

Item	Component / Description	Value	Manuf	Manuf Part No	Distrib	Distrib Part No	Reference	Qty	Price ea.	Extended
1	IC Voltage Regulator 5V @ 1A 7805		Micro Commercial	MC7805CT-BP	Digi-Key	MC7805CT-BPMS-ND	U3	1	\$ 0.40	\$ 0.40
2	IC Voltage Regulator 3.3V @ .5A LM1117		National	LM1117T-3.3/NOPB	Digi-Key	LM1117T-3.3-ND	U4	1	\$ 1.67	\$ 1.67
3	IC RS-232 Transceiver LVTTTL		Intersil	ICL3232IBNZ	Digi-Key	ICL3232IBNZ-ND	U1, U2	2	\$ 1.48	\$ 2.96
4	IC CAN CONTROLLER		Microchip	MCP2515-I/SO	Digi-Key	MCP2515-I/SO-ND	U7	1	\$ 2.98	\$ 2.98
5	IC CAN Transceiver		Microchip	MCP2551-I/SN	Digi-Key	MCP2551-I/SN-ND	U8	1	\$ 1.45	\$ 1.45
6	IC OPAMP QUAD 1.8-6V		Microchip	MCP6004-I/SL	Digi-Key	MCP6004-I/SL-ND	U6, U9	2	\$ 0.72	\$ 1.44
7	IC MCU PIC32MX360		Microchip	PIC32MX360F512L-80I/PT	Digi-Key	PIC32MX360F512L-80I/PT-ND	U11	1	\$ 12.15	\$ 12.15
8	IC OPTOCOUPLER 4CH 600%		Vishay	TCET4100	Digi-Key	751-1371-5-ND	U5, U10	2	\$ 1.64	\$ 3.28
9	IC QUAD AND GATE LVTTTL		Texas Instruments	SN74LVC08AD	Digi-Key	296-1697-5-ND	U12	1	\$ 0.43	\$ 0.43
10	Tranistor N Channel FET		Zetex	2N7002TA	Digi-Key	2N7002CT-ND	Q2	1	\$ 0.26	\$ 0.26
11	Tranistor P Channel FET		Panasonic	2SJ067400L	Digi-Key	2SJ067400LCT-ND	Q1	1	\$ 0.43	\$ 0.43
12	Tranistor N Channel Power MOSFET		Fairchild	FDS3692	Digi-Key	FDS3692CT-ND	Q3-Q18	16	\$ 0.88	\$ 14.08
13	DIODE SCHOTTKY 100V 3A SMC		ON Semiconductor	MBRS3100T3G	Digi-Key	MBRS3100T3GOSCT-ND	D1-D16	16	\$ 0.57	\$ 9.12
14	DIODE ZENER 1W 8.2V SMA		Diodes Inc	SMAZ8V2-13-F	Digi-Key	SMAZ8V2-FDICT-ND	D17	1	\$ 0.56	\$ 0.56
15	VARITOR TVS 18VDC 100A		AVX	VC080518C400	Digi-Key	478-2512-1-ND	TVS1-TV58	8	\$ 0.46	\$ 3.68
16	Cap, Ceramic	.1uF	AVX	08055C104KAT2A	Digi-Key	478-1395-1-ND	C1-C4, C6-C12, C14-C21, C24, C25, C27	19	\$ 0.09	\$ 1.67
17	Cap, Ceramic	1uF	AVX	08053C105K4T2A	Digi-Key	478-4527-1-ND	C13	1	\$ 1.22	\$ 1.22
18	Cap, Ceramic	10uF	AVX	0805YD106KAT2A	Digi-Key	478-5165-1-ND	C5	1	\$ 0.61	\$ 0.61
19	Cap, Ceramic	22pF	AVX	08055A220JAT2A	Digi-Key	478-1308-1-ND	C23,C26	2	\$ 0.08	\$ 0.17
20	Resistor, Zero Ohm (jumper)	0	Panasonic	ERJ-6GEY0R00V	Digi-Key	P0.0ACT-ND	R31, R32, R39, R44, R50, R56	6	\$ 0.08	\$ 0.46
21	Resistor, 1/8W 1%	1K	Panasonic	ERJ-6ENF1001V	Digi-Key	P1.00KCCT-ND	R1, R2, R3, R4, R5, R6, R26, R30, R36, R37, R38, R45, R53, R57, R63, R67, R71, R74	18	\$ 0.09	\$ 1.64
22	Resistor, 1/8W 1%	1M	Panasonic	ERJ-6GEYJ105V	Digi-Key	P1.0MACT-ND	R7, R8, R15, R16, R27, R28, R35, R40, R47, R54	10	\$ 0.08	\$ 0.77
23	Resistor, 1/8W 1%	10K	Panasonic	ERJ-6ENF1002V	Digi-Key	P10.0KCCT-ND	R75	1	\$ 0.09	\$ 0.09
24	Resistor, 1/8W 1%	140K	Panasonic	ERJ-6ENF1403V	Digi-Key	P140KCCT-ND	R46, R60	2	\$ 0.09	\$ 0.18
25	Resistor, 1/8W 1%	150	Panasonic	ERJ-6ENF1500V	Digi-Key	P150CCT-ND	R25, R34, R43, R52, R59, R65, R69, R73	8	\$ 0.09	\$ 0.73
26	Resistor, 1/8W 1%	169K	Panasonic	ERJ-6ENF1693V	Digi-Key	P169KCCT-ND	R9, R10, R11, R12, R13, R14	6	\$ 0.09	\$ 0.55
27	Resistor, 1/8W 1%	330	Panasonic	ERJ-6ENF3300V	Digi-Key	P330CCT-ND	R24, R33, R42, R51, R58, R64, R68, R72	8	\$ 0.09	\$ 0.73
28	Resistor, 1/8W 1%	330K	Panasonic	ERJ-6ENF3303V	Digi-Key	P330KCCT-ND	R17, R18, R19, R20, R21, R22, R49, R62	8	\$ 0.09	\$ 0.73
29	Resistor, 1/8W 1%	510	Panasonic	ERJ-6ENF5100V	Digi-Key	P510CCT-ND	R23, R29, R41, R48, R55, R61, R66, R70	8	\$ 0.09	\$ 0.73

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30	Ceramic Resonator	8MHz	Murata	CSTCE8M00G55Z-R0	Digi-Key	490-1219-1-ND	Y1, Y3	2	\$ 0.53	\$ 1.06
31	Crystal, RTC	32.768KHz	Abracon Corporation	AB38T-32.768KHZ	Digi-Key	535-9034-ND	Y2	1	\$ 0.25	\$ 0.25
32	FUSE MINI ATO	5A	Littlefuse	0297005.WXNV	Digi-Key	F989-ND	F1	1	\$ 0.73	\$ 0.73
33	FUSEHOLDER MINI ATO		Keystone (Fuseholder)	3544-2	Digi-Key	3544-2K-ND	F1 (Holder)	1	\$ 0.95	\$ 0.95
34	Jumper Header .100 Centers, Single Row		Tyco	9-146280-0	Digi-Key	A32701-40-ND	JP3-JP10 (header)	1	\$ 2.64	\$ 2.64
35	Shunt (Suitcase Jumper)		Tyco	382811-9	Digi-Key	A26230-ND	JP3-JP10 (jumper)	10	\$ 0.18	\$ 1.80
36	Terminal Block, 3 pos, Power in		Wiedmuller	1760520000	Digi-Key	281-1883-ND	CONN1	1	\$ 0.71	\$ 0.71
37	Terminal Block, 2 pos, CAN Data		Weidmuller	1760510000	Digi-Key	281-1882-ND	CONN4	1	\$ 0.48	\$ 0.48
38	Header, 10 pos, .100x2 row, RS-232 Ports		3M	N2510-6002RB	Digi-Key	MHC10K-ND	CONN2, CONN3	2	\$ 1.37	\$ 2.74
39	Header, 20 pos, .100x2r, Horiz, Outputs		3M	D2520-5002-AR	Digi-Key	MHE20E-ND	CONN6, CONN7	2	\$ 1.37	\$ 2.74
40	Header, 20 pos, .100x2 row, Vert, Inputs		3M	D2520-6002	Digi-Key	MHC20E-ND	CONN5	1	\$ 1.23	\$ 1.23
41	Header, 6 pos, .100x2 row, Vert, Prog		FCI	67997-106HLF	Digi-Key	609-3393-ND	J10	1	\$ 2.25	\$ 2.25
42	PCB REMS 324C.001 Rev.X		Advanced Circuits	324C.001 Rev.X	Advanced Circuits	324C.001 Rev.X	PCB	1		\$ -

Parts Total \$ 82.74

Parts Count Total 178