

QC2019 Main Badge BOM - rD1												
#	Designator	Name	Spec	Manufacturer	PN	Any*	Footprint	Cost	@ Qty	QTY	% Spare	Ship QTY
1	A1	Antenna	2.4GHz	Johanson	2450AT42A100E	N	5mm	\$ 0.402	500	1	5%	683
2	BT1	Battery Holder	2AA	Eagle Plastic	12BH321P-GR	Y	TH	\$ 0.625	500	1	10%	715
3	C1, C2, C3, C4	Pwr cap	4.7uF X7R, 50V	Taiyo Yuden	UMK316AB7475KL-T	Y	1206	\$ 0.075	2000	4	10%	2860
4	C15, C16, C17, C18, C19, C21, C22, C24, C25, C27	Bypass Cap	0.1uf/ 100nF, 50V	Samsung	CL10B104KB8NNNC	Y	0603	\$ 0.005	4000	10	10%	7150
5	C20, C23	Bypass Cap	10uF	Walsin	0402X106M6R3CT	Y	0402	\$ 0.006	1000	2	10%	1430
6	C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C26	Display Cap	1uF, 50V	Samsung	CL10A105KP8NNNC	y	0603	\$ 0.006	4000	11	10%	7865
7	D1 - D18	RA LEDs		Shenzhen Huiyou	HY-120615HRGBC	Y	SMT	\$ 0.060	12000	18	10%	12000
8	D101, D102, D103	Display diode		On Semi	MBR0530T1GOSCT-ND	Y	SOD-123	\$ 0.064	2000	3	10%	2145
9	D19-D28	RGB LEDs		Shenzhen Huiyou	HY-0603HRGBC	Y	SMT	\$ 0.030	2000	10	10%	8000
10	D30	Power Diode		On Semi	MBR1020VL	N	SOD-123F	\$ 0.105	500	1	10%	715
11	D31, D32, D33	Protection Diode	3.6 Zener Voltage	Vishay	AZ23C3V6-E3-08	Y	SOT-23-3	\$ 0.060	1000	3	10%	2145
12	D96	TVS Diodes		Diodes Inc	DT1446-04S-7	Y	SOT-363	\$ 0.200	1000	1	10%	715
13	DS9	Display	2.9" eINK	Dalian Good Display	GDEW029T5	N	NA	\$ 6.650	700	1	10%	700
14	FL1		ferrite bead	Murata	BLM18HE152SN1D	Y	0603	\$ 0.078	500	1	10%	715
15	K1	custom keypad		NA	NA	N	TH	\$ 4.000	700	1	10%	715
16	L1	Pwr Ind	4.7uH	Bourns	CV201210-4R7K	Y	0805	\$ 0.039	500	1	10%	715
17	L2, L3	Display inductor	10uH, 50V, WW	Bourns	CBC2518T100M	Y	1210	\$ 0.072	1000	2	10%	1430
18	P0, P3	Programming	2.00 TH	DNP	DNP	Y	2.0 TH	\$ -	0	0	10%	0
19	P1	Disp port	0.5mm 24P	Amphenol FCI	SFV24R-4STE1HLF	Y	0.5 mm SMT	\$ 0.213	500	1	10%	715
20	P2	Connector	RJ25	Molex	0955016669	N	SMT	\$ 0.520	2000	1	10%	715
21	Q1		50V	Vishay	SI1308EDL-T1-GE3	Y	SOT-323-3	\$ 0.180	500	1	10%	715
22	Q10	Light Sensor	NPN	Fairchild	KDT00030TR	Y	SMT	\$ 0.273	100	1	10%	715
23	R1	Rst Pull-up	100k	Bourns	CR0603-JW-104ELF	Y	0603	\$ 0.004	700	1	10%	715
24	R11	Display Res	10k	Bourns	CR0603-JW-103ELF	Y	0603	\$ 0.006	700	1	10%	715

#	Designator	Name	Spec	Manufacturer	PN	Any*	Footprint	Cost	@ Qty	QTY	% Spare	Ship QTY
25	R8, R12	Display Res	30hms	Rohm	ESR03EZPJ3R0	Y	0603	\$ 0.006	700	2	10%	1430
26	R2, R7	I2C PU	2.2k	Bourns	CR0603-JW-222ELF	Y	0603	\$ 0.006	700	2	10%	1430
27	R3	Light Resistor	5K	Bourns	CR0603-FX-4991ELF	Y	0603	\$ 0.005	700	1	10%	715
28	R4	Pwr Resistor	1.02M	Yageo	RC0603FR-071ML	Y	0603	\$ 0.006	100	1	10%	715
29	R5	Rext	1k	Bourns	CR0603-JW-102ELF	Y	0603	\$ 0.006	700	1	10%	715
30	SC1	Balun	NA	Johanson	2450BM14G0011T	N	0603x6	\$ 0.342	500	1	10%	715
31	U1	CPU	NA	TI	CC2640R2FRGZR	N	VQFN-48	\$ 2.780	700	1	5%	683
32	U4	LED Controller	NA	Holtek	HT16D35B	N	SOP-24	\$ 2.000	500	1	10%	715
33	U5	Flash	16M-bit flash	Winbond	W25Q16JVSSIQ	Y	SOIC-8 (208mil)	\$ 0.465	500	1	10%	715
34	VR1	Regulator	Boost	Skyworks	AAT1217ICA-3.3-T1	N	TSOT23-6	\$ 0.530	500	1	10%	715
35	X2	Crystal	24MHz	Epson	TSX-3225 24.0000MF10Z-C3	N	SMT	\$ 0.193	500	1	10%	715
			Total Badges	650								
			Number of Pads	322								
			Number of Holes	2								
			Number of Unique Components	35								
			Total Number of Components	90								
			Total Cost Each	\$ 24.01								
			Grand Total	\$ 15,478.95								