

ASMPCB-STAC-V1

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Quantity to Build: 1

Part List Revision: A

BOM Date: 11/22/2023

Item Loc	Qty	Part Number Sort Code	Description	Reference	
		Vendor Name	Vendor Part Number	Manf Name	Manf Part Number
1	19	BW-224-068	Cap ceramic 10uF 25V 20% X5R 0603		C1 C3 C15 C16 C17 C18 C19
		CAPC-0603 10uF 25V	Murata GRM188R61E106MA73D		C20 C21 C22 C30 C35 C37
		Digi-Key 490-7202-1-ND	Murata GRM188R61E106MA73D		C38 C39 C40 C41 C42 C43
2	5	BW-998-821	Cap aluminum polymer 220uF 16V 20% SMD, 6.3mm dia.		C2 C5 C6 C7 C8
		CAPE-AL-GP 220uF 16V	Panasonic 16SVPK220M		
		Digi-Key P124158CT-ND	Panasonic 16SVPK220M		
3	18	BW-663-053	Cap ceramic 0.1uF 16V 5% X7R 0603		C4 C23 C24 C25 C26 C27 C28
		CAPC-0603 0.1uF 16V	Kemet C0603C104J4RACTU		C29 C32 C34 C44 C45 C46
		Digi-Key 399-1097-1-ND	Kemet C0603C104J4RACTU		C47 C48 C49 C50 C51
4	6	BW-171-235	Cap ceramic 4.7uF 35V 10% X5R 0603		C9 C10 C12 C13 C31 C33
		CAPC-0603 4.7uF 35V	Murata GRM188R6YA75KE15D		
		Digi-Key 490-7205-1-ND	Murata GRM188R6YA75KE15D		
5	2	BW-367-353	Cap ceramic 0.47uF 10V 10% X7R 0603		C11 C14
		CAPC-0603 0.47uF 10V	Yageo CC0603KRX7R6BB474		
		Digi-Key 311-1798-1-ND	Yageo CC0603KRX7R6BB474		
6	1	BW-183-150	Cap ceramic 3.3uF 10V 10% X5R 0603		C36
		CAPC-0603 3.3uF 10V	Samsung CL10A335KP8NNNC		
		Digi-Key 1276-1892-1-ND	Samsung CL10A335KP8NNNC		
7	3	BW-747-432	LED 565nm (green) 2.2V 0603 surface-mount		D1 D2 D8
		LED green	Lumex SML-LX0603GW-TR		
		Digi-Key 67-1549-1-ND	Lumex SML-LX0603GW-TR		
8	3	BW-885-747	LED 470nm (blue) 2.65V 2mA 0603 SMT		D3 D5 D6
		LED blue	Kingbright APT1608LVBC/D		
		Digi-Key 754-1933-1-ND	Kingbright APT1608LVBC/D		
9	1	BW-219-501	LED 660nm (red) 1.7V 0603 SMT		D4
		LED red	VCC 7017X1		
		Digi-Key 7017X1CT-ND	VCC 7017X1		
10	1	BW-087-782	LED 631nm (red) 2V 5mA 0603 SMT		D7
		LED red	Lite-On LTST-C193KRKT-5A		
		Digi-Key 160-1830-1-ND	Liteon LTST-C193KRKT-5A		
11	2	BW-697-885	Diode TVS 24VWM 150VC 0603		E1 E2
		TASIL-BI PGB1010603MR	Littelfuse PGB1010603MR		
		Digi-Key F2594CT-ND	Littlefuse PGB1010603MR		

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12	1	BW-633-217 FUSE 1.5A	Fuse PTC reset 6V 1.5A 1206 Eaton PTSRLR12066V150	F1
		Digi-Key 283-PTSRLR12066V150CT-ND	Eaton PTSRLR12066V150	
13	1	BW-350-204 CON-2.5MM Nano Fit 6	Con 6 pin 2.5mm pitch 2x3 Nano Fit RA male thru shrouded Molex 1053141106	J1
		Digi-Key WM16908-ND	Molex 1053141106	
14	3	BW-517-054 CON-100 TSW 3	Con 3 pin 100 mil pitch 1x3 TSW str male thru 0.230" post h Samtec TSW-103-07-G-S	J2 J3 J18
		Digi-Key SAM1029-03-ND	Samtec TSW-103-07-G-S	
15	3	BW-220-198 CON-100 TSW 12	Con 12 pin 100 mil pitch 2x6 TSW RA male thru 0.230" post t Samtec TSW-106-08-L-D-RA	J4 J8 J10
		Digi-Key SAM1041-06-ND	Samtec TSW-106-08-L-D-RA	
16	7	BW-867-891 CON-RF SMA edge mnt	Con SMA female jack end launch 50 ohm 18GHz PCB long pin Cinch 142-0701-801	J5 J6 J9 J11 J13 J15 J16
		Digi-Key J502-ND	Cinch 142-0701-801	
17	1	BW-491-171 CON-100 TSW 4	Con 4 pin 100 mil pitch 1x4 TSW str male thru 0.230" post h Samtec TSW-104-07-G-S	J7
		Digi-Key SAM1029-04-ND	Samtec TSW-104-07-G-S	
18	1	BW-510-530 CON-100 TSW 16	Con 16 pin 100 mil pitch 2x8 TSW str male thru Samtec TSW-108-07-L-D	J12
		Digi-Key SAM1030-08-ND	Samtec TSW-108-07-L-D	
19	1	BW-137-712 CON-100 SSW 12	Con 12 pin 100 mil pitch 2x6 SSW socket female thru 0.230" Samtec SSW-106-01-G-D	J14
		Digi-Key SAM1208-06-ND	Samtec SSW-106-01-G-D	
20	1	BW-536-719 CON-USB C	Con USB-C 2.0 recp R/A SMT Amphenol 12402012E212A	J17
		Digi-Key 664-12402012E212ACT-ND	Amphenol Comme 12402012E212A	
21	2	BW-038-636 CON-100 TSW 2	Con 2 pin 100 mil pitch 1x2 TSW str male thru 0.230" post h Samtec TSW-102-07-G-S	J19 J23
		Digi-Key SAM1029-02-ND	Samtec TSW-102-07-G-S	
22	3	BW-623-913 CON-100 TSW 8	Con 8 pin 100 mil pitch 2x4 TSW str male thru 0.230" post h Samtec TSW-104-07-L-D	J20 J21 J22
		Digi-Key SAM1030-04-ND	Samtec TSW-104-07-L-D	
23	2	BW-227-124 IND-1008 1uH 3.3A	Inductor 1uH 3.3A shielded 1008 pkg Murata DFE252012F-1R0M=P2	L1 L2
		Digi-Key 490-13053-1-ND	Murata DFE252012F-1R0M=P2	
24	1	BW-812-714 R1%-0603 909	Res 909 1% 1/10W 0603 Panasonic ERJ-3EKF9090V	R1
		Digi-Key P909HCT-ND	Panasonic ERJ-3EKF9090V	

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25	1	BW-303-795 R1%-0603 100K	Res 100K 1% 1/10W 0603 Panasonic ERJ-3EKF1003V	R2
		Digi-Key P100KHCT-ND	Panasonic ERJ-3EKF1003V	
26	1	BW-760-287 R1%-0603 200K	Res 200K 1% 1/10W 0603 Panasonic ERJ-3EKF2003V	R3
		Digi-Key P200KHCT-ND	Panasonic ERJ-3EKF2003V	
27	1	BW-514-032 R1%-0603 510K	Res 510K 1% 1/10W 0603 Panasonic ERJ-3EKF5103V	R4
		Digi-Key P510KHCT-ND	Panasonic ERJ-3EKF5103V	
28	1	BW-421-162 R5%-0603 2.7M	Res 2.7M 5% 1/10W 0603 Panasonic ERJ-3GEYJ275V	R5
		Digi-Key P2.7MGCT-ND	Panasonic ERJ-3GEYJ275V	
29	1	BW-446-612 R1%-0603 15K	Res 15K 1% 1/10W 0603 Panasonic	R6
		Digi-Key P15.0KHCT-ND	Panasonic ERJ-3EKF1502V	
30	1	BW-131-959 R1%-0603 82.5K	Res 82.5K 1% 1/10W 0603 Panasonic ERJ-3EKF8252V	R7
		Digi-Key P82.5KHCT-ND	Panasonic ERJ-3EKF8252V	
31	3	BW-354-763 R1%-0603 301	Res 301 1% 1/10W 0603 Panasonic ERA-3AEB3010V	R8 R11 R16
		Digi-Key P301DBCT-ND	Panasonic ERA-3AEB3010V	
32	1	BW-257-784 RVAR 5K	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	
33	1	BW-560-201 R1%-0603 215K	Res 215K 1% 1/10W 0603 Panasonic ERJ-3EKF2153V	R10
		Digi-Key P215KHCT-ND	Panasonic ERJ-3EKF2153V	
34	2	BW-784-622 R1%-0603 250	Res 250 0.1% 1/10W 0603 Yageo RT0603BRE07250RL	R12 R28
		Digi-Key 13-RT0603BRE07250RLCT-ND	Yageo RT0603BRE07250RL	
35	1	BW-628-791 R1%-0603 33.2K	Res 33.2K 1% 1/10W 0603 Panasonic ERJ-3EKF3322V	R13
		Digi-Key P33.2KHCT-ND	Panasonic ERJ-3EKF3322V	
36	4	BW-457-217 R1%-0603 330	Res 330 1% 1/10W 0603 Panasonic ERJ-U03F3300V	R14 R18 R19 R22
		Digi-Key Corpora 10-ERJ-U03F3300VCT-ND	Panasonic ERJ-U03F3300V	
37	1	BW-146-387 R1%-0603 75	Res 75 1% 1/10W 0603 Stackpole RMCF0603FT75R0	R15
		Digi-Key RMCF0603FT75R0CT-ND	Stackpole RMCF0603FT75R0	

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38	1	BW-532-263 RES 0	Res 0 1/10W 0603 Panasonic ERJ-3GEY0R00V		R17
		Digi-Key P0.0GCT-ND	Panasonic ERJ-3GEY0R00V		
39	2	BW-611-992 R.05%-0603 10	Res 10 0.05% 1/10W 0603 Stackpole RNCF0603AKT10R0		R20 R21
		Digi-Key RNCF0603AKT10R0CT-ND	Stackpole RNCF0603AKT10R0		
40	18	BW-200-113 R1%-0603 5.1K	Res 5.1K 1% 1/10W 0603 Panasonic ERJ-3EKF5101V		R23 R24 R34 R35 R36 R37 R38 R39 R40 R41 R42 R43 R44 R45 R46 R47 R48 R49
		Digi-Key P5.10KHCT-ND	Panasonic ERJ-3EKF5101V		
41	1	BW-725-833 R1%-0603 4.7K	Res 4.7K 1% 1/10W 0603 Panasonic ERJ-3EKF4701V		R26
		Digi-Key P4.70KHCT-ND	Panasonic ERJ-3EKF4701V		
42	4	BW-038-468 R1%-0603 10K	Res 10K 1% 1/10W 0603 Yageo RC0603FR-0710KL		R27 R29 R31 R32
		Digi-Key 311-10.0KHRCT-ND	Yageo RC0603FR-0710KL		
43	1	BW-528-389 R.5%-0603 12K	Res 12K 0.5% 1/10W 0603 Panasonic		R30
		Digi-Key P123739CT-ND	Panasonic ERA-3AED123V		
44	1	BW-005-683 R1%-0603 2.2K	Res 2.2K 1% 1/10W 0603 Yageo RC0603FR-132K2L		R33
		Digi-Key 13-RC0603FR-132K2LCT-ND	Yageo RC0603FR-132K2L		
45	2	BW-522-992 SW SPDT	Switch slide SPDT 3A 125V ST thru NKK CS12ANW03		S1 S2
		Digi-Key 360-2131-ND	NKK CS12ANW03		
46	1	BW-431-238 SW SPDT	Switch slide SPDT ST thru Würth 450301014042		S3
		Digi-Key 450301014042-ND	Würth 450301014042		
47	3	BW-591-967 SW SPST-NO	Switch momentary SPST-NO tactile 2 pin J-lead low-profile 2 C&K PTS636 SK25J SMTR LFS		S4 S6 S7
		Digi-Key CKN12326-1-ND	C&K PTS636 SK25J SMTR LFS		
48	1	BW-977-175 SW DIP-6	Switch DIP 6 position, 12 pin, SMT Würth 418121270806		S5
		Digi-Key 732-6964-1-ND	Würth 418121270806		
49	1	BW-602-053 TEST-PT 1	Test point loop 63mil dia hole orange Keystone 5008		T4
		Digi-Key 36-5008-ND	Keystone 5008		
50	1	BW-966-768 TEST-PT 1	Test point loop 63mil dia hole black Keystone 5006		T10
		Digi-Key 36-5006-ND	Keystone 5006		

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51	2	BW-067-710 TEST-PT 1	Test point loop 63mil dia hole yellow Keystone 5009			T12 T13
		Digi-Key	36-5009-ND	Keystone	5009	
52	1	BW-849-997 IC LT3083	IC LT3083 LDO regulator 3A DDPAK-5L Analog Devices LT3083EQ#PBF			U1
		Digi-Key	505-LT3083EQ#PBF-ND	Analog Devices	LT3083EQ#PBF	
53	1	BW-471-924 Q-NMOS BUK9K12-60EX	MOSFET N-CH dual 60V 35A SOT-1205 Nexperia BUK9K12-60EX			U2
		Digi-Key	1727-1897-1-ND	Nexperia	BUK9K12-60EX	
54	2	BW-746-991 IC LT3042	IC LT3042 adj LDO regulator 200mA MSOP-EP-10 Analog Devices LT3042IMSE#TRPBF			U3 U5
		Digi-Key	LT3042IMSE#TRPBFCT-ND	Analog Devices	LT3042IMSE#TRPBF	
55	1	BW-843-693 IC LTC4365CTS8#TRMPBF	IC LTC4365CTS8#TRMPBF Analog Devices LTC4365 Surge Suppressor			U4
		Digi-Key	505-LTC4365CTS8#TRMPBFCT-ND	Analog Devices	LTC4365CTS8#TRMPBF	
56	1	BW-023-157	IC custom STAC-V1 die 64 pins 0.5mm pitch QFN-64 w/EP BWRC			U6
57	1	BW-157-496 IC FT2232HL	IC FT2232HL USB to UART/FIFO LQFP-64 FTDI FT2232HL			U7
		Digi-Key	768-1024-1-ND	FTDI	FT2232HL-REEL	
58	1	BW-913-765 IC 93LC56BT-I/OT	IC 93LC56BT-I/OT 2K I2C EEPROM SOT23-6 Microchip 93LC56BT-I/OT			U8
		Digi-Key	93LC56BT-I/OTCT-ND	Microchip	93LC56BT-I/OT	
59	1	BW-674-698 IC TS3A27518EPWR	IC TS3A27518EPWR 6-ch analog mux TSSOP-24 TI TS3A27518EPWR			U9
		Digi-Key	296-24570-1-ND	Texas Instrume	TS3A27518EPWR	
60	1	BW-250-920 IC IS25LP128-JBLE	IC IS25LP128-JBLE 128Mbit QSPI flash SOIC-8 ISSI IS25LP128-JBLE			U10
		Digi-Key	706-1341-ND	ISSI	IS25LP128-JBLE	
61	1	BW-818-101 IC APS6404L-3SQR-SN	IC APS6404L-3SQR-SN PseudoSRAM PSRAM 8Mx8bits SPI/Q!			U11
		Mouser	878-APS6404L-3SQR-SN	AP Memory	APS6404L-3SQR-SN	
62	1	BW-479-949 CRY-OSC 12MHz	Osc 12MHz with capacitors 3-pin Murata CSTNE12M0GH5L000R0			X1
		Digi-Key	490-17947-1-ND	Murata	CSTNE12M0GH5L000R0	