



Bill Of Materials

Designator(s)	Type	Variant	Value	Qty	Price	Extended	Supplier	Part#
Plugs, sockets and terminals								
P1, P2, P4, P8, P9A	PCB Header	6-Way	-	5	\$0.20	\$1.00	Altronics	P5496
P5A, P6A, P7A	PCB Header	3-Way	-	3	\$0.20	\$0.60	Altronics	P5493
P5B, P6B, P7B	Header crimp housing	3-Way	-	3	\$0.75	\$2.25	Altronics	P5473
P9B, others implied	Header crimp housing	6-Way	-	5	\$1.00	\$5.00	Altronics	P5476
ST1, ST2, ST3, others implied	Screw Terminal	2-Way	-	7	\$1.00	\$7.00	Altronics	P2032A
ST4, ST5, ST6, others implied	Screw Terminal	3-Way	-	4	\$1.35	\$5.40	Altronics	P2032A
Total:						\$21.25		

Designator(s)	Type	Variant	Value	Qty	Price	Extended	Supplier	Part#
Capacitors, Resistors and other passive components								
HUGE_C1	Capacitor	Electrolytic	1-Farad	1	\$40.00	\$40.00	Altronics	C9652A
C24, C26	Capacitor	RB Electrolytic	10,000uF/40v	2	\$8.00	\$16.00	Altronics	R5601
C25, C27	Capacitor	RB Electrolytic	1,000uF/35v	2	\$1.65	\$3.30	Altronics	R5185
C16, C17, C18, C19	Capacitor	RB Electrolytic	470uF/25v	4	\$0.85	\$3.40	Altronics	R5164
C14	Capacitor	SMD Tantalum	100uF/10v	1	\$1.15	\$1.15	Jaycar	RZ6556
C21	Capacitor	SMD Tantalum	47uF/16v	1	\$1.15	\$1.15	Jaycar	RZ6574
C3	Capacitor	SMD Tantalum	10uF/6.3v	1	\$0.40	\$0.40	Jaycar	RZ6541
C20	Capacitor	0603 Ceramic	0u47 (substitute)	1	\$0.18	\$0.18	Altronics	R8847
C4→C11,C15, C28	Capacitor	0603 Ceramic	0.1uF	10	\$0.12	\$1.20	Altronics	R8835
C23, C29	Capacitor	0603 Ceramic	0.01uF	2	\$0.12	\$0.24	Altronics	R8817
C12	Capacitor	0603 Ceramic	2.2nF (substitute)	1	\$0.12	\$0.12	Altronics	R8799
C1,C2	Capacitor	0603 Ceramic	10pF	2	\$0.12	\$0.24	Altronics	R8724
R2, R3, R7, R9	Resistor	0603 Metal Film	100k	4	\$0.01	\$0.04	Altronics	R1740
R4, R6, R8, R24, R25, R31, R34	Resistor	0603 Metal Film	10k	7	\$0.01	\$0.07	Altronics	R1668
R11	Resistor	0603 Metal Film	8k2	1	\$0.01	\$0.01	Altronics	R1662
R10	Resistor	0603 Metal Film	5k6	1	\$0.01	\$0.01	Altronics	R1650
R1	Resistor	0603 Metal Film	4k7	1	\$0.01	\$0.01	Altronics	R1644
R5, R20, R21, R30, R33	Resistor	0603 Metal Film	1k	5	\$0.01	\$0.05	Altronics	R1596
R22, R23, R32	Resistor	0603 Metal Film	820R	3	\$0.01	\$0.03	Altronics	R1590
R26→R29	Resistor	Wire-Wound	4R7/10W	4	\$1.85	\$7.40	Jaycar	RR3348
VR1→VR4	Variable Resistor	Horizontal Trimpot	20k	4	\$0.98	\$3.92	Jaycar	RT4362
VR5→VR7	Variable Resistor	Linear Pot	50k (substitute)	3	\$3.25	\$9.75	Jaycar	RP8516
S1, S2	Tactile Switch	-	-	2	\$1.25	\$2.50	Jaycar	SP0609
L1	Inductor (Power)	SMD WireWound	1A	1	\$0.74	\$0.74	RS-Components	604-4438

Total: \$91.91

Designator(s)	Type	Variant	Value	Quantity	Price	Extended	Supplier	Part#
Integrated Circuits, FETs and other Semiconductors								
Q5, Q6, Q9→Q12	MOSFET	Hexfet	ID=209Amps	6	\$12.00	\$72.00	RS-Components	543-1500
Q7, Q8, Q13	Transistor	PNP (SOT223)	1.5A	3	\$0.33	\$0.99	RS-Components	544-9387
Q3, Q4	Transistor	NPN (SOT23)	100mA	2	\$0.21	\$0.42	RS-Components	287-392
Q1, Q2, Q20	Transistor	PNP (SOT23)	100mA	3	\$0.07	\$0.20	RS-Components	544-9422
D2, D3	Diode (Rectifier)	Schottky	2A	1	\$0.89	\$0.89	Farnell AU	8647836
D1	Diode (Signal)	High Speed	200mA	1	\$0.05	\$0.05	Farnell AU	9843710
U9	Darlington Array	SMD (SOIC16)	-	1	\$0.84	\$0.84	RS-Components	858-196
LINREG1	Linear LDO regulator	SMD (SOT23-5)	150mA	1	\$0.60	\$0.60	Microchip Direct	TC1017-3.3VCTTR
SWMREG1	Switchmode Regulator	SMD (DD-7)	4.5A	1	\$7.10	\$7.10	Linear Direct	LT1374CFE
dsPIC	16Bit MicroController	SMD (TQFP64)	-	1	\$7.20	\$7.20	Microchip Direct	33FJ128GP206
BR3	Bridge Rectifier	Through-Hole	2A	1	\$0.57	\$0.57	Dick Smith	Z3304
BR2	Bridge Rectifier	HIGH SURGE	50A	1	\$19.95	\$19.95	Dick Smith	Z3350
Y1	Crystal Oscillator	Quartz SMD	16MHz	1	1.33	\$1.33	Farnell AU	7940920
Total:						\$112.14		