

Item	Qty	Reference Designator	Manufacturer	Manufacturer P/N	Distributor	Distibuter P/N	Description					
1	1	U201	Microchip	MCP73831T-2ACI/OT	Digikey	MCP73831T-2ACI/OTCT-ND	IC CONTROLLR LI-ION 4.2V SOT23-5					
2	1	D101	STMicroelectronics	BAT20JFILM	Digikey	497-3381-1-ND	DIODE SCHOTTKY 23V 1A SOD323					
3	1	Q101	Diodes Incorporated	DMG2307L-7	Digikey	DMG2307L-7DICT-ND	MOSFET P-CH 30V 2.5A SOT-23					
4	1	R201				311-3.3KGRCT-ND	Resistor, 3.3k, 5%, 1/10W, 0603					
5	1	P201	JST	S2B-PH-SM4-TB(LF)(SN)	Digikey	455-1749-1-ND	2 Positions Header, Shrouded Connector 0.079" (2.00mm) Surface Mount, Right Angle Tin					
6	3	C103,C201,C202					Capacitor, 4.7uF ceramic, +80%/-20%, 6.3v+, X5R, 0603					
7	1	U101	Atmel	ATECC508A-SSHDA-B	Digikey	ATECC508A-SSHDA-B-ND	IC EEPROM CRYPTO 10KB I2C 8SOIC					
8	1	IC101	Atmel	ATMEGA32U2-AU	Digikey	ATMEGA32U2-AU-ND	AVR AVR® ATmega Microcontroller IC 8-Bit 16MHz 32KB (16K x 16) FLASH 32-TQFP (7x7)					
9	1	P101	Amphenol	10118192-0001LF	Digikey	609-4613-1-ND	USB - micro B USB 2.0 Receptacle Connector 5 Position Surface Mount, Right Angle, Horizontal					
10	8	D301-D308	Worldsemi	WS2812B			RGB LED					
11	1	SW101	C&K Components	JS202011SCQN	Digikey	401-2002-1-ND	SWITCH SLIDE DPDT 300MA 6V					
12	1	Y101	Abracon	ABLS-16.000MHZ-D-4-T	Digikey	535-13436-1-ND	CRYSTAL 16.0000MHZ 18PF SMD					
13	2	C101,C102					Capacitor, 18pF, 10%, 0603					
14	2	R101,R102				311-22GRCT-ND	Resistor 22 ohms, 5%, 0603					
15	3	R103,R106,R105					Resistor, 100k, 10%, 0603					
16	10	C104,C106,C301-C308					Capacitor, 1uF ceramic, +80%/-20%, 6.3v+, X5R, 0603					
17	1	R104					Resistor, 4.7k, 0603					
19	1	C105					Capacitor, 10nF, 0603					
20	2	R107,R108					Resistor, DO NOT POPULATE					