

		Digi-Key#	
U1	PIC18F2420 microcontroller	----	
U2,U3	74HC174 hex register	296-1579-5	\$1.00
U4	CD4052 analog switch	296-2058	\$0.57
U5	LP2950ACZ-5.0 voltage regulator	LP2950ACZ-5.0GOS	\$0.74
U6	LTC1658 14-bit serial input DAC	LTC1658CN8	\$11.96
U7	LM311 comparator	LM311N	\$0.83
U8	TL072 dual FET input op amp	296-14997-5	\$0.69
U9	7805A voltage regulator	497-2947-5	\$0.51
U10	CD4016 quad analog switch	296-2036	\$0.49
U11	4558 dual op amp	296-1414-5	\$0.46
D1-D4	1N4148 switching diode	1N4148FS	\$0.40
D5	BAT48 schottky diode	497-2512-1	\$0.40
D6	1N4001 rectifier diode	1N4001RLGOSCT	\$0.21
C1-C3,C5,C7, C8,C11,C16	0.1 uF, 25 or 50V ceramic cap	BC1148CT	\$1.73
C4	100 pF ceramic cap	BC1013CT	\$0.26
C6	0.047 uF ceramic cap	BC1082CT	\$0.23
C9	4.7 uF, 16V electrolytic cap	493-10470-1-ND	\$0.23
C10,C15	1 uF, 50V electrolytic cap	493-6047-ND	\$0.22
C12,C13	22 pF, 50V ceramic cap	BC1005CT	\$0.52
C14	0.01 uF ceramic cap	BC1078CT	\$0.24
R1-R3,R6	10K, 1/4W, 5% resistor	10KQBK	\$0.40
R4,R9	47K, 1/4W, 5% resistor	47KQBK	\$0.20
R5,R7	Not installed		
R8	3.3M, 1/4W, 5% resistor		\$0.10
R10	On V1.1 board, 1K 5% resistor On V1.0 board, not installed	1.0KQBK	
R11,R12	1K, 1/4W, 5% resistor	1.0KQBK	\$0.20
R13	680K, 1/4W, 5% resistor	680KQBK	\$0.10
R14-R16	100 ohm, 1/4W, 5% resistor	100QBK	\$0.30
R17	220K, 1/4W, 5% resistor	220KQBK	\$0.10
R18	4.7K, 1/4W, 5% resistor	4.7KQBK	\$0.10
R19	2.2K, 1/4W, 5% resistor	2.2KQBK	\$0.10
R20	47 ohm, 1/4W, 5% resistor	47QBK	\$0.10
R21,R22	22K, 1/4W, 5% resistor	22KQBK	\$0.20
R23,R25	100K, 1/4W, 5% resistor	100KQBK	\$0.20
R24	wire jumper		
R26	Only on V1.1 board, 470 ohm 5%	470QBK	
X1	10.0 MHz crystal, 20pF	XC1923	\$0.60
P1	4-pos rt angle header, 0.156"	WM5237	\$2.12
S1	4-pos connector housing, 0.156"	WM2102-ND	\$0.22
	4 crimp pins for above conn	WM2301-ND	\$0.76
H5-H8	8-pos header, 0.1" pitch	S1211E-36	\$2.10
J1	3mm stereo audio jack, SJ1-3553	CP1-3553NG	\$0.88
SW1-SW3	Pushbutton switch, E-switch	EG5805	\$5.76
ENC1	PEC11R-4220F-N0024, encoder	PEC11R-4220F-N0024	\$1.68
LCD1	LCD-20x4BW, www.gravitech.us		\$17.95
H2,H3	16-pos header, 0.1" pitch	S1011E-36	\$2.10
J2,J3	16-pos female header, 0.1" pitch	S7049	\$2.04

Approximate parts cost minus PIC chip, pcb, standoffs, etc.

\$60.00