

Bill of Materials for Capstone Group #9

Total # Parts **116**

Total Cost: **\$220.50**

Part Info				Digi-Key		
Ref#	Ref Value	Manf#	Quantity	Part#	Available	Unit Cost
BAR1	DC7G3HWA	DC7G3HWA	1	754-1671-5-ND	43	\$2.73
BT5	Battery Holder	BH4AAPC	1	BH4AA-PC-ND	2073	\$5.57
BT1-BT4	Holder	BK-5091	4	BK-5091-ND	4220	\$0.42
C1,C2	27p	C1206C270F5GACTU	2	399-9339-1-ND	3930	\$2.02
C10,C11	100p	885012008004	2	732-7864-1-ND	3319	\$0.15
C12	1n	885012208022	1	732-8089-1-ND	3391	\$0.14
C13,C15,C17	0.68u	885012208012	3	732-7684-1-ND	2715	\$0.46
C14,C16,C19	0.068u	885012208086	3	732-8126-1-ND	2550	\$0.20
C18,C27,C29	47u	GRM31CC80J476KE18L	3	490-8337-1-ND	20000	\$1.21
C20,C22	10u	C3216X5R1C106K160AA	2	445-4052-1-ND	6752	\$0.42
C21,C24,C25	4.7u	C1206C475K4PACTU	3	399-1265-1-ND	20000	\$0.43
C23	22u	C1206C226Z9VACTU	1	399-3028-1-ND	16816	\$0.57
C26,C28	10n	C1206C103J5RACTU	2	399-1237-1-ND	30522	\$0.33
C3,C4	15p	C1206C150J5GACTU	2	399-1194-1-ND	34631	\$0.35
C8	4.7u	F931C475KAA	1	478-8265-1-ND	221	\$0.56
C5-C7,C9	0.1u	C1206C104K4RACTU	4	399-9305-1-ND	40000	\$0.20
D1	SMDA15TR	SMDA15TR	1	1655-1914-1-ND	2500	\$0.72
D3,D4	1N914	1N914	2	1N914FS-ND	23339	\$0.14
F1	Fuse_Holder	0031.8201	1	486-1258-ND	44234	\$0.95
J1	ISCP	61300411121	1	732-5317-ND	20525	\$0.25
J2	SD_Card	145638009211859+	1	478-4059-1-ND	36044	\$4.22
J3	EncoderHeader	B4B-XH-A(LF)(SN)	1	455-2249-ND	184591	\$0.29
J4	MotorHeader	B2B-XH-A(LF)(SN)	1	455-2247-ND	147104	\$0.21
L1	10u	77F100K-TR-RC	1	77F100K-TR-RCCT-ND	10402	\$0.42
R1,R4	1k	RC1206JR-071KL	2	311-1.0KERCT-ND	155592	\$0.15
R10,R11,R19	2k	RC1206FR-072KL	3	311-2.00KFRCT-ND	521394	\$0.15
R12	82k	RC1206FR-0782KL	1	311-82.0KFRCT-ND	2699	\$0.15
R13,R14	1.5k	CRCW12061K50FKEAC	2	541-4184-1-ND	32370	\$0.15
R15	9k	RC1206FR-079K09L	1	311-9.09KFRCT-ND	4463	\$0.15
R17	40k	RC1206FR-0740K2L	1	311-40.2KFRCT-ND	29843	\$0.15
R18	15k	AC1206FR-0715KL	1	YAG3815CT-ND	29346	\$0.15
R2,R16	100	AC1206FR-07100RL	2	YAG3804CT-ND	21159	\$0.15
R20	18k	RC1206FR-0718KL	1	311-18.0KFRCT-ND	209262	\$0.15
R21	2.2k	RC1206JR-072K2L	1	311-2.2KERCT-ND	244667	\$0.15
R22	3.3k	RC1206FR-073K3L	1	311-3.30KFRCT-ND	547028	\$0.15
R3	10k	RC1206JR-0710KL	1	311-10KERCT-ND	528040	\$0.15
R5	5.6k	RC1206FR-075K6L	1	311-5.60KFRCT-ND	59375	\$0.15
R6	2.4k	RC1206JR-072K4L	1	311-2.4KERCT-ND	140621	\$0.15
R7,R8	100k	RC1206FR-07100KL	2	311-100KFRCT-ND	1184160	\$0.15
R9	3k	RC1206JR-073KL	1	311-3.0KERCT-ND	5762	\$0.15
RN1	3.3k	4610X-102-332LF	1	4610X-2-332LF-ND	1991	\$0.79
RN10	150	4606X-102-151LF	1	4606X-2-151LF-ND	6101	\$0.62
RN11,RN12	2.7k	770103272P	2	770-103-R2.7KP-ND	1778	\$1.16
RN13	150	4610X-101-151LF	1	4610X-1-151LF-ND	660	\$0.93
RN2	10k	4608X-102-103LF	1	4608X-2-103LF-ND	9321	\$0.85
RN4	10k	4116R-1-103FLF	1	4116R-1-103FLF-ND	26	\$1.31
RN5	1k	4606X-102-102LF	1	4606X-2-102LF-ND	647	\$0.92
RN9	10k	4606X-102-103LF	1	4606X-2-103LF-ND	813	\$0.62
RV1	5kPOT	PV36W502C01B00	1	490-2888-ND	8861	\$2.23
RV2	3kPOT	3362P-1-302LF	1	3362P-1-302LF-ND	1245	\$1.51
RV3	2kPOT	PV36W202C01B00	1	490-2880-ND	2011	\$2.23
RV4	100k POT	PV36W104C01B00	1	490-2876-ND	14427	\$2.23
RV5	500k POT	3296W-1-504LF	1	3296W-504LF-ND	4284	\$3.58
SW1	SW_DIP_x06	418117270906	1	732-3836-5-ND	16	\$2.63
SW2	Reset	TL1105F250Q	1	EG1828-ND	19655	\$0.25
SW3	Bat-Test	EG1218	1	EG1903-ND	36127	\$0.81
SW4	Start	UB155SKG035F-FF	1	360-1947-ND	1787	\$11.65
SYM1	IC_Socket	ED281DT	1	ED3050-5-ND	26059	\$0.46
SYM14	Motor	FIT0487	1	1738-1267-ND	170	\$18.19
SYM2	OLED-100H016F	O100H016FBPP5N0000	1	541-3451-ND	12	\$32.83
SYM3	LCD_Socket	PPTC082LFBN-RC	1	S7076-ND	3122	\$1.38
SYM4	512MB SD Card	AF512SDI-OEM	1	AF512SDI-OEM-ND	255	\$20.16
SYM9	1A_Fast	5MF 1-R	1	507-1261-ND	6689	\$0.29
SYM10-SYM13	AA	EN91	4	N107-ND	203877	\$0.19
SYM5-SYM8	Cell	A76	4	N402-ND	84722	\$0.79
TH1	Thermistor	DC103G9G	1	615-1054-ND	8305	\$1.56

U1	dsPIC33FJ128GP802	DSPIC33FJ128GP802-I/SP	1	DSPIC33FJ128GP802-I/SP-ND	133	\$8.13
U12	P7805-Q24-S3-S	P7805-Q24-S3-S	1	102-2704-ND	1506	\$6.88
U13	PDM1-S5-D5-S	PDM1-S5-D5-S	1	102-2722-ND	546	\$6.27
U14,U17	LM339	LM339N	2	296-1393-5-ND	263889	\$0.74
U15	NE556	NE556N	1	296-6504-5-ND	4835	\$0.79
U18	74HC74	SN74HCT74N	1	296-1625-5-ND	1711	\$0.70
U2	LCD_Header	67996-416HLF	1	609-3220-ND	3007	\$0.84
U20	L293DNE	L293DNE	1	296-9518-5-ND	5205	\$5.13
U21	LM2903	LM2903P	1	296-6601-5-ND	10827	\$0.61
U5	LT1079CN	LT1079CN#PBF	1	LT1079CN#PBF-ND	1008	\$10.34
U6,U11	TLC2264IN	TLC2264IN	2	296-7107-5-ND	3348	\$3.46
U8	LT1636	LT1636CN8#PBF	1	LT1636CN8#PBF-ND	395	\$4.38
U9	IL300	IL300-F	1	751-1296-5-ND	8575	\$16.01
Y1	10MHz	ABMM-10.000MHZ-B2-T	1	535-9150-1-ND	4228	\$1.37
Y2	32kHz	AB38T-32.768KHZ	1	535-9034-ND	37808	\$0.25