

Unique Part Count	Type	Decription	Value	Size	Quantity	Ref Des	Mfg P/N
1	Capacitor	Cap Ceramic 0.1uF 25V X5R 10%	0.1 μ F		0603	4 C3, C4, C6, C7	CL10A104KA8NNNC
2	Capacitor	Cap Ceramic 4.7uF 16V X5R 10%	4.7 μ F		0603	2 C1, C5	CL10A475KO8NNNC
3	Capacitor	Cap Ceramic 10uF 10V X5R 10%	10 μ F		0603	4 C2, C8, C9, C10	CL10A106KP8NNND
4	Resistor	Res Thick Film 0603 120 Ohm 5% 0.1W	120 Ω		0603	1 R5	RC0603JR-07120RL
5	Resistor	Res Thick Film 0603 1K Ohm 5% 0.1W(1/10W)	1K Ω		0603	2 R1, R6	RC0603JR-131KL
6	Resistor	Res Thick Film 0603 10K Ohm 1% 0.1W(1/10W)	10K Ω		0603	2 R2, R3	RC0603FR-0710KL
7	Resistor	Res Thick Film 0603 100K Ohm 5% 0.1W(1/10W)	100K Ω		0603	1 R4	RC0603JR-07100KL
8	RGB LED	RGB LED 20mm x 20mm				1 RGB	APA102-2020
9	Volt Reg	LDO Regulator Pos 3.3V 0.6A 5-Pin				1 VREG	AP2112K-3.3TRG1
10	μ Processor	MCU 32-bit ARM Cortex M4F RISC 512KB Flash 3.3V 48-Pin VQFN		48-Pin 7mm x 7mm		1 U1	ATSAMD51G19A-MU
11	Ferrite Bead	Ferrite Beads Multi-Layer 220Ohm 25% 100MHz 2.5A 50mOhm DCR 0603		0603		1 FB	CIS10P221NC
12	Switch	Switch Tactile N.O. SPST Rectangular Button Gull Wing				2 SW1, SW2	KMS233(1)G LFG(S)
13	Diode	Diode Schottky 20V 1A 2-Pin SOD-123FL		SOD-123		2 D1, D2	MBR120VLSFT3G
14	μ USB	Conn Micro USB Type B RCP 5 POS 0.65mm Solder RA SMD 5 Terminal 1 Port				1 J1	0473461001
15	Memory	NOR Flash Serial (SPI, Dual SPI, Quad SPI) 3V/3.3V 16M-bit 2M x 8 6ns 8-Pin USON		2mm x 3mm		1 U2	W25Q16JVUXIM TR
16	LED	Standard LEDs - SMD Red SMD Rev Gullwing				1 LED	VLRK31Q1R2-GS08
17	BATT_CONN	JST 2 PH				DNP	BATT_CONN DNP