


Component List / BOM Archive				<div><div>Company:Box Synergy</div><div>Location:Córdoba, Argentina</div><div>Website:https://www.box-synergy.com/</div><div>Design Engineer Contact:electronic@box-synergy.com - Gustavo Belbruno</div></div> <div></div>										
Project:	Summits 7													
Version:	Beta 2.0													
Report Date:	12-22-2020													
Generated by:	Gustavo Belbruno - Box Synergy Engineering Area													
#	Designator	Name/Value	Description	Package / Case	Importance*	Quantity	Manufacturer	Supplier 1			Alternative Supplier			
								Name	Part Number	Link Part	Name	Part Number	Link Part	
1, 11	Ca1, Ce1	10uF	Capac Ceramic SMD	0603		2	-	-	-	-	-	-	-	-
2, 8, 12	Ca2, Cc2, Ce2	100nF	Capac Ceramic SMD	0603		3	-	-	-	-	-	-	-	-
3, 5, 6, 9	Cb1, Cb3, Cbus, Cc3	22uF	Capac Ceramic SMD	1210		4	-	-	-	-	-	-	-	-
4	Cb2	1uF	Capac Ceramic SMD	0603		1	-	-	-	-	-	-	-	-
7	Cc1	22uF	Capac Ceramic SMD	0603		1	-	-	-	-	-	-	-	-
10	Cd1	4.7uF	Capac Ceramic SMD	0603		1	-	-	-	-	-	-	-	-
20, 21, 28	Ra1, Ra3, Re1	5.6K	Resistor SMD	0603		3	-	-	-	-	-	-	-	-
22	Rb1	40.2K	Resistor SMD	0603		1	-	-	-	-	-	-	-	-
23	Rb2	7.68K	Resistor SMD	0603		1	-	-	-	-	-	-	-	-
24	Rb3	59K	Resistor SMD	0603		1	-	-	-	-	-	-	-	-
26, 27	Rd1, Rd2	10K	Resistor SMD	0603		2	-	-	-	-	-	-	-	-
29	Rq1	1K	Resistor SMD	0603		1	-	-	-	-	-	-	-	-
30	Rq2	226	Resistor SMD	0603		1	-	-	-	-	-	-	-	-
25	RcS	ERJ-6BWFR010V	Shunt 0.01 Ohm 0.5W 1% SMD Resistor	0805	Important Good Quality, at least 0.5W	1	Panasonic	Mouser	667-ERJ-6BWFR010V	Link Mouser	Digikey	P.01AQTR-ND	Link Digikey	
18	Lb	SRN5040-6R8M	Inductor 6.8uH 2.3A	Non Standard	Important Good Quality, 6.8uH Value, at least 2.3A	1	Bourns	Mouser	652-SRN5040-6R8M	Link Mouser	Digikey	SRN5040-6R8MCT-ND	Link Digikey	
14	J_Jumper	M50-3530242	1.27mm Pin Header 2x1	1.27mm Header		1	HARWIN	Mouser	855-M50-3530242	Link Mouser	-	-	-	
16	J_UART	M50-3530442	1.27mm Pin Header 4x1	1.27mm Header		1	HARWIN	Mouser	855-M50-3530442	Link Mouser	-	-	-	
17	J_USB	CQ-USB-AFFS90	Conector del USB -- CQ-USB-AFFS90	-		1	Shenzhen Chuangqin Technology	Alibaba	-	Link Alibaba	-	-	-	
13	D_LED	OVLGC0C6B9	LED Green-Blue 505nm	T-1½		1	Optek / TT Electronics	Mouser	828-OVLGC0C6B9	Link Mouser	Digikey	365-1185-ND	Link Digikey	
19	Q1	BC817	Transistor NPN. Leave 2.5mm height from PCB	SOT-23-3		1	Diodes	Mouser	621-BC817-40W-7	Link Mouser	Digikey	BC817-40W-7	Link Digikey	
31	U1	ESP07 Module with Antenna -- Ai-Thinker	ESP07 Module with Antenna -- Ai-Thinker	-		1	Ai-Thinker	Alibaba	-	Link Alibaba	It can be easily found with others Alibaba sellers			
32	U2	AP65111AWU-7	Buck Switching Regulator IC Positive Adjustable 0.8V 1 Output 1.5A SOT-23-6 Thin, TSOT-23-6	TSOT-23-6		1	Diodes	Mouser	621-AP65111AWU-7	Link Mouser	Digikey	AP65111AWU-7DICT-ND	Link Digikey	
33	U3	LT1117IST-3.3	LDO Regulator Pos 3.3V 0.8A Automotive 4-Pin_3+Tab_ SOT-223 Tube	SOT-223		1	Texas Instruments	Mouser	926-LM1117MPX3.3NOPB	Link Mouser	Digikey	LM1117MPX-3.3 /NOPBCT-ND	Link Digikey	
34	U4	INA219BIDCNR	Current Monitor Regulator High-Side 10mA SOT-23-8	SOT-23-8		1	Texas Instruments	Mouser	595-INA219BIDCNR	Link Mouser	Digikey	296-46420-1-ND	Link Digikey	

35	U5	VEML6030	Optical Ambient Light Sensor I2C with Interrupt	Surface-mount (not detailed in datasheet)		1	Vishay	Mouser	78-VEML6030	Link Mouser	-	-	-
36	U6	24CW1280T-I/OT	EEPROM 128K I2C	SOT-23-5		1	Microchip	Mouser	579-24CW1280T-I/OT	Link Mouser	Digikey	24CW1280T-I/OTCT-ND	Link Digikey
15	J_Solar	Connx2_Panel	No component										
*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.										