

Component list

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

Report Date: 11/01/2023 15:37
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Bill of Materials for Variant [Sniffer] 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, C21, C22, C24, C29, C33, C39	Ceramic Capacitors	CAP CER 100NF 50V X7R 0603	0603	Samsung	CL10B104KB8NNNC	16	Digi-Key	1600	19618540	0,01	10,75	USD
2	C2, C5, C10, C18, C20, C23, C28, C32	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 220PF 50V NP0 0603	0603	Samsung	CL10C221JB8NNNC	1	Digi-Key	100	270558	0,01	1,42	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	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, D7, D9	Schottky Diodes	DIODE SCHOTTKY 30V 200MA SOD323	SOD-323-2	ON Semiconductor / Fairchild	BAT54HT1G	3	LCSC	300	74580	0,11	31,71	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		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	Ferrite Beads and Chips	FERRITE BEAD 220 OHM 0603	0603	Murata	BLM18KG221BH1D	9	Digi-Key	900	10241	0,03	29,36	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	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	USD
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	USD
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	USD
28	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	USD
29	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
30	R3, R6, R10, R11, R15, R17, R25, R26, R27	Chip SMD Resistors	RES SMD 10K OHM 1% 1/10W 0603	0603	Yageo	RC0603FR-0710KL	9	Digi-Key	900	41977694	0,01	6,93	USD
31	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
32	R7, R8, R12, R16, R19, R21	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
33	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
34	R13, R14	Chip SMD Resistors	RES SMD 3K3 OHM 1% 1/10W 0603	0603	Yageo	RC0603FR-073K3L	2	Digi-Key	200	3018816	0,01	1,54	USD
35	R18	Chip SMD Resistors	RES SMD 22 OHM 1% 1/10W 0603	0603	Yageo	RC0603FR-0722RL	1	Digi-Key	100	4713469	0,01	0,77	USD
36	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

37	R29, R46	Chip SMD Resistors	RES SMD 1K OHM 1% 1/10W 0603	0603	Yageo	RC0603FR-071KL	2	Digi-Key	200	30866432	0,01	1,54	USD
38	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
39	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
40	SW1	Pushbutton Switches	SWITCH TACTILE SPST-NO 5.74MM	PTH-4	TE Connectivity	FSMRA4JH	1	Digi-Key	100	123769	0,25	25,32	USD
41	TP1, TP2, TP3	Connectors	TEST POINT LOOP	PTH-1	Keystone Electronics	1041	3	Digi-Key	300	18762	0,19	57,86	USD
42	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
43	U3	Interface ICs	IC USB-TO-UART BRIDGE 16SOIC	SOIC-16	WCH(Jiangsu Qin Heng)	CH340C	1	LCSC					
44	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
45	U5	Interface ICs	IC I/O EXPANDER I2C 16TSSOP	TSSOP-16	NXP Semiconductors	PCA9557PW,118	1	LCSC	100	24430	1,23	122,52	USD
46	U6	Interface ICs	IC TRANSCEIVER HALF CANBUS 8SOIC	SOIC-8	NXP Semiconductors	TJA1042T/1J	1	LCSC	100	24244	1,34	134,00	USD
47	U7	Interface ICs	IC TRANSCEIVER LIN 8SOIC	SOIC-8	NXP Semiconductors	TJA1021T/20/CM,118	1	LCSC	100	5426	0,56	56,48	USD
48	U8	RF Transceivers	IC RF 2.4GHz TRANSCEIVER 8SOIC	SOIC-8	Nanjing Zhongke Microelectronics	Ci24R1	1	LCSC					
49	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
50	Y1	Crystal	CRYSTAL 16.000MHZ 10PPM 9PF SMD	SMD-4	ECS International	ECS-160-9-37-CKM-TR3	1	Digi-Key	100	30907	0,28	28,28	USD
							113		11100	1566,32			
Approved			Notes			100 pcs: Total			1566,32 USD				
						Price for 1pcs			15,66 USD				