

Table 1

Reference	QTY	Description	Digikey Part No.
C1	1	0.22 uF electrolytic capacitor, 50 VDC, generic	732-8848-1-ND
C2, C3	2	1.0 uF electrolytic capacitor, 50 VDC, generic	493-14724-1-ND
C4	1	100 uF electrolytic capacitor, 50 VDC, generic	P5182-ND
D1, 2, 3, 4	4	LED, one each, red, green, yellow, orange, generic (see text)	
ENC1, 2	2	Incremental encoder with detent, 6mm shaft	987-1188-ND
J1, 5	1	2-position header, male, 0.1-in. pitch, generic (optional)	900-0022232021-ND
J2, 3, 4, 6, 7, 8	6	3-position header, male, 0.1-in. pitch, generic (optional)	WM4201-ND
J1-8	25	Female crimp connector	WM1114-ND
J9	2	Header pin (male) strips, 40-pin, 0.1-in. pitch, generic	WM1114-ND
LS1	1	Small, 8-ohm speaker, generic (optional)	668-1119-ND
P1, 5	2	2-position plug, female, 0.1-in. pitch, generic (optional)	900-0022013027-ND
P2, 3, 4, 6, 7, 8	3	3-position plug, female, 0.1-in. pitch, generic (optional)	900-0022013037-ND
PJ1	1	Headphone jack with switch, 3.5 mm (or to suit your headphones)	CP-3502MJ-ND
R1	1	150-ohm, 1/4-W, Carbon-film resistor, 5%, generic	
R2, R3	2	100-kohm, 1/4-W, Carbon-film resistor, 5%, generic	
R4--R7	4	330-ohm, 1/4-W, Carbon-film resistor, 5%, generic	
R8	1	10 kohm potentiometer, linear taper, 1/4-in shaft, generic	
SJ1	1	Stereo jack, 1/4-in. generic, or other (connect to paddle as appropriate)	
SW1, 2, 4, 5	1	5-position DIP switch, SPST, Alcoswitch or equivalent (ON-OFF)	450-1405-ND
SW6	1	Switch, miniature, SPST, panel mount, solder lugs, generic	
SW7, 8	2	Pushbutton, miniature, SPST, normally open, generic (OFF-(ON))	
U1	1	LM4875 Amplifier, SOIC, Texas Instruments	296-35282-1-ND
U2	1	CY8CKIT-059 Cypress Semiconductor PSoC 5LP Prototyping Kit (Note 1)	428-3390-ND
USB1	1	USB cable, Micro C connector to connector for your application	
USB2	1	USB cable, Type-A plug to Type-A Jack (CY8CKIT module to programming PC)	
Misc		Wire, knobs, enclosure, etc.	
		Note 1. \$10 if ordered direct from Cypress Semiconductor.	