

ASMPCB-STAC-V1

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Quantity to Build: 1
 Part List Revision: A
 Purchase List Number: 001
 List Release Date: 11/13/2023

Item	Qty	Part Number	Description	Reference	
		Vendor Name	Vendor Part Number	Manf Name	Manf Part Number
1	1	BW-023-157	IC custom STAC-V1 die 64 pins 0.5mm pitch QFN-64 w/EP BWRC		U6
		None			
2	14	BW-663-053	Cap ceramic 0.1uF 16V 5% X7R 0603 Kemet C0603C104J4RACTU		C4 C25 C26 C27 C28 C29 C30 C31 C38 C39 C40 C41 C42 C43
		Digi-Key 399-1097-1-ND	Kemet C0603C104J4RACTU		
3	2	BW-367-353	Cap ceramic 0.47uF 10V 10% X7R 0603 Yageo CC0603KRX7R6BB474		C11 C14
		Digi-Key 311-1798-1-ND	Yageo CC0603KRX7R6BB474		
4	1	BW-183-150	Cap ceramic 3.3uF 10V 10% X5R 0603 Samsung CL10A335KP8NNNC		C32
		Digi-Key 1276-1892-1-ND	Samsung CL10A335KP8NNNC		
5	6	BW-171-235	Cap ceramic 4.7uF 35V 10% X5R 0603 Murata GRM188R6YA75KE15D		C9 C10 C12 C13 C23 C24
		Digi-Key 490-7205-1-ND	Murata GRM188R6YA75KE15D		
6	15	BW-224-068	Cap ceramic 10uF 25V 20% X5R 0603 Murata GRM188R61E106MA73D		C1 C3 C15 C16 C17 C18 C19 C20 C21 C22 C33 C34 C35 C36 C37
		Digi-Key 490-7202-1-ND	Murata GRM188R61E106MA73D		
7	5	BW-998-821	Cap aluminum polymer 220uF 16V 20% SMD, 6.3mm dia. Panasonic 16SVPK220M		C2 C5 C6 C7 C8
		Digi-Key P124158CT-ND	Panasonic 16SVPK220M		

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		Vendor Name	Vendor Part Number	Manf Name Manf Part Number
8	2	BW-517-054	Con 3 pin 100 mil pitch 1x3 TSW str male thru 0.230" post he Samtec TSW-103-07-G-S	J4 J5
		Digi-Key SAM1029-03-ND	Samtec TSW-103-07-G-S	
9	3	BW-491-171	Con 4 pin 100 mil pitch 1x4 TSW str male thru 0.230" post he Samtec TSW-104-07-G-S	J1 J3 J9
		Digi-Key SAM1029-04-ND	Samtec TSW-104-07-G-S	
10	3	BW-220-198	Con 12 pin 100 mil pitch 2x5 TSW RA male thru 0.230" post f Samtec TSW-106-08-L-D-RA	J6 J10 J12
		Digi-Key SAM1041-06-ND	Samtec TSW-106-08-L-D-RA	
11	2	BW-510-530	Con 16 pin 100 mil pitch 2x8 TSW str male thru Samtec TSW-108-07-L-D	J14 J16
		Digi-Key SAM1030-08-ND	Samtec TSW-108-07-L-D	
12	1	BW-350-204	Con 6 pin 2.5mm pitch 2x3 Nano Fit RA male thru shrouded Molex 1053141106	J2
		Digi-Key WM16908-ND	Molex 1053141106	
13	7	BW-867-891	Con SMA female jack end launch 50 ohm 18GHz PCB long pin Cinch 142-0701-801	J7 J8 J11 J13 J15 J17 J18
		Digi-Key J502-ND	Cinch 142-0701-801	
14	1	BW-536-719	Con USB-C 2.0 recp R/A SMT Amphenol 12402012E212A	J19
		Digi-Key 664-12402012E212ACT-ND	Amphenol Comme 12402012E212A	

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15	1	BW-479-949	Osc 12MHz with capacitors 3-pin Murata CSTNE12M0GH5L000R0		X1
		Digi-Key 490-17947-1-ND	Murata CSTNE12M0GH5L000R0		
16	1	BW-674-698	IC TS3A27518EPWR 6-ch analog mux TSSOP-24 TI TS3A27518EPWR		U8
		Digi-Key 296-24570-1-ND	Texas Instrume TS3A27518EPWR		
17	1	BW-250-920	IC IS25LP128-JBLE 128Mbit QSPI flash SOIC-8 ISSI IS25LP128-JBLE		U9
		Digi-Key 706-1341-ND	ISSI IS25LP128-JBLE		
18	1	BW-157-496	IC FT2232HL USB to UART/FIFO LQFP-64 FTDI FT2232HL		U7
		Digi-Key 768-1024-1-ND	FTDI FT2232HL-REEL		
19	2	BW-746-991	IC LT3042 adj LDO regulator 200mA MSOP-EP-10 Analog Devices LT3042IMSE#TRPBF		U3 U5
		Digi-Key LT3042IMSE#TRPBFCT-ND	Analog Devices LT3042IMSE#TRPBF		
20	1	BW-849-997	IC LT3083 LDO regulator 3A DDPK-5 Analog Devices LT3083EQ#PBF		U1
		Digi-Key 505-LT3083EQ#PBF-ND	Analog Devices LT3083EQ#PBF		
21	1	BW-843-693	IC LTC4365CTS8#TRMPBF Analog Devices LTC4365 Surge Suppressor		U4
		Digi-Key 505-LTC4365CTS8#TRMPBFCT-ND	Analog Devices LTC4365CTS8#TRMPBF		

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		Vendor Name	Vendor Part Number	Manf Name	Manf Part Number
22	2	BW-885-747	LED 470nm (blue) 2.65V 2mA 0603 SMT Kingbright APT1608LVBC/D		D2 D3
		Digi-Key 754-1933-1-ND	Kingbright APT1608LVBC/D		
23	1	BW-747-432	LED 565nm (green) 2.2V 0603 surface-mount Lumex SML-LX0603GW-TR		D1
		Digi-Key 67-1549-1-ND	Lumex SML-LX0603GW-TR		
24	1	BW-471-924	MOSFET N-CH dual 60V 35A SOT-1205 Nexperia BUK9K12-60EX		U2
		Digi-Key 1727-1897-1-ND	Nexperia BUK9K12-60EX		
25	1	BW-528-389	Res 12K 0.5% 1/10W 0603 Panasonic		R26
		Digi-Key P123739CT-ND	Panasonic ERA-3AED123V		
26	2	BW-592-449	Res 27 1% 1/10W 0603 Panasonic ERJ-3EKF27R0V		R17 R18
		Digi-Key P27.0HCT-ND	Panasonic ERJ-3EKF27R0V		
27	3	BW-354-763	Res 301 1% 1/10W 0603 Panasonic ERA-3AEB3010V		R8 R11 R13
		Digi-Key P301DBCT-ND	Panasonic ERA-3AEB3010V		
28	1	BW-812-714	Res 909 1% 1/10W 0603 Panasonic ERJ-3EKF9090V		R1
		Digi-Key P909HCT-ND	Panasonic ERJ-3EKF9090V		

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		Vendor Name	Vendor Part Number	Manf Name	Manf Part Number
29	2	BW-342-327	Res 1K 1% 1/10W 0603 Panasonic ERJ-U03F1001V		R25 R27
		Digi-Key	10-ERJ-U03F1001VCT-ND	Panasonic	ERJ-U03F1001V
30	10	BW-200-113	Res 5.1K 1% 1/10W 0603 Panasonic ERJ-3EKF5101V		R19 R20 R28 R29 R30 R32 R33 R35 R36 R38
		Digi-Key	P5.10KHCT-ND	Panasonic	ERJ-3EKF5101V
31	7	BW-038-468	Res 10K 1% 1/10W 0603 Yageo RC0603FR-0710KL		R22 R23 R24 R31 R34 R37 R39
		Digi-Key	311-10.0KHRCT-ND	Yageo	RC0603FR-0710KL
32	1	BW-446-612	Res 15K 1% 1/10W 0603 Panasonic		R6
		Digi-Key	P15.0KHCT-ND	Panasonic	ERJ-3EKF1502V
33	1	BW-628-791	Res 33.2K 1% 1/10W 0603 Panasonic ERJ-3EKF3322V		R12
		Digi-Key	P33.2KHCT-ND	Panasonic	ERJ-3EKF3322V
34	1	BW-131-959	Res 82.5K 1% 1/10W 0603 Panasonic ERJ-3EKF8252V		R7
		Digi-Key	P82.5KHCT-ND	Panasonic	ERJ-3EKF8252V
35	1	BW-606-753	Res 93.1K 1% 1/10W 0603 Panasonic ERJ-3EKF9312V		R2
		Digi-Key	P93.1KHCT-ND	Panasonic	ERJ-3EKF9312V

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		Vendor Name	Vendor Part Number	Manf Name	Manf Part Number
36	1	BW-760-287	Res 200K 1% 1/10W 0603 Panasonic ERJ-3EKF2003V		R3
		Digi-Key P200KHCT-ND	Panasonic ERJ-3EKF2003V		
37	1	BW-560-201	Res 215K 1% 1/10W 0603 Panasonic ERJ-3EKF2153V		R10
		Digi-Key P215KHCT-ND	Panasonic ERJ-3EKF2153V		
38	1	BW-514-032	Res 510K 1% 1/10W 0603 Panasonic ERJ-3EKF5103V		R4
		Digi-Key P510KHCT-ND	Panasonic ERJ-3EKF5103V		
39	2	BW-796-398	Res 330 5% 1/10W 0603 Panasonic ERJ-3GEYJ331V		R15 R16
		Digi-Key P330GCT-ND	Panasonic ERJ-3GEYJ331V		
40	1	BW-421-162	Res 2.7M 5% 1/10W 0603 Panasonic ERJ-3GEYJ275V		R5
		Digi-Key P2.7MGCT-ND	Panasonic ERJ-3GEYJ275V		
41	1	BW-764-694	Res 0 1/10W 0603 Yageo RC0603JR-070RL		R14
		Digi-Key 311-0.0GRCT-ND	Yageo RC0603JR-070RL		
42	1	BW-257-784	Res var trimmer pot 5K 1/4W 3-pin SMT Bourns 3214X-1-502E		R9
		Digi-Key 3214X-1-502ECT-ND	Bourns 3214X-1-502E		

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		Vendor Name	Vendor Part Number	Manf Name	Manf Part Number
43	1	BW-431-238	Switch slide SPDT ST thru Würth 450301014042		S1
		Digi-Key 450301014042-ND	Würth 450301014042		
44	2	BW-591-967	Switch momentary SPST-NO tactile 2 pin J-lead low-profile 2 C&K PTS636 SK25J SMTR LFS		S2 S4
		Digi-Key CKN12326-1-ND	C&K PTS636 SK25J SMTR LFS		
45	1	BW-020-728	Switch DIP 4 position, 8 pin, SPST SMT Würth 418121270804		S3
		Digi-Key 732-6963-1-ND	Würth 418121270804		
46	1	BW-602-053	Test point loop 63mil dia hole orange Keystone 5008		T4
		Digi-Key 36-5008-ND	Keystone 5008		
47	1	BW-966-768	Test point loop 63mil dia hole black Keystone 5006		T10
		Digi-Key 36-5006-ND	Keystone 5006		
48	2	BW-067-710	Test point loop 63mil dia hole yellow Keystone 5009		T11 T12
		Digi-Key 36-5009-ND	Keystone 5009		
49	1	BW-818-101	IC APS6404L-3SQR-SN PseudoSRAM PSRAM 8Mx8bits SPI/Q! AP Memory APS6404L-3SQR-SN		U10
		Mouser 878-APS6404L-3SQR-SN	AP Memory APS6404L-3SQR-SN		