

Item #	Part Description	Part #	Supplier	Manufacturer's PN	QTY Needed	Price Per Unit	Total Unit Price for one device	Total price for 5000 units	Notes
Backpiece Module									
	IC Charge Management Multichem 8-SOIC	296-9314-5-ND	Digikey	BQ2000SN-B5	1	3.97	3.97		
	IC Voltage Reg TSOT23-6	296-17151-1-ND	Digikey	TPS61070DDCR	1	2.07	2.07		
	USB AB Connector Receptacle SMT	H11611CT-ND	Digikey	ZX62R-AB-5P	1	0.555	0.555		
	Trans GP SS NPN 40V SOT23	MMBT3904LT3GOSCT-ND	Digikey	MMBT3904LT3G	1	0.11	0.11		
	Trans SW PNP 20V 1.5A SOT23-3	FMMT718CT-ND	Digikey	FMMT718TA	1	0.41	0.41		
	PowerOne ACCU Plus P675 Battery	N/A	Ebay	N/A	1	164.99	164.99		
	Schottky Diode 40V 1A SOT23	ZHCS1000CT-ND	Digikey	ZHCS1000	1	0.464	0.464		
	Diode SW GPP Fast 1A 50V SMA	RS1A-E3/611TGICT-ND	Digikey	RS1A-E3/61T	1	0.4	0.4		
	Inductor Multilayer 4.7uH 0603	445-9286-1-ND	Digikey	MLZ1608N4R7L	1	0.16	0.16		
	Inductor 47uH 50mA 10% 0603	587-1722-1-ND	Digikey	CBMF1608T470K	1	0.18	0.18		
	Resistor 10k Ohm 1/10 W 0402 SMD	P10KJCT-ND	Digikey	ERJ-2GEJ103X	1	0.09	0.09		
	Resistor 1k Ohm 1/10 W 0402 SMD	P1.0KJCT-ND	Digikey	ERJ-2GEJ102X	1	0.09	0.09		
	Resistor 100k Ohm 1/10 W 0402 SMD	P100KJCT-ND	Digikey	ERJ-2GEJ104X	1	0.09	0.09		
	Resistor 220 Ohm 1/10 W 0402 SMD	P220JCT-ND	Digikey	ERJ-2GEJ221X	1	0.09	0.09		
	Resistor 470 Ohm 1/10 W 0402 SMD	P470JCT-ND	Digikey	ERJ-2GEJ471X	1	0.09	0.09		
	Resistor 300k Ohm 1/10 W 0402 SMD	P300KJCT-ND	Digikey	ERJ-2GEJ304X	1	0.09	0.09		
	Resistor 680 Ohm 1/10 W 0402 SMD	P680JCT-ND	Digikey	ERJ-2GEJ681X	1	0.09	0.09		
	Resistor 160k Ohm 1/10 W 0402 SMD	P160KJCT-ND	Digikey	ERJ-2GEJ164X	1	0.09	0.09		
	Resistor 470k Ohm 1/10 W 0402 SMD	P470KJCT-ND	Digikey	ERJ-2RKF4703X	1	0.09	0.09		
	Resistor .68 Ohm 1/6 W 0402 SMD	P68AKCT-ND	Digikey	ERJ-2BQF68X	1	0.54	0.54		
	Resistor 200k Ohm 1/10 W 0402 SMD	P200KJCT-ND	Digikey	ERJ-2GEJ204X	1	0.09	0.09		
	Resistor 180k Ohm 1/10 W 0402 SMD	P180KJCT-ND	Digikey	ERJ-2GEJ184X	1	0.09	0.09		
	Capacitor Ceramic 10uF 6.3V 0402	445-8920-1-ND	Digikey	C1005X5R0J106M050BC	1	0.294	0.294		
	Capacitor Ceramic 0.22uF 6.3V 0402	445-1267-1-ND	Digikey	C1005X5R0J224M050BB	1	0.09	0.09		
	Capacitor Ceramic 0.015uF 6.3V 0402	399-4880-1-ND	Digikey	C0402C153K9RACTU	1	0.33	0.33		
	Capacitor Cer 10000uF 6.3V 0402	478-6239-1-ND	Digikey	UT026D103MAC2F	1	1.22	1.22		
Main Module									
	Resistor For Switch	10K ohm (0402)	Digikey	541-10KYACT-ND	5	\$ 0.088	0.44		
	Omnidirectional Microphone	TO-24603	Digikey	x	1		0		* price based on rile of 5000 units
	Directional Microphone	TD-24618	Digikey	x	1		0		* price based on rile of 5000 units
	Preamplifier	INA333	Digikey	296-23565-1-ND	2	\$ 4.385	8.7696		
	Resistor for Preamplifier	2.1K ohm (0805)	Digikey	P2.10KCCT-ND	2	\$ 0.100	0.2		
	Resistors For bandpass filter	10K ohm (0805)	Digikey	RMCF0805FT10K0CT-ND	4	\$ 0.016	0.0648		
	Capacitor for Low pass filter	2nF	Digikey	490-1627-1-ND	2	\$ 0.138	0.276		
	Capacitor for High pass filter	80nF	Digikey	587-1131-1-ND	2	\$ 0.515	1.03		
	MC56F8006 48pin DSC	MC56F8006	Digikey	MC56F8006VLF-ND	1	\$ 3.640	3.64		
	Digital to audio converter	DAC8311	Digikey	296-23760-1-ND	1	\$ 5.960	5.96		
	Speaker	ES23127	Digikey	x	1		0		* price based on rile of 5000 units
	5 Way Tactile Switch	COM-10063	Sparkfun	N/A	1	1.56	1.56		* price based on 100 or more units
	Micro USB	ZR62R-AB_5P	Mouser	ZR62R-AB_5P	1	\$0.497	0.497		
Rapid Prototyping									
	Round Transfer Module White Plastic	N/A	Shapeways	N/A		\$ 1.40	\$ 10.31	14.434	
	Round Top White Plastic	N/A	Shapeways	N/A		\$ 1.40	\$ 4.16	5.824	
	Round Bottom	N/A	Shapeways	N/A		\$ 1.40	\$ 4.16	5.824	
	Round Bottom ALT	N/A	Shapeways	N/A		\$ 1.40	\$ 4.14	5.796	
	Battery Top Shell	N/A	Shapeways	N/A		\$ 1.40	\$ 3.09	4.326	
	Battery Back Shell	N/A	Shapeways	N/A		\$ 1.40	\$ 2.71	3.794	
	Bottom Component	N/A	Shapeways	N/A		\$ 1.40	\$ 3.69	5.166	
							Total	\$ 244.37	
Tooling									
	Freescale-CodeWarrior	CWA-PRO-FL	Freescale		\$ 1.00	\$ 1,995.00	\$ 1,995.00		tool -Software
	Eval Module for BQ2000	296-30723-ND	Digikey	BQ2000EVM	1		0		tool
	IC OP Amp Instr R-R 150Khz 8-MSOP	296-23565-1-ND	Digikey	INA333AIDGKT	1	4.9	4.9		tool
	DSC 16k Flash 32 Mhz 48-LQFP	MC56F8006VLC-ND	Digikey	MC56F8006VLF	1	3.42	3.42		tool
	Demo Board for MC56F8006	MC56F8006DEMO-ND	Digikey	MC56F8006DEMO	1		0		tool for assesment and testing
	Resistor .33 Ohm 3W 1% Wirewound	PPC3D.33CT-ND	Digikey	PAC3000033007FAC000	1	0.97	0.97		tool for testing
	Buck Converter	LM3671MF-1.8/NOPT-ND	Digikey	LM3671MF-1.8/NOPT	1	0.88	0.88		tool
	USB TAP for Freescale Processor	CWH-UTP-ONCE-HE-ND	Digikey	CWH-UTP-ONCE-HE	1	92.82	92.82		tool
							Total	\$ 2,097.99	