

ASMPCB-EAGLE1_REVX1

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Quantity to Build: 25
 Part List Revision: A
 Purchase List Number: 001
 List Release Date: 11/8/2018

Item	Qty	Part Number	Description	Reference
	Loc	Sort Code		
	Vendor Name	Vendor Part Number	Manf Name	Manf Part Number
1	30	BW-077-814	Cap ceramic 15pF 16V 5% COG NPO 0402	C20
	* A1	CAPC-0402 15pF 16V	Kemet C0402C150J4GACTU	
	Digi-Key	399-8947-1-ND	Kemet C0402C150J4GACTU	
2	30	BW-768-871	Cap ceramic 150pF 50V 10% COG NPO 0402	C19
	* A2	CAPC-0402 150pF 50V	Kemet C0402C151K5GAC7867	
	Digi-Key	399-14270-1-ND	Kemet C0402C151K5GAC7867	
3	30	BW-455-956	Cap ceramic 3300pF 25V 5% X7R 0402	C22
	* A3	CAPC-0402 3.3nF 25V	Samsung CL05B332JA5NNNC	
	Digi-Key	1276-1547-1-ND	Samsung CL05B332JA5NNNC	
4	2000	BW-794-372	Cap ceramic 0.1uF 10V 10% X5R 0402	C1 C2 C3 C4 C5 C7 C9 C10 C12 C13 C14 C15 C16 C17 C18 C21 C23 C24 C25 C26
	* A4	CAPC-0402 0.1uF 10V	Murata GRM155R61A104KA01D	
	Digi-Key	GRM155R61A104KA01D	Murata 490-1318-6-ND	
5	30	BW-441-938	Cap ceramic 0.22uF 6.3V 10% X5R 0402	C30
	* A5	CAPC-0402 0.22uF 6.3V	Kemet C0402C224K9PAC7867	
	Digi-Key	399-4886-1-ND	Kemet C0402C224K9PAC7867	
6	1000	BW-373-241	Cap ceramic 10uF 6.3V 20% X5R 0603	C6 C8 C11 C29 C36 C42 C70 C71 C72 C76 C77 C81 C82 C86 C87 C91 C93 C95 C97
	* A6	CAPC-0603 10uF 6.3V	Taiyo Yuden JMK107BJ106MA-T	
	Digi-Key	587-1256-1-ND	Taiyo Yuden JMK107BJ106MA-T	
7	25	BW-330-143	Con 400 pin 1.27mm FMC VITA 57 male plug 10mm stkd ht	J8
	* B3	CON-FMC 400 plug	Samtec ASP-134488-01	
	Digi-Key	SAM8730-ND	Samtec ASP-134488-01	

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8	100	BW-601-380	Con SMA female jack str 50 ohm PCB SMT	J1 J2 J3 J4
	*B4	CON-RF SMA	Cinch 142-0711-202	
		Digi-Key J10154CT-ND	Cinch 142-0711-202	
9	25	BW-437-404	Con uSD card recp	J9
	*B5	CON uSD	Molex 5033981892	
		Digi-Key WM11190CT-ND	Molex 5033981892	
10	30	BW-082-896	Osc 50MHz	X1
	*B6	CRY-OSC 50MHz	Epson SG210SED50.0000ML3	
		Digi-Key SER3708DKR-ND	Epson SG-210SED50.0000ML3	
11	25	BW-579-909	Osc 300MHz LVDS 6-pin	X2
	*B7	CRY-OSC 300MHz	Microchip DSC1103CI5-300.0000	
		Digi-Key DSC1103CI5-300.0000-ND	Microchip DSC1103CI5-300.0000	
12	30	BW-700-030	IC NB7V58M LVDS clock multiplexer 2:1 QFN-16	U4
	*B8	IC NB7V58M	ON NB7V58MMNG	
		Digi-Key NB7V58MMNG-ND	ON Semiconduct NB7V58MMNG	
13	80	BW-380-427	IC SN74AVC4T234 level shifter 4-ch unidirectional uCSP-11	U2 U3 U15
	*C1	IC SN74AVC4T234	TI SN74AVC4T234ZSUR	
		Digi-Key 296-29041-1-ND	Texas Instrume SN74AVC4T234ZSUR	
14	100	BW-001-338	IC SN74AVC2T244 level shifter unidirectional 8X2SON	U7 U8 U11 U13
	*C2	IC SN74AVC2T244	TI SN74AVC2T244DQMR	
		Digi-Key 296-29674-1-ND	Texas Instrume SN74AVC2T244DQMR	

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15	30	BW-713-112	IC SN74LVC1G125 buffer non-inverting SON-6	U9
	*C3	IC SN74LVC1G125	TI SN74LVC1G125DRYR	
		Digi-Key 296-21816-1-ND	Texas Instrume SN74LVC1G125DRYR	
16	75	BW-430-932	IC LT3022 adj LDO regulator 1A MSOP-EP-16	U20 U21 U22
	*C4	IC LT3022	Linear Tech LT3022EMSE#PBF	
		Digi-Key LT3022EMSE#PBF-ND	Linear Technol LT3022EMSE#PBF	
17	30	BW-032-153	IC TPS3125 1.62V supply monitor (POR generator)	U6
	*C5	IC TPS3125	TI TPS3125J18DBVR	
		Digi-Key 296-10898-1-ND	Texas Instrume TPS3125J18DBVR	
18	30	BW-287-161	IC AD9516-4 14-output clock generator LFCSP-64	U1
	*C6	IC AD9516-4	ADI AD9516-4BCPZ	
		Digi-Key AD9516-4BCPZ-ND	Analog Devices AD9516-4BCPZ	
19	30	BW-822-598	IC PCA9846 bus switch 4-channel TSSOP-16	U12
	*C7	IC PCA9846	NXP PCA9846PWJ	
		Digi-Key 568-12882-1-ND	NXP PCA9846PWJ	
20	30	BW-468-510	IC M24128 128Kb (16K x 8) I2C 1MHz EEPROM TSSOP-8	U14
	*C8	IC M24128	ST M24128-BRDW6TP	
		Digi-Key 497-8618-1-ND	ST Microelectr M24128-BRDW6TP	
21	100	BW-956-629	IC TPS62361 buck switching reg pos adj BGA-16	U16 U17 U18 U19
	*D1	IC TPS62361	TI TPS62361BYZHR	
		Digi-Key 296-28830-1-ND	Texas Instrume TPS62361BYZHR	

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22	200	BW-002-808	Inductor 1uH 650mA 0603	L1 L2 L3 L4 L5 L6
	*D2	IND-0603 1uH 650mA	Taiyo Yuden BRL1608T1R0M	
		Digi-Key 587-2897-1-ND	Taiyo Yuden BRL1608T1R0M	
23	100	BW-163-397	Inductor 1uH 3.1A 1210	L7 L8 L9 L10
	*D3	IND-1210 1uH 3.1A	Murata Electronics 1277AS-H-1R0M=P2	
		Digi-Key 490-10590-1-ND	Murata 1277AS-H-1R0M=P2	
24	30	BW-087-039	Res 1.87K 0.1% 1/16W 0402	R13
	*D4	R.1%-0402 1.87K	Panasonic ERA-2AEB1871X	
		Digi-Key P1.87KDCCT-ND	Panasonic ERA-2AEB1871X	
25	30	BW-473-932	Res 5.49K 0.1% 1/16W 0402	R11
	*D5	R.1%-0402 5.49K	Panasonic ERA-2AEB5491X	
		Digi-Key P5.49KDCCT-ND	Panasonic ERA-2AEB5491X	
26	80	BW-783-395	Res 49.9 1% 1/16W 0402	R5 R14 R15
	*D6	R1%-0402 49.9	Vishay CRCW040249R9FKEDC	
		Digi-Key 541-3967-1-ND	Vishay CRCW040249R9FKEDC	
27	200	BW-182-504	Res 200 1% 1/10W 0402	R6 R7 R8 R9 R47 R49 R50 R51
	*D7	R1%-0402 200	Panasonic ERJ-2RKF2000X	
		Digi-Key P200LCT-ND	Panasonic ERJ-2RKF2000X	
28	30	BW-309-538	Res 604 1% 1/10W 0402	R48
	*D8	R1%-0402 604	Panasonic ERJ-2RKF6040X	
		Digi-Key P604LCT-ND	Panasonic ERJ-2RKF6040X	

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29	30	BW-864-043	Res 698 1% 1/10W 0402	R46
	*E1	R1%-0402 698	Panasonic ERJ-2RKF6980X	
		Digi-Key P698LCT-ND	Panasonic ERJ-2RKF6980X	
30	30	BW-084-269	Res 4.12K 1% 1/10W 0402	R3
	*E2	R1%-0402 4.12K	Panasonic ERJ-2RKF4121X	
		Digi-Key P4.12KLCT-ND	Panasonic ERJ-2RKF4121X	
31	30	BW-026-055	Res 5.1K 1% 1/16W 0402	R2
	*E3	R1%-0402 5.1K	Vishay CRCW04025K10FKED	
		Digi-Key 541-5.10KLCT-ND	Vishay CRCW04025K10FKED	
32	100	BW-015-470	Res 16K 1% 1/10W 0402	R34 R35 R36 R37
	*E4	R1%-0402 16K	Panasonic ERJ-2RKF1602X	
		Digi-Key P16.0KLCT-ND	Panasonic ERJ-2RKF1602X	
33	300	BW-242-342	Res 100K 1% 1/16W 0402	R23 R24 R25 R26 R29 R30 R31 R32 R33
	*E5	R1%-0402 100K	Yageo RC0402FR-07200KL	
		Digi-Key 311-200KLRCT-ND	Yageo RC0402FR-07200KL	
34	300	BW-740-618	Res 3.9K 5% 1/10W 0402	R1 R27 R28 R38 R39 R40 R41 R42 R43 R44 R45
	*E6	R5%-0402 3.9K	Panasonic ERJ-2GEJ392X	
		Digi-Key P3.9KJCT-ND	Panasonic ERJ-2GEJ392X	
35	100	BW-532-263	Res 0 1/10W 0603	R10 R12 R17 R22
	*E7	RES 0	Panasonic ERJ-3GEY0R00V	
		Digi-Key P0.0GCT-ND	Panasonic ERJ-3GEY0R00V	

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36	25	BW-793-167	SW pushbutton SPST-NO SMD 4 pin	S1
	*E8	SW SPST-NO SMT	E-Switch TL3301AF160QJ	
		Digi-Key EG4374CT-ND	E-switch TL3301AF160QJ	
37	30	BW-182-486	Test point loop mini 40mil dia hole black	T1
	*F1	TEST-PT 1	Keystone 5001	
		Digi-Key 36-5001-ND	Keystone 5001	
38	50	BW-252-400	Con 2 pin 100 mil 1x2 str male, surface mnt, 0.230" post height	J11 J12
	*A7	CON-025 2	Samtec TSM-102-01-L-SV	
		Samtec TSM-102-01-L-SV	Samtec TSM-102-01-L-SV	
		Digi-Key SAM8979-ND		
39	50	BW-987-446	Con 8 pin 100 mil 2x4 str male surface mnt 0.230" post height	J10 J13
	*A8	CON-025 8	Samtec TSM-104-01-T-DV	
		Samtec TSM-104-01-T-DV	Samtec TSM-104-01-T-DV	
		Digi-Key SAM1415CT-ND		
40	50	BW-185-936	Con 2 pin 50 mil 1x2 str male, surface mnt, 0.120" post height	J5 J14
	*B1	CON-50 2	Samtec FTS-102-01-L-SV	
		Samtec FTS-102-01-L-SV	Samtec FTS-102-01-L-SV	
		Digi-Key FTS-102-01-L-SV		
41	50	BW-143-925	Con 4 pin 50 mil 2x2 str male, surface mnt, 0.150" post height	J6 J7
	*B2	CON-50 4	Samtec FTSH-102-04-F-DV	
		Samtec FTSH-102-04-F-DV	Samtec FTSH-102-04-F-DV	
		Digi-Key FTSH-102-04-F-DV-ND		