

Component	References	Part	Description	Vendor	Vendor Part	Manufacturer	Manufacturer Part	Quantity Per PCB	Build Quantity	Datasheet	Value	Mates With	Uses Cable
1	BT1	Battery_Cell	Single-cell battery					1	40	~	Battery_Cell		
2	C2 C3 C11	C	Unpolarized capacitor	Digikey	399-1177-1-ND	KEMET	C0805C104Z5VACTU	3	120	~	0.1uF		
3	C10	C1206C104KARI	CAP CER 1206 0.1UF 250V X7R	Digikey	399-17175-1-ND	KEMET	C1206C104KARECAUTO	1	40	https://content.keme	0.1uF 250V		
4	C1	C	Unpolarized capacitor	Digikey	399-6999-1-ND	KEMET	C0805C334K5RACAUTO	1	40	~	0.33uF		
5	C4	C	Unpolarized capacitor	Digikey	399-1136-1-ND	KEMET	C0805C102J5GACTU	1	40	~	1nF		
6	C6 C8 C9	C	Unpolarized capacitor	Digikey	399-1284-1-ND	KEMET	C0805C105K4RACTU	3	120	~	1uF		
7	C5	EEE-1HA010NR	CAP ALUM 1UF 20% 50V SMD	Digikey	PC4301CT-ND	Panasonic Electr	EEE-1HA010NR	1	40	https://media.digikey	1uF 50V		
8	C7	C	Unpolarized capacitor					1	40	~	C		
9	D3 D4 D5 D6	NRVTS260ESFT	DIODE SCHOTTKY 60V 2A SOD123FL	Digikey	NRVTS260ESFT	ON Semiconductor	NRVTS260ESFT1G	4	160	https://www.onsemi	60V 2A		
10	D1	LED_Green	Red Green Indication - Discrete 2V 0805 (2012 Metric)	Digikey	L62405CT-ND	Visual Communi	CMD17-21VGC/TR8	1	40	https://vccite.com/w	LED_Green		
11	D2	LED_Red	Red LED Indication - Discrete 2V 0805 (2012 Metric)	Digikey	L62501CT-ND	Visual Communi	CMD17-21VRD/TR8	1	40	https://vccite.com/w	LED_Red		
12	F1 F2	LittelfuseHolder	FUSE BOARD MNT 500MA 125VAC/VDC	Digikey	F11011CT-ND	Littelfuse Inc.	0154010.DRL	2	80	https://www.littelfuse	10A	0451010.MRL	
13	J3	AVX-IDC	CONN WIRE IDC 2POS 18AWG SMD	Digikey	478-7790-1-ND	AVX Corporation	9176002701106	1	40	https://media.digikey	AVX-IDC		
14	J1	Conn_01x05_Ma	Generic connector, single row, 01x05, script generated (kicad-library-utils/schlib/autogen/connector/)					1	40	~	Conn_01x05_Male		
15	J2	IDC-06pin	CONN HEADER VERT 6POS 2.54MM	Digikey	609-2845-ND	Amphenol ICC	F 75869-131LF	1	40	https://cdn.ampheno	IDC-Connector	71600-006LF	310J101-20
16	JP1 JP2 JP4	Jumper	Jumper, normally closed					3	120	~	Jumper	15291025	
17	JP3	SolderJumper_2	Solder Jumper, 2-pole, open					1	40	~	SolderJumper_2_Open		
18	LOGO2	LeopardPawLogo						1	40		LeopardPawLogo		
19	MCU1	STM8S003F3	IC MCU 8BIT 8KB FLASH 20TSSOP	Digikey	497-18051-1-ND	STM	STM8S003F3P6TR	1	40	https://www.mouser	STM8S003F3		
20	Q1	SP8K24FRATB	Mosfet Array 2 N-Channel (Dual) 45V 6A (Ta) 2W Surface Mount 8-SOP	Digikey	SP8K24FRATBC	Rohm Semicond	SP8K24FRATB	1	40	https://www.mouser	SP8K24FRATB		
21	R18	R	Resistor					1	40	~	10k		
22	R2	R	Resistor					1	40	~	15k		
23	R9 R15 R16	R	Resistor					3	120	~		200	
24	R13	R	Resistor					1	40	~	200k		
25	R3 R4 R11 R12 I R	R	Resistor					8	320	~	2k		
26	R1 R5 R6 R7 R8 R	R	Resistor					5	200	~		30	
27	R21	R	Resistor					1	40	~	51k		
28	R19	R	Resistor					1	40	~		820	
29	R10	R	Resistor					1	40	~	R		
30	T1	FlybackTransfor	Flyback Converters	Digikey	1297-1136-1-ND	Würth Elektronik	750313457	1	40	https://www.we-onlin	FlybackTransformer		
31	TH1	NTCS0603	THERMISTOR NTC 2KOHM 3420K 0603	Digikey	BC2477CT-ND	Vishay BC Comp	NTCS0603E3202JLT	1	40	http://www.vishay.co	NTCS0603		
32	U2	ACHS-7121	Isolated Current Sensor	Digikey	516-4080-ND	Broadcom Limite	ACHS-7121-000E	1	40	https://www.mouser	ACHS-7121		
33	U5	AD8479	General Purpose Amplifier 1 Circuit Rail-to-Rail 8-SOIC	Digikey	AD8479ARZ-ND	Analog Devices I	AD8479ARZ	1	40	https://www.analog.c	AD8479		
34	U1	L78L05CD13TR	Linear Voltage Regulator 5V 100mA	Digikey	497-7267-1-ND	STMicroelectroni	L78L05CD13TR	1	40	https://www.mouser	L78L05CD13TR		
35	VREF1	ADR510	Shunt Voltage Reference IC ±0.35% SOT-23-3	Digikey	ADR510ARTZ-R	Analog Devices I	ADR510ARTZ-REEL7	1	40	https://www.analog.c	ADR510		
Component Group: 35													
Component Count: 58													
Fitted Component: 58													
Number of PCBs: 40													
Total component: 2320													
Schematic Version: 2.2													
Schematic Date: 2020-01-22													
PCB Variant: [u'default']													
BoM Date: 4/13/2020 4:39:3													
Schematic Source: D:\Shared\CellMani\CellMan.sch													
KiCad Version: Eeschema (5.1.0)-1													