" x 5" x 2"	563-AC-402	mouser.com	\$10.90	\$10.90
	1	Chassis Bottom Plate, 7" x 5"	563-BPA-1589	mouser.com	\$4.90	\$4.90
	1	Front Panel, 8.4"H x 5.75"W	546-1550G	mouser.com	\$23.60	\$23.60
	1	PCB, Main		expresspcb.com	\$51.00	\$51.00
	1	PCB, Sensor		expresspcb.com	\$51.00	\$51.00
	1	V-Saddle Clamp, 1 to 2"	DXE-CAVS-2P	dxengineering.com	\$11.95	\$11.95
	2	Rotator, Part # M-61415	M-61415	summitsource.com	\$44.95	\$89.90
				Total:		\$626.63