

## Component List / BOM Archive

<b>Project:</b>	<b>Summits 7</b>
<b>Version:</b>	<b>Beta 1.0</b>
Report Date:	07-16-2020
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#	Designator	Name/Value	Description	Package / Case	Importance*	Quantity	Manufacturer	Supplier 1			Alternative Supplier		
								Name	Part Number	Link Part	Name	Part Number	Link Part
1	Antenna	<b>2450AT42B100E</b>	Ceramic Antenna SMD	<b>T&amp;R</b>		1	<b>Johanson Technology</b>	Mouser	609-2450AT42B100E	<a href="#">Link Mouser</a>	Digikey	712-1008-1-ND	<a href="#">Link Digikey</a>
2	Ca1	<b>10uF</b>	Capac Ceramic SMD 0603	<b>0603</b>		1	-	-	-	-	-	-	-
3	Ca2	<b>100nF</b>	Capac Ceramic SMD 0603	<b>0603</b>		1	-	-	-	-	-	-	-
4	Ca3	<b>3.0pF</b>	Capac Ceramic SMD 0402	<b>0402</b>		1	-	-	-	-	-	-	-
5	Ca4	<b>2.4pF</b>	Capac Ceramic SMD 0402	<b>0402</b>		1	-	-	-	-	-	-	-
6, 8, 9	Cb1, Cc1, Cd1	<b>4.7uF</b>	Capac Ceramic SMD 0603	<b>0603</b>		3	-	-	-	-	-	-	-
7, 13, 15	Cbus, Ce1, Ce3	<b>22uF</b>	Capac Ceramic SMD 1210	<b>1210</b>		3	-	-	-	-	-	-	-
10, 11	Cd2, Cd3	<b>100pF</b>	Capac Ceramic SMD 0603	<b>0603</b>		2	-	-	-	-	-	-	-
12	Cd4	<b>2.2uF</b>	Capac Ceramic SMD 0603	<b>0603</b>		1	-	-	-	-	-	-	-
14	Ce2	<b>1uF</b>	Capac Ceramic SMD 0603	<b>0603</b>		1	-	-	-	-	-	-	-
16, 17	Cf1, Cf2	<b>22uF</b>	Capac Ceramic SMD 0603	<b>0603</b>		2	-	-	-	-	-	-	-
18, 19	Cy1, Cy2	<b>22pF</b>	Capac Ceramic SMD 0603	<b>0603</b>		2	-	-	-	-	-	-	-
20	D_LED	<b>OVLGC0C6B9</b>	LED Green-Blue 505nm	<b>T-1 1/4</b>	Please use this LED	1	<b>Optek / TT Electronics</b>	Mouser	828-OVLGC0C6B9	<a href="#">Link Mouser</a>	Digikey	365-1185-ND	<a href="#">Link Digikey</a>
21	D_Phot	<b>VBPW34S</b>	Photodiode 850nm 25ns 120Å <sup>2</sup> SMD, Gull Wing	<b>Non Standard</b>	Not use VBPW34SR (Different component)	1	<b>Vishay</b>	Mouser	621-DDZ12ASF-7	<a href="#">Link Mouser</a>	Digikey	751-1500-1-ND	<a href="#">Link Digikey</a>
22	J_Jumper	<b>M50-3530242</b>	1.27mm Pin Header 2x1	<b>1.27mm Header</b>		1	<b>HARWIN</b>	Mouser	855-M50-3530242	<a href="#">Link Mouser</a>	-	-	-
24	J_UART	<b>M50-3530442</b>	1.27mm Pin Header 4x1	<b>1.27mm Header</b>		1	<b>HARWIN</b>	Mouser	855-M50-3530442	<a href="#">Link Mouser</a>	-	-	-
25	J_USB_A	<b>CQ-USB-AFFS90</b>	USB-A Socket	-		1	<b>Shenzhen Chuangqin Technology</b>	Alibaba	-	<a href="#">Link Alibaba</a>	-	-	-
26	La1	<b>4.3nH</b>	Inductor SMD 0603	<b>0603</b>		1	-	-	-	-	-	-	-
27	La2	<b>2.2nH</b>	Inductor SMD 0402	<b>0402</b>		1	-	-	-	-	-	-	-
28	Le	<b>SRN5040-6R8M</b>	Inductor 6.8uH 2.3A	<b>Non Standard</b>		1	<b>Bourns</b>	Mouser	652-SRN5040-6R8M	<a href="#">Link Mouser</a>	Digikey	SRN5040-6R8MCT-ND	<a href="#">Link Digikey</a>
29	Q	<b>ZXT11N20DFTA</b>	Transistor NPN Low Saturation Vce - SOT-23-3	<b>SOT-23-3</b>	Important Low Saturation Vce	1	<b>Diodes</b>	Mouser	522-ZXT11N20DFTA	<a href="#">Link Mouser</a>	Digikey	ZXT11N20DFTR-ND	<a href="#">Link Digikey</a>
30	Ra1	<b>12K +- 1%</b>	Resistor SMD	<b>0603</b>		1	-	-	-	-	-	-	-
31	Ra2	<b>200</b>	Resistor SMD	<b>0603</b>		1	-	-	-	-	-	-	-
32	Ra3	<b>499</b>	Resistor SMD	<b>0603</b>		1	-	-	-	-	-	-	-
33, 38, 44	Ra4, Rd1, Rq1	<b>1K</b>	Resistor SMD	<b>0603</b>		3	-	-	-	-	-	-	-
34	Ra5	<b>5K</b>	Resistor SMD	<b>0603</b>		1	-	-	-	-	-	-	-
35, 36	Rc1, Rc2	<b>10K</b>	Resistor SMD	<b>0603</b>		2	-	-	-	-	-	-	-
39	Rd2	<b>6.8K</b>	Resistor SMD	<b>0603</b>		1	-	-	-	-	-	-	-
41	Re1	<b>40.2K</b>	Resistor SMD	<b>0603</b>		1	-	-	-	-	-	-	-
42	Re2	<b>7.68K</b>	Resistor SMD	<b>0603</b>		1	-	-	-	-	-	-	-
43	Re3	<b>59K</b>	Resistor SMD	<b>0603</b>		1	-	-	-	-	-	-	-
45	Rq2	<b>33</b>	Resistor SMD	<b>0603</b>		1	-	-	-	-	-	-	-

40	RdT	R_Trimmer_20K	Trimmer Resistor SMD 20kΩ	J-Hook	Trimmer 20K	1	Bourns	Mouser	81-PVG3A203C01R00	<a href="#">Link Mouser</a>	Digikey	490-2650-1-ND	<a href="#">Link Digikey</a>
46	RqT	R_Trimmer_1K	Trimmer Resistor SMD 1kΩ	J-Hook	Trimmer 1K	1	Bourns	Mouser	81-PVG3A102C01R00	<a href="#">Link Mouser</a>	Digikey	490-2643-1-ND	<a href="#">Link Digikey</a>
37	RcS	ERJ-6BWFR010V	Shunt 0.01 Ohm 0.5W 1% SMD Resistor	0805		1	Panasonic	Mouser	667-ERJ-6BWFR010V	<a href="#">Link Mouser</a>	Digikey	P.01AQTR-ND	<a href="#">Link Digikey</a>
47	U1	ESP8266EX	Microcontroller ESP8266EX	32VFQFN		1	Espressif Systems	Mouser	356-ESP8266EX	<a href="#">Link Mouser</a>	Digikey	1904-1001-1-ND	<a href="#">Link Digikey</a>
48	U2	W25Q32JVSSIQ	FLASH - NOR Memory IC 32Mb _4M x 8 - SOIC	SOIC-8		1	Winbond	Mouser	454-W25Q32JVSSIQ	<a href="#">Link Mouser</a>	Digikey	W25Q32JVSSIQ-ND	<a href="#">Link Digikey</a>
49	U3	INA219BIDCNR	Current Monitor I2C	SOT-23-8		1	Texas Instruments	Mouser	595-INA219BIDCNR	<a href="#">Link Mouser</a>	Digikey	296-46420-1-ND	<a href="#">Link Digikey</a>
50	U4	MCP6001T-E/LT	OP AMP - 1.8V 1MHz Single Supply	SC-70-5		1	Microchip	Mouser	MCP6001T-E/LTCT-ND	<a href="#">Link Mouser</a>	Digikey	MCP6001T-E/LTCT-ND	<a href="#">Link Digikey</a>
51	U5	AP65111AWU-7	Buck Switching Regulator IC Positive Adjustable 0.8V 1 Output 1.5A SOT-23-6 Thin, TSOT-23-6	TSOT26		1	Diodes	Mouser	621-AP65111AWU-7	<a href="#">Link Mouser</a>	Digikey	AP65111AWU-7DICT-ND	<a href="#">Link Digikey</a>
52	U6	LM1117MPX-3.3/NOPB	LDO Regulator Pos 3.3V 0.8A SOT-223	SOT-223		1	Texas Instruments	Mouser	926-LM1117MPX3.3NOPB	<a href="#">Link Mouser</a>	Digikey	LM1117MPX-3.3/NOPBCT-ND	<a href="#">Link Digikey</a>
53	Y	ABM8-26MHz	26MHz Â±10ppm Crystal 10pF 50 Ohms 4-SMD, No Lead	ABM8		1	Abracon	Mouser	815-ABM8-26-T	<a href="#">Link Mouser</a>	-	-	-
23	J_Solar	Connx2_Battery											
*Importance: Refers to the importance of using the designated component and not a default replacement			This is a critical device and was specially calculated, it should not be exchanged for any device. In case of not obtaining this device, please contact the design engineer.										
			If possible, use the supplied device. In case there is difficulty in obtaining it, you can use another one with similar characteristics, but as long as the device has a complete datasheet where its parameters can be consulted.										
			This is a regular device and you can choose the device that suits you.										