

Component list

File: Bill of Materials
Project: On-Board Central Processor.PrjPcb
Variant: Lite

Report Date: 11/01/2023 15:33
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Bill of Materials for Variant [Lite] of Project [On-Board Central Processor.PrjPcb] (No PCB Document Selected)

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#	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, C24, C29, C33, C37, C38, C39, C40, C41, C43, C44, C45	Ceramic Capacitors	CAP CER 100NF 50V X7R 0603	0603	Samsung	CL10B104KB8NNNC	21	Digi-Key	2100	19618540	0,01	14,11	USD
2	C2, C5, C10, C18, C23, C28, C32, C42	Ceramic Capacitors	CAP CER 10UF 25V X5R 0805	0805	Samsung	CL21A106KAYNNNE	8	Digi-Key	800	1513304	0,04	33,84	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 NP0 0603	0603	Yageo	CC0603BRNPO9B1R0	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	D4	Rectifier Diodes	DIODE SCHOTTKY 40V 1A SMA	SMA	Diodes	B140-13-F	1	Digi-Key	100	624124	0,17	17,26	USD
13	D5, D7, D8, D9, D10, D11, D12	Schottky Diodes	DIODE SCHOTTKY 30V 200MA SOD323	SOD-323-2	ON Semiconductor / Fairchild	BAT54HT1G	7	LCSC	700	74580	0,07	48,69	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	USD
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	Q1, Q2	MOSFETs	MOSFET N-CH 60V 115MA SOT23-3	SOT-23-3	Diodes	2N7002-7-F	2	Digi-Key	200	1705094	0,10	20,28	USD
24	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
25	R1, R4	Chip SMD Resistors	RES SMD 100K OHM 1% 1/10W 0603	0603	Yageo	RC0603FR-07100KL	2	Digi-Key	200	12919143	0,01	1,54	USD
26	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
27	R3, R6, R10, R11, 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	16	Digi-Key	1600	41977694	0,00	5,52	USD
28	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
29	R7, R8, R12, R34, R40, R44	Chip SMD Resistors	RES SMD 330 OHM 1% 1/10W 0603	0603	Yageo	RC0603FR-07330RL	6	Digi-Key	600	2536666	0,01	4,62	USD
30	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
31	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

32	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
33	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
34	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
35	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
36	TP1, TP2	Connectors	TEST POINT LOOP	PTH-1	Keystone Electronics	1041	2	Digi-Key	200	18762	0,21	42,96	USD
37	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
38	U3	Interface ICs	IC USB-TO-UART BRIDGE 16SOIC	SOIC-16	WCH(Jiangsu Qin Heng)	CH340C	1	LCSC					
39	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
40	U6	Interface ICs	IC TRANSCEIVER HALF CANBUS 8SOIC	SOIC-8	NXP Semiconductors	TJA1042T/1J	1	LCSC	100	24244	1,34	134,00	USD
41	U7	Interface ICs	IC TRANSCEIVER LIN 8SOIC	SOIC-8	NXP Semiconductors	TJA1021T/20/CM,118	1	LCSC	100	5426	0,56	56,48	USD
42	U8	RF Transceivers	IC RF 2.4GHz TRANSCEIVER 8SOIC	SOIC-8	Nanjing Zhongke Microelectronics	Ci24R1	1	LCSC					
43	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
44	U13, U17	Sensors	IC CURRENT-SENSING SOT-23-3	SOT-23-3	Tech Public	TP1001S3	2	LCSC	200	8176	0,23	46,14	USD
45	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
46	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
47	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
							143		14100	1675,12			
Approved			Notes			100 pcs: Total			1675,12 USD				
						Price for 1pcs			16,75 USD				