ASMPCB-STAC-V1

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Quantity to Build:	7
Part List Revision:	A
Purchase List Number:	001
List Release Date:	12/14/2023

Item	Qty	Part Number	Description	Reference
	Loc	Sort Code		
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Item	Qty / Loc	Part Number / Sort Code	Description	Reference
1	133 / *A1	BW-663-053 / CAPC-0603 0.1uF 16V	Cap ceramic 0.1uF 16V 5% X7R 0603 Kemet C0603C104J4RACTU None Digi-Key 399-C0603C104J4RAC7867TR-ND Mouser 80-C0603C104J4R	C4 C23 C24 C25 C26 C27 C28 C29 C32 C34 C44 C45 C46 C47 C48 C49 C50 C51 C52
2	7 / *C2	BW-023-157 / DIE-CUSTOM STAC-V1	IC custom STAC-V1 die 64 pins 0.5mm pitch QFN-64 w/EP BWRC None	U6
3	100 / *A2	BW-367-353 / CAPC-0603 0.47uF 10V	Cap ceramic 0.47uF 10V 10% X7R 0603 Yageo CC0603KRX7R6BB474 Digi-Key 311-1798-1-ND Yageo CC0603KRX7R6BB474	C11 C14
4	100 / *A3	BW-183-150 / CAPC-0603 3.3uF 10V	Cap ceramic 3.3uF 10V 10% X5R 0603 Samsung CL10A335KP8NNNC Digi-Key 1276-1892-1-ND Samsung CL10A335KP8NNNC	C36
5	100 / *A4	BW-171-235 / CAPC-0603 4.7uF 35V	Cap ceramic 4.7uF 35V 10% X5R 0603 Murata GRM188R6YA75KE15D Digi-Key 490-7205-1-ND Murata GRM188R6YA75KE15D	C9 C10 C12 C13 C31 C33
6	140 / *A5	BW-224-068 / CAPC-0603 10uF 25V	Cap ceramic 10uF 25V 20% X5R 0603 Murata GRM188R61E106MA73D Digi-Key 490-7202-1-ND Murata GRM188R61E106MA73D	C1 C3 C15 C16 C17 C18 C19 C20 C21 C22 C30 C35 C37 C38 C39 C40 C41 C42 C43
7	40 / *A6	BW-998-821 / CAPE-AL-GP 220uF 16V	Cap aluminum polymer 220uF 16V 20% SMD, 6.3mm dia. Panasonic 16SVPK220M Digi-Key P124158CT-ND Panasonic 16SVPK220M	C2 C5 C6 C7 C8

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8	14	BW-038-636	Con 2 pin 100 mil pitch 1x2 TSW str male thru 0.230" post he Samtec TSW-102-07-G-S	J19 J23
	*A7	CON-100 TSW 2		
	Digi-Key SAM1029-02-ND		Samtec TSW-102-07-G-S	

9	21	BW-517-054	Con 3 pin 100 mil pitch 1x3 TSW str male thru 0.230" post he Samtec TSW-103-07-G-S	J2 J3 J18
	*A8	CON-100 TSW 3		
	Digi-Key SAM1029-03-ND		Samtec TSW-103-07-G-S	

10	7	BW-491-171	Con 4 pin 100 mil pitch 1x4 TSW str male thru 0.230" post he Samtec TSW-104-07-G-S	J7
	*B1	CON-100 TSW 4		
	Digi-Key SAM1029-04-ND		Samtec TSW-104-07-G-S	

11	21	BW-623-913	Con 8 pin 100 mil pitch 2x4 TSW str male thru 0.230" post he Samtec TSW-104-07-L-D	J20 J21 J22
	*B2	CON-100 TSW 8		
	Digi-Key SAM1030-04-ND		Samtec TSW-104-07-L-D	

12	21	BW-220-198	Con 12 pin 100 mil pitch 2x6 TSW RA male thru 0.230" post h Samtec TSW-106-08-L-D-RA	J4 J8 J10
	*B3	CON-100 TSW 12		
	Digi-Key SAM1041-06-ND		Samtec TSW-106-08-L-D-RA	

13	7	BW-137-712	Con 12 pin 100 mil pitch 2x6 SSW socket female thru 0.230" Samtec SSW-106-01-G-D	J14
	*B4	CON-100 SSW 12		
	Digi-Key SAM1208-06-ND		Samtec SSW-106-01-G-D	

14	7	BW-510-530	Con 16 pin 100 mil pitch 2x8 TSW str male thru Samtec TSW-108-07-L-D	J12
	*B5	CON-100 TSW 16		
	Digi-Key SAM1030-08-ND		Samtec TSW-108-07-L-D	

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15	7	BW-350-204	Con 6 pin 2.5mm pitch 2x3 Nano Fit RA male thru shrouded	J1
	*B6	CON-2.5MM Nano Fit 6	Molex 1053141106	
		Digi-Key WM16908-ND	Molex 1053141106	

16	50	BW-867-891	Con SMA female jack end launch 50 ohm 18GHz PCB long pin	J5 J6 J9 J11 J13 J15 J16
	*B7	CON-RF SMA edge mnt	Cinch 142-0701-801	
		Digi-Key J502-ND	Cinch 142-0701-801	

17	7	BW-536-719	Con USB-C 2.0 recp R/A SMT	J17
	*B8	CON-USB C	Amphenol 12402012E212A	
		Digi-Key 664-12402012E212ACT-ND	Amphenol Comme 12402012E212A	

18	10	BW-479-949	Osc 12MHz with capacitors 3-pin	X1
	*C1	CRY-OSC 12MHz	Murata CSTNE12M0GH5L000R0	
		Digi-Key 490-17947-1-ND	Murata CSTNE12M0GH5L000R0	

19	10	BW-633-217	Fuse PTC reset 6V 1.5A 1206	F1
	*C3	FUSE 1.5A	Eaton PTSLR12066V150	
		Digi-Key 283-PTSLR12066V150CT-ND	Eaton PTSLR12066V150	

20	7	BW-674-698	IC TS3A27518EPWR 6-ch analog mux TSSOP-24	U9
	*C4	IC TS3A27518EPWR	TI TS3A27518EPWR	
		Digi-Key 296-24570-1-ND	Texas Instrume TS3A27518EPWR	

21	7	BW-250-920	IC IS25LP128-JBLE 128Mbit QSPI flash SOIC-8	U10
	*C5	IC IS25LP128-JBLE	ISSI IS25LP128-JBLE	
		Digi-Key 706-1341-ND	ISSI IS25LP128-JBLE	

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22	7	BW-913-765	IC 93LC56BT-I/OT 2K I2C EEPROM SOT23-6		U8
	*C6	IC 93LC56BT-I/OT	Microchip 93LC56BT-I/OT		
		Digi-Key 93LC56BT-I/OTCT-ND		Microchip 93LC56BT-I/OT	

23	7	BW-157-496	IC FT2232HL USB to UART/FIFO LQFP-64		U7
	*C7	IC FT2232HL	FTDI FT2232HL		
		Digi-Key 768-1024-1-ND		FTDI FT2232HL-REEL	

24	14	BW-746-991	IC LT3042 adj LDO regulator 200mA MSOP-EP-10		U3 U5
	*C8	IC LT3042	Analog Devices LT3042IMSE#TRPBF		
		Digi-Key LT3042IMSE#TRPBFCT-ND		Analog Devices LT3042IMSE#TRPBF	

25	7	BW-849-997	IC LT3083 LDO regulator 3A TAB pkg		U1
	*D1	IC LT3083	Analog Devices LT3083EQ#PBF		
		Digi-Key 505-LT3083EQ#PBF-ND		Analog Devices LT3083EQ#PBF	

26	7	BW-843-693	IC LTC4365CTS8#TRMPBF		U4
	*D2	IC LTC4365CTS8#TRMPBF	Analog Devices LTC4365 Surge Surpressor		
		Digi-Key 505-LTC4365CTS8#TRMPBFCT-ND		Analog Devices LTC4365CTS8#TRMPBF	

27	20	BW-227-124	Inductor 1uH 3.3A shielded 1008 pkg		L1 L2
	*D4	IND-1008 1uH 3.3A	Murata DFE252012F-1R0M=P2		
		Digi-Key 490-13053-1-ND		Murata DFE252012F-1R0M=P2	

28	100	BW-885-747	LED 470nm (blue) 2.65V 2mA 0603 SMT		D3 D5 D6
	*D5	LED blue	Kingbright APT1608LVBC/D		
		Digi-Key 754-1933-1-ND		Kingbright APT1608LVBC/D	

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29	100	BW-747-432	LED 565nm (green) 2.2V 0603 surface-mount	D1 D2 D8
	*D6	LED green	Lumex SML-LX0603GW-TR	
		Digi-Key 67-1549-1-ND	Lumex SML-LX0603GW-TR	

30	100	BW-219-501	LED 660nm (red) 1.7V 0603 SMT	D4
	*D7	LED red	VCC 7017X1	
		Digi-Key 7017X1CT-ND	V C C 7017X1	

31	100	BW-087-782	LED 631nm (red) 2V 5mA 0603 SMT	D7
	*D8	LED red	Lite-On LTST-C193KRKT-5A	
		Digi-Key 160-1830-1-ND	Liteon LTST-C193KRKT-5A	

32	7	BW-471-924	MOSFET N-CH dual 60V 35A SOT-1205	U2
	*E1	Q-NMOS BUK9K12-60EX	Nexperia BUK9K12-60EX	
		Digi-Key 1727-1897-1-ND	Nexperia BUK9K12-60EX	

33	100	BW-611-992	Res 10 0.05% 1/10W 0603	R20 R21
	*E2	R.05%-0603 10	Stackpole RNCF0603AKT10R0	
		Digi-Key RNCF0603AKT10R0CT-ND	Stackpole RNCF0603AKT10R0	

34	100	BW-528-389	Res 12K 0.5% 1/10W 0603	R30
	*E3	R.5%-0603 12K	Panasonic	
		Digi-Key P123739CT-ND	Panasonic ERA-3AED123V	

35	100	BW-146-387	Res 75 1% 1/10W 0603	R15
	*E4	R1%-0603 75	Stackpole RMCF0603FT75R0	
		Digi-Key RMCF0603FT75R0CT-ND	Stackpole RMCF0603FT75R0	

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36	100	BW-784-622	Res 250 0.1% 1/10W 0603	R12 R28
	*E5	R1%-0603 250	Yageo RT0603BRE07250RL	
		Digi-Key 13-RT0603BRE07250RLCT-ND	Yageo RT0603BRE07250RL	
37	100	BW-354-763	Res 301 1% 1/10W 0603	R8 R11 R16
	*E6	R1%-0603 301	Panasonic ERA-3AEB3010V	
		Digi-Key P301DBCT-ND	Panasonic ERA-3AEB3010V	
38	100	BW-812-714	Res 909 1% 1/10W 0603	R1
	*E8	R1%-0603 909	Panasonic ERJ-3EKF9090V	
		Digi-Key P909HCT-ND	Panasonic ERJ-3EKF9090V	
39	100	BW-005-683	Res 2.2K 1% 1/10W 0603	R33
	*F1	R1%-0603 2.2K	Yageo RC0603FR-132K2L	
		Digi-Key 13-RC0603FR-132K2LCT-ND	Yageo RC0603FR-132K2L	
40	100	BW-725-833	Res 4.7K 1% 1/10W 0603	R26
	*F2	R1%-0603 4.7K	Panasonic ERJ-3EKF4701V	
		Digi-Key P4.70KHCT-ND	Panasonic ERJ-3EKF4701V	
41	126	BW-200-113	Res 5.1K 1% 1/10W 0603	R23 R24 R34 R35 R36 R37 R38 R39 R40 R41 R42 R43 R44 R45 R46 R47 R48 R49
	*F3	R1%-0603 5.1K	Panasonic ERJ-3EKF5101V	
		Digi-Key P5.10KHCT-ND	Panasonic ERJ-3EKF5101V	
42	100	BW-038-468	Res 10K 1% 1/10W 0603	R27 R29 R31 R32
	*F4	R1%-0603 10K	Yageo RC0603FR-0710KL	
		Digi-Key 311-10.0KHRCT-ND	Yageo RC0603FR-0710KL	

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43	100	BW-446-612	Res 15K 1% 1/10W 0603			R6
	*F5	R1%-0603 15K	Panasonic			
		Digi-Key P15.0KHCT-ND		Panasonic ERJ-3EKF1502V		

44	100	BW-628-791	Res 33.2K 1% 1/10W 0603			R13
	*F6	R1%-0603 33.2K	Panasonic ERJ-3EKF3322V			
		Digi-Key P33.2KHCT-ND		Panasonic ERJ-3EKF3322V		

45	100	BW-131-959	Res 82.5K 1% 1/10W 0603			R7
	*F7	R1%-0603 82.5K	Panasonic ERJ-3EKF8252V			
		Digi-Key P82.5KHCT-ND		Panasonic ERJ-3EKF8252V		

46	100	BW-303-795	Res 100K 1% 1/10W 0603			R2
	*F8	R1%-0603 100K	Panasonic ERJ-3EKF1003V			
		Digi-Key P100KHCT-ND		Panasonic ERJ-3EKF1003V		

47	100	BW-760-287	Res 200K 1% 1/10W 0603			R3
	*G1	R1%-0603 200K	Panasonic ERJ-3EKF2003V			
		Digi-Key P200KHCT-ND		Panasonic ERJ-3EKF2003V		

48	100	BW-560-201	Res 215K 1% 1/10W 0603			R10
	*G2	R1%-0603 215K	Panasonic ERJ-3EKF2153V			
		Digi-Key P215KHCT-ND		Panasonic ERJ-3EKF2153V		

49	100	BW-514-032	Res 510K 1% 1/10W 0603			R4
	*G3	R1%-0603 510K	Panasonic ERJ-3EKF5103V			
		Digi-Key P510KHCT-ND		Panasonic ERJ-3EKF5103V		

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50	100	BW-421-162	Res 2.7M 5% 1/10W 0603	R5
	*G4	R5%-0603 2.7M	Panasonic ERJ-3GEYJ275V	
	Digi-Key P2.7MGCT-ND		Panasonic ERJ-3GEYJ275V	
51	100	BW-532-263	Res 0 1/10W 0603	R17
	*G5	RES 0	Panasonic ERJ-3GEY0R00V	
	Digi-Key P0.0GCT-ND		Panasonic ERJ-3GEY0R00V	
52	7	BW-257-784	Res var trimmer pot 5K 1/4W 3-pin SMT	R9
	*G6	RVAR 5K	Bourns 3214X-1-502E	
	Digi-Key 3214X-1-502ECT-ND		Bourns 3214X-1-502E	
53	14	BW-522-992	Switch slide SPDT 3A 125V ST thru	S1 S2
	*G7	SW SPDT	NKK CS12ANW03	
	Digi-Key 360-2131-ND		NKK CS12ANW03	
54	7	BW-431-238	Switch slide SPDT ST thru	S3
	*G8	SW SPDT	Wurth 450301014042	
	Digi-Key 450301014042-ND		Wurth 450301014042	
55	21	BW-591-967	Switch momentary SPST-NO tactile 2 pin J-lead low-profile 2	S4 S6 S7
	*H1	SW SPST-NO	C&K PTS636 SK25J SMTR LFS	
	Digi-Key CKN12326-1-ND		C&K PTS636 SK25J SMTR LFS	
56	7	BW-977-175	Switch DIP 6 position, 12 pin, SMT	S5
	*H2	SW DIP-6	Wurth 418121270806	
	Digi-Key 732-6964-1-ND		Wurth 418121270806	

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57	100	BW-697-885	Diode TVS 24VWM 150VC 0603	E1 E2
	*H3	TASIL-BI PGB1010603MR	Littelfuse PGB1010603MR	
		Digi-Key F2594CT-ND	Littlefuse PGB1010603MR	

58	7	BW-602-053	Test point loop 63mil dia hole orange	T4
	*H4	TEST-PT 1	Keystone 5008	
		Digi-Key 36-5008-ND	Keystone 5008	

59	7	BW-966-768	Test point loop 63mil dia hole black	T10
	*H5	TEST-PT 1	Keystone 5006	
		Digi-Key 36-5006-ND	Keystone 5006	

60	14	BW-067-710	Test point loop 63mil dia hole yellow	T12 T13
	*H6	TEST-PT 1	Keystone 5009	
		Digi-Key 36-5009-ND	Keystone 5009	

61	7	BW-818-101	IC APS6404L-3SQR-SN PseudoSRAM PSRAM 8Mx8bits SPI/QS	U11
	*D3	IC APS6404L-3SQR-SN	AP Memory APS6404L-3SQR-SN	
		Mouser 878-APS6404L-3SQR-SN	AP Memory APS6404L-3SQR-SN	

62	100	BW-457-217	Res 330 1% 1/10W 0603	R14 R18 R19 R22
	*E7	R1%-0603 330	Panasonic ERJ-U03F3300V	
		Mouser Electroni 667-ERJ-U03F3300V	Panasonic ERJ-U03F3300V	
		Digi-Key Corporation 10-ERJ-U03F3300VCT-ND		