## **Component list**

File: Bill of Materials

Project: On-Board Central Processor.PrjPcb

Variant: Full

Report Date: 11/01/2023 15:25 Print Date: 11/01/2023 15:28:26 Bill of Materials for Variant [Full] of Project [On-Board Central Processor.PrjPcb] (No PCB Document Selected)

## Contact:

## <Parameter ClientCompanyName not found>

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## Kleber Lima da Silva

https://krebyy.github.io/

	Print Date:	11/01/2023	15:28:26										
#	Designator	Category	Description	Case/Packag e	Manufacturer 1	Manufacturer Part Number 1	Quantity	Supplier 1	Supplier Order Qty 1	Supplier Stock 1	Supplier Unit Price 1	Supplier Subtotal 1	Supplier Currency 1
1	C1, C3, C4, C6, C9, C11, C14, C15, C16, C19, C21, C22, C24, C29, C33, C37, C38, C39, C40, C41, C43, C44, C45	Ceramic Capacitors	CAP CER 100NF 50V X7R 0603	0603	Samsung	CL10B104KB8NNNC	23	Digi-Key	2300	19618540	0,01	15,46	USD
2	C2, C5, C10, C18, C20, C23, C28, C32, C42	Ceramic Capacitors	CAP CER 10UF 25V X5R 0805	0805	Samsung	CL21A106KAYNNNE	9	Digi-Key	900	1513304	0,04	38,07	USD
3	C7, C8, C12, C13	Ceramic Capacitors	CAP CER 22UF 25V X5R 1206	1206	Samsung	CL31A226KAHNNNE	4	Digi-Key	400	2521070	0,15	60,28	USD
4	C17, C31	Tantalum Capacitors	CAP TANT 100UF 6.3V 20% 1206	1206	KEMET	T490A107M006ATE800	2	LCSC	200	50345	0,47	93,66	USD
5	C25, C27	Ceramic Capacitors	CAP CER 100PF 50V NP0 0603	0603	Samsung	CL10C101JB8NNNC	2	Digi-Key	200	963755	0,01	2,44	USD
6	C26	Ceramic Capacitors	CAP CER 4.7NF 50V X7R 0603	0603	Samsung	CL10B472KB8NNNC	1	Digi-Key	100	4678655	0,01	1,20	USD
7	C30	Ceramic Capacitors	CAP CER 1NF 50V NP0 0603	0603	Samsung	CL10C102JB8NNNC	1	Digi-Key	100	2366213	0,01	1,33	USD
8	C34	Ceramic Capacitors	CAP CER 10PF 50V NP0 0603	0603	Samsung	CL10C100CB8NNNC	1	Digi-Key	100	240062	0,01	1,32	USD
9	C36	Ceramic Capacitors	CAP CER 1PF 50V NPO 0603	0603	Yageo	CC0603BRNPO9BN1R0	1	Digi-Key	100	31711	0,03	3,42	USD
10	D1, D6	TVS Diodes	TVS DIODE UNI 15V 600W SMB	SMB	Jingdao	SMBJ15A	2	LCSC	200	1520	0,03	5,74	USD
11	D2	TVS Diodes	TVS DIODE ARRAY 5V SOT23-6	SOT-23-6	Tech Public	USBLC6-2SC6	1	LCSC	100	110830	0,39	39,34	USD
12	D3, D5, D7, D8, D9, D10, D11, D12	Schottky Diodes	DIODE SCHOTTKY 30V 200MA SOD323	SOD-323-2	ON Semiconductor / Fairchild	BAT54HT1G	8	LCSC	800	74580	0,07	55,65	USD
13	D4	Rectifier Diodes	DIODE SCHOTTKY 40V 1A SMA	SMA	Diodes	B140-13-F	1	Digi-Key	100	624124	0,17	17,26	USD
14	J1	USB Connectors	CONN RCPT USB2.0 MINI B SMD R/A	SMD-9	SHOU HAN	MINI5PTP	1	LCSC	100	10650	0,04	4,49	USD
15	J2	Headers and Wire Housings	CONN HEADER R/A 16POS 4.2MM	PTH-16	Molex	39301160	1	Digi-Key	100	5116	1,99	199,29	USD
16	JP1	Jumper	JUMPER 2PIN 1POS 2.54MM	PTH-2	XFCN	PZ254V-11-02P	1	LCSC	100	87250	0,01	1,33	USD
17	L1, L2	Ferrite Beads and Chips	FERRITE BEAD 26 OHM 0603	0603	Murata	BLM18KG260JH1D	2	Digi-Key	200	22969	0,05	9,78	USD
18	L3	Fixed Inductors	FIXED IND 4.7UH 20% 2A	SMD-2	Sunlord	SWPA4030S4R7MT	1	LCSC	100	81660	0,28	27,78	USD
19	L4	Fixed Inductors	FIXED IND 3.3UH 20% 2.4A	SMD-2	Sunlord	SWPA4030S3R3MT	1	LCSC	100	27320	0,28	27,78	USD
20	L5, L6, L7, L8, L9, L10, L11, L12, L13, L15	Ferrite Beads and Chips	FERRITE BEAD 220 OHM 0603	0603	Murata	BLM18KG221BH1D	10	Digi-Key	1000	10241	0,03	27,47	USD
21	L14	Fixed Inductors	FIXED IND 3.3NH 300MA 0603	0603	Johanson	L-14C3N3SV4T	1	Digi-Key	100	76596	0,04	3,79	
22	LED1	LEDs	LED RED CLEAR 0805 SMD	0805	Vishay Lite-On	LTST-C171KRKT	1	Digi-Key	100	306679	0,07	6,99	USD
23	LED2	LEDs	LED BLUE CLEAR 0805 SMD	0805	Vishay Lite-On	LTST-C171TBKT	1	Digi-Key	100	364746	0,11	11,28	USD
24	LED3	LEDs	LED GREEN CLEAR 0805 SMD	0805	Vishay Lite-On	LTST-C171KGKT	1	Digi-Key	100	222940	0,07	6,99	USD
25	LED4	LEDs	LED ORANGE CLEAR 0805 SMD	0805	Vishay Lite-On	LTST-C171AKT	1	Digi-Key	100	21402	0,07	7,44	
26	LS1	Audio Components	BUZZER MAGNETIC 5V 12MM PTH	PTH-2	S&S	SUN-12095-5VPA7.6	1	LCSC	100	11010	0,14	14,11	
27	Q1, Q2, Q3	MOSFETs	MOSFET N-CH 60V 115MA SOT23-3	SOT-23-3	Diodes	2N7002-7-F	3	Digi-Key	300	1705094	0,10	30,42	
28	Q4, Q5, Q6	MOSFETs	MOSFET P-CH 30V 3A SOT23-3	SOT-23-3	UMW(Youtai Semiconductor)	SI2307A	3	LCSC	300	17490	0,04	11,01	USD
29	R1, R4, R20	Chip SMD Resistors	RES SMD 100K OHM 1% 1/10W 0603	0603	Yageo	RC0603FR-07100KL	3	Digi-Key	300	12919143	0,01	2,31	
30	R2	Chip SMD Resistors	RES SMD 56.2K OHM 1% 1/10W 0603	0603	Yageo	RC0603FR-0756K2L	1	Digi-Key	100	367565	0,01	0,77	USD
31	R3, R6, R10, R11, R15, R17, R25, R26, R27, R30, R31, R35, R36, R37, R41, R43, R50, R53	Chip SMD Resistors	RES SMD 10K OHM 1% 1/10W 0603	0603	Yageo	RC0603FR-0710KL	18	Digi-Key	1800	41977694	0,00	6,21	USD
32	R5	Chip SMD Resistors	RES SMD 33.2K OHM 1% 1/10W 0603	0603	Yageo	RC0603FR-0733K2L	1	Digi-Key	100	2009595	0.01	0.77	USD

33	R7, R8, R12, R16, R19,	Chip SMD Resistors	RES SMD 330 OHM 1% 1/10W 0603	0603	Yageo	RC0603FR-07330RL	9	Digi-Key	900	2536666	0,01	6,93 USD
34	R21, R34, R40, R44 R9, R23	Chip SMD Resistors	RES SMD 0 OHM JUMPER 1/10W 0603	0603	Yageo	RC0603FR-070RL	2	Digi-Key	200	3767604	0,01	1,46 USD
	-, -		RES SMD 0 OHM JUMPER 1/10W 0603	0603	·	RC0603FR-073K3L	2		200	3018816		1,46 USD
35 36	R13, R14 R18	Chip SMD Resistors Chip SMD Resistors	RES SMD 3R3 OHM 1% 1/10W 0603	0603	Yageo	RC0603FR-0722RL	2	Digi-Key	100	4713469	0,01	0,77 USD
	-				Yageo		1	Digi-Key			-	
37	R22, R24	Chip SMD Resistors	RES SMD 60.4 OHM 1% 1/10W 0603	0603	Yageo	RC0603FR-0760R4L	2	Digi-Key	200	475116	0,01	1,54 USD
38	R28, R29, R32, R33, R38, R39, R46, R47, R49, R51, R52, R55, R56	Chip SMD Resistors	RES SMD 1K OHM 1% 1/10W 0603	0603	Yageo	RC0603FR-071KL	13	Digi-Key	1300	30866432	0,00	4,49 USD
39	R42, R54	Chip SMD Resistors	RES SMD 0.1 OHM 1% 2W 2512	2512	Yageo	PE2512FKE7W0R1L	2	Digi-Key	200	5969	0,22	44,94 USD
40	R45	Chip SMD Resistors	RES SMD 1M OHM 1% 1/10W 0603	0603	Yageo	RC0603FR-071ML	1	Digi-Key	100	2959239	0,01	0,77 USD
41	R48	Chip SMD Resistors	RES SMD 270K OHM 1% 1/10W 0603	0603	Yageo	RC0603FR-07270KL	1	Digi-Key	100	272715	0,01	0,77 USD
42	SW1	Pushbutton Switches	SWITCH TACTILE SPST-NO 5.74MM	PTH-4	TE Connectivity	FSMRA4JH	1	Digi-Key	100	123769	0,25	25,32 USD
43	TP1, TP2, TP3	Connectors	TEST POINT LOOP	PTH-1	Keystone Electronics	1041	3	Digi-Key	300	18762	0,19	57,86 USD
44	U1, U2	Voltage Regulators - Switching	DCDC BUCK 2A TSOT26	TSOT-26-6	Diodes	AP62200TWU-7	2	Digi-Key	200	20589	0,26	52,24 USD
45	U3	Interface ICs	IC USB-TO-UART BRIDGE 16SOIC	SOIC-16	WCH(Jiangsu Qin Heng)	CH340C	1	LCSC				
46	U4	RF Transceiver Modules	WIFI + BLUETOOTH MCU MODULE	SMD-38	Espressif Systems	ESP32-WROOM-32E-N8	1	LCSC	100	594	3,30	330,00 USD
47	U5	Interface ICs	IC I/O EXPANDER I2C 16TSSOP	TSSOP-16	NXP Semiconductors	PCA9557PW,118	1	LCSC	100	24430	1,23	122,52 USD
48	U6	Interface ICs	IC TRANSCEIVER HALF CANBUS 8SOIC	SOIC-8	NXP Semiconductors	TJA1042T/1J	1	LCSC	100	24244	1,34	134,00 USD
49	U7	Interface ICs	IC TRANSCEIVER LIN 8SOIC	SOIC-8	NXP Semiconductors	TJA1021T/20/CM,118	1	LCSC	100	5426	0,56	56,48 USD
50	U8	RF Transceivers	IC RF 2.4GHz TRANSCEIVER 8SOIC	SOIC-8	Nanjing Zhongke Microelectronics	Ci24R1	1	LCSC				
51	U9, U10, U11, U12, U14, U15	Optocouplers	IC OPTOCOUPLER TRANSISTOR 4-SMD	SMD-4	Goodwork	PC817C	6	LCSC	600	111140	0,03	19,26 USD
52	U13, U17	Sensors	IC CURRENT-SENSING SOT-23-3	SOT-23-3	Tech Public	TP1001S3	2	LCSC	200	8176	0,23	46,14 USD
53	U16	ICs Drivers	IC DRIVER DC MOTOR 3.6A 8SOIC	SOIC-8	Texas Instruments	DRV8870DDAR	1	Digi-Key	100	31659	1,83	183,33 USD
54	X1	Headers and Wire Housings	CONN RCPT HSG 16POS 4.20MM	CABLE-16	Molex	39-01-2160	1	Digi-Key	100	27547	0,53	52,62 USD
55	Y1	Crystal	CRYSTAL 16.0000MHZ 10PPM 9PF SMD	SMD-4	ECS International	ECS-160-9-37-CKM-TR3	1	Digi-Key	100	30907	0,28	28,28 USD
						164		16200		•	1906,44	
Appro	Approved Notes								i			

100 pcs: Total

Price for 1pcs

1906,44 USD

19,06 USD