

ASMPCB-HURRICANE-MOTHERBOARD_REVX2

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Quantity to Build: 5
 Part List Revision: A
 Kit Release Number: 001
 Kit Release Date: 2/4/2018

Item Loc	Qty	Part Number Sort Code	Description	Reference	
		Vendor Name	Vendor Part Number	Manf Name	Manf Part Number
A1	40	BW-301-231	Cap ceramic 10pF 50V 1% COG NPO 0402		C77 C79 C81 C83 C96 C98 C100 C102
		CAPC-0402 10pF 50V G3	Murata GRM1555C1H100FA01D		
		Digi-Key 490-6186-1-ND	Murata GRM1555C1H100FA01D		
A2	10	BW-419-162	Cap ceramic 1.2nF 50V 5% COG NPO 0402		C88 C94
		CAPC-0402 1.2nF 50V H8	Kemet C0402C122J5GACTU		
		Digi-Key 399-7334-1-ND	Kemet C0402C122J5GACTU		
A3	10	BW-173-862	Cap ceramic 2.7nF 50V 5% COG NPO 0603		C87 C93
		CAPC-0402 2.7nF 50V U6	Murata GRM1885C1H272JA01D		
		Digi-Key 490-3283-1-ND	Murata GRM1885C1H272JA01D		
A4	40	BW-489-672	Cap ceramic 0.01uF 16V 10% X7R 0402		C4 C89 C90 C91 C104 C105 C107 C108
		CAPC-0402 0.01uF 16V B4	AVX 0402YC103KAT2A		
		Digi-Key 478-1114-1-ND	AVX 0402YC103KAT2A		
A5	330	BW-794-372	Cap ceramic 0.1uF 10V 10% X5R 0402		C1 C2 C3 C5 C7 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 C19 C20 C21 C22 C23
		CAPC-0402 0.1uF 10V B1	Murata GRM155R61A104KA01D		
		Digi-Key GRM155R61A104KA01D	Murata 490-1318-6-ND		
A6	5	BW-466-928	Cap ceramic 1uF 10V 10% X5R 0805		C58
		CAPC-0805 1uF 10V L4	AVX 0805ZD105KAT2A		
		Digi-Key 478-1412-1-ND	AVX 0805ZD105KAT2A		
A7	5	BW-012-654	Cap ceramic 4.7uF 10V 10% X5R 0805		C44
		CAPC-0805 4.7uF 10V E5	Taiyo Yuden LMK212BJ475KD-T		
		Digi-Key 587-1297-6-ND	Taiyo Yuden LMK212BJ475KD-T		
A8	10	BW-496-598	Cap ceramic 39nF 50V 5% COG NPO 1206		C86 C92
		CAPC-1206 39nF 50V V4	Murata GRM31M5C1H393JA01L		
		Digi-Key 490-3358-1-ND	Murata GRM31M5C1H393JA01L		
B1	80	BW-840-130	Cap ceramic 10uF 16V 20% X5R 1206		C6 C8 C42 C46 C48 C52 C55 C60 C62 C64 C66 C68 C70 C73 C75 C76
		CAPC-1206 10uF 16V J7	TDK C3216X5R1C106M160AA		
		Digi-Key 445-1426-1-ND	TDK C3216X5R1C106M160AA		
B2	10	BW-701-605	Cap aluminum electrolytic 1000uF 16V 20% radial		C51 C54
		CAPE-AL-GP 1000uF 16V B6	Panasonic EEU-FM1C102		
		Digi-Key P12366-ND	Panasonic EEU-FM1C102		
B3	10	BW-700-435	Cap tantalum electrolytic 3.3uF 35V 10% 2312		C57 C59
		CAPT 3.3uF 35V H1	AVX TPSC335K035R0700		
		Digi-Key 478-1769-1-ND	AVX TPSC335K035R0700		

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B4	55	BW-072-821	Con 1 pin 100 mil 1x1 dtr male	J23 J27 J28 J29 J30 J31 J32
		CON-025 1 U4	TE 4-103327-3	J33 J34 J35 J36
		Digi-Key A122848-ND	TE 4-103327-3	
B5	25	BW-003-156	Con 2 pin 100 mil 1x2 str male	J20 J22 J24 J25 J26
		CON-025 2 E5	TE 5-146252-1	
		Digi-Key A105225-ND	TE 5-146252-1	
B6	5	BW-008-317	Con 3 pin 100 mil 1x3 keyed male	J10
		CON-025 3 C5	Molex 22-11-2032	
		Digi-Key WM2701-ND	Molex 0022112032	
B7	55	BW-389-759	Con 3 pin 100 mil 1x3 str male	J37 J38 J39 J40 J41 J42 J43
		CON-025 3 V3	TE 5-146280-3	J44 J45 J46 J47
		Digi-Key 5-146280-3-ND	TE 5-146280-3	
B8	5	BW-970-533	Con 4 pin 100 mil 2x2 str male	J11
		CON-025 4 D4	TE 87227-2	
		Digi-Key A26567-ND	TE 87227-2	
C1	5	BW-009-332	Con 8 pin 100 mil 2x4 str male	J14
		CON-025 8 H4	TE 87227-4	
		Digi-Key A26571-ND	TE 87227-4	
C2	5	BW-715-979	Con 20 pin 100 mil 2x10 str male shrouded	J21
		CON-025 20 F5	3M 30320-6002HB	
		Digi-Key 3M11932-ND	3M 30320-6002HB	
C3	5	BW-935-627	Con 400 pin 1.27mm 10x40 FMC VITA 57 male plug	J17
		CON-FMC 400 plug K8	Molex 0459704715	
		Digi-Key WM4985CT-ND	Molex 0459704715	
C4	5	BW-349-120	Con 400 pin 1.27mm 10x40 FMC VITA 57 female recp	J18
		CON-FMC 400 recp V6	Molex 0459714515	
		Digi-Key WM4982CT-ND	Molex 0459714515	
C5	70	BW-222-950	Con SMA jack str 50 ohm PCB THT-SMT	J1 J2 J3 J4 J5 J6 J7 J8 J9 J12
		CON-RF SMA L5	Amphenol RF 132134-15	J13 J15 J16 J19
		Digi-Key ACX1962-ND	Amphenol RF 132134-15	
C6	5	BW-082-896	Osc 50MHz	X2
		CRY-OSC 50MHz L6	Epson SG210SED50.0000ML3	
		Digi-Key SER3708DKR-ND	Epson SG-210SED50.0000ML3	
C7	5	BW-448-646	Osc 125MHz	X1
		CRY-OSC 125MHz P5	Kyocera KC3225A125.000C30E00	
		Digi-Key 478-4593-1-ND	Kyocera KC3225A125.000C30E00	
C8	5	BW-364-542	Diode 75V 150mA MELF	D1
		D-PN DL4148 F4	Micro Commercial DL4148-TP	
		Digi-Key DL4148-TPMSCT-ND	Micro Commerci DL4148-TP	

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		Vendor Name	Vendor Part Number	Manf Name	Manf Part Number	
D1	5	BW-493-051	IC LM2776 voltage inverter SOT23-6			U8
		IC LM2776 B3	TI LM2776DBVR			
		Digi-Key	296-43957-1-ND	Texas Instrume	LM2776DBVR	
D2	5	BW-430-932	IC LT3022 adj LDO regulator 1A MSOP-EP-16			U5
		IC LT3022 N5	Linear Tech LT3022EMSE#PBF			
		Digi-Key	LT3022EMSE#PBF-ND	Linear Technol	LT3022EMSE#PBF	
D3	10	BW-328-278	IC ADF4351 wideband synthesizer w/integrated VCO LFCSP-;			U1 U15
		IC ADF4351 L3	Analog Devices ADF4351BCPZ			
		Digi-Key	ADF4351BCPZ-RL7CT-ND	Analog Devices	ADF4351BCPZ-RL7	
D4	5	BW-280-531	IC DS4432 prog current source DAC I2C uSOP-8			U3
		IC DS4432 U8	Maxim DS4432U+			
		Digi-Key	DS4432U+-ND	Maxim	DS4432U+	
D5	15	BW-388-512	IC NLSX5014 4-bit 100 Mb/s level translator TSSOP-14			U14 U16 U17
		IC NLSX5014 K5	ON Semi NLSX5014DTR2G			
		Digi-Key	NLSX5014DTR2GOSCT-ND	ON Semiconduct	NLSX5014DTR2G	
D6	5	BW-832-719	IC AD5263 digital pot 4-output TSSOP-24			U9
		IC AD5263 W1	ADI AD5263BRUZ200			
		Digi-Key	AD5263BRUZ200-ND	Analog Devices	AD5263BRUZ200	
D7	10	BW-360-543	IC LM8272 op-amp MSOP-8			U2 U13
		IC LM8272 V5	TI LM8272MM			
		Digi-Key	296-35316-1-ND	Texas Instrume	LM8272MMX	
D8	10	BW-920-319	IC PCA9306 level shifter I2C TSSOP-8			U6 U7
		IC PCA9306 W7	NXP PCA9306DP,118			
		Digi-Key	568-4214-6-ND	NXP	PCA9306DP,118	
E1	5	BW-507-628	IC MAX9611 op-amp uMAX-10			U4
		IC MAX9611 R5	Maxim MAX9611AUB+			
		Digi-Key	MAX9611AUB+-ND	Maxim	MAX9611AUB+	
E2	5	BW-388-492	IC ISL23315 digital pot 10K MSOP-10			U11
		IC ISL23315 W7	Intersil ISL23315WFUZ			
		Digi-Key	ISL23315WFUZ-ND	Intersil	ISL23315WFUZ	
E3	5	BW-595-034	IC ISL43240 quad SPDT switch SSOP-20			U10
		IC ISL43240 L4	Intersil ISL43240IAZ			
		Digi-Key	ISL43240IAZ-ND	Intersil	ISL43240IAZ	
E4	5	BW-956-629	IC TPS62361 buck switching reg pos adj BGA-16			U12
		IC TPS62361 A8	TI TPS62361BYZHR			
		Digi-Key	296-28830-1-ND	Texas Instrume	TPS62361BYZHR	
E5	45	BW-002-808	Inductor 1uH 650mA 0603			L1 L2 L3 L4 L5 L6 L7 L8 L9
		IND-0603 1uH 650mA P8	Taiyo Yuden BRL1608T1R0M			
		Digi-Key	587-2897-1-ND	Taiyo Yuden	BRL1608T1R0M	

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		Vendor Name	Vendor Part Number	Manf Name	Manf Part Number
E6	5	BW-691-371	MOSFET N-CH 60V 4A SOT223		Q1
		Q-NMOS NDT3055L C5	ON Semi NDT3055L		
		Digi-Key NDT3055LCT-ND	ON Semiconduct NDT3055L		
E7	10	BW-800-965	Res 40.2K 0.5% 1/16W 0402		R3 R4
		R.5%-0402 40.2K W7	Susumu RR0510P-4022-D		
		Digi-Key RR05P40.2KDCT-ND	SusumU RR0510P-4022-D		
E8	40	BW-783-395	Res 49.9 1% 1/16W 0402		R1 R52 R55 R56 R60 R61 R62 R63
		R1%-0402 49.9 R5	Vishay CRCW040249R9FKEDC		
		Digi-Key 541-3967-1-ND	Vishay CRCW040249R9FKEDC		
F1	5	BW-182-504	Res 200 1% 1/10W 0402		R5
		R1%-0402 200 C8	Panasonic ERJ-2RKF2000X		
		Digi-Key P200LCT-ND	Panasonic ERJ-2RKF2000X		
F2	10	BW-038-026	Res 360 1% 1/16W 0402		R54 R58
		R1%-0402 360 V2	Vishay CRCW0402360RFKED		
		Digi-Key 541-360LCT-ND	Vishay CRCW0402360RFKED		
F3	10	BW-686-191	Res 680 1% 1/16W 0402		R53 R57
		R1%-0402 680 C8	Vishay CRCW0402680RFKED		
		Digi-Key 541-680LCT-ND	Vishay CRCW0402680RFKED		
F4	5	BW-117-435	Res 1.24K 1% 1/16W 0402		R6
		R1%-0402 1.24K H4	Vishay CRCW04021K24FKED		
		Digi-Key 541-1.24KLCT-ND	Vishay CRCW04021K24FKED		
F5	10	BW-026-055	Res 5.1K 1% 1/16W 0402		R51 R59
		R1%-0402 5.1K G6	Vishay CRCW04025K10FKED		
		Digi-Key 541-5.10KLCT-ND	Vishay CRCW04025K10FKED		
F6	20	BW-242-342	Res 100K 1% 1/16W 0402		R64 R65 R66 R67
		R1%-0402 100K V8	Yageo RC0402FR-07200KL		
F7	5	BW-020-333	Res 1 1% 1W 1508		R50
		R1%-1508 1 D1	Susumu RL3720WS-1R0-F		
		Digi-Key RL37WS1.00FCT-ND	SusumU RL3720WS-1R0-F		
F8	5	BW-656-709	Res 0.05 1% 1W 2512		R49
		R1%-2512 0.05 M3	Susumu KRL3264-C-R050-F-T1		
		Digi-Key KRL32C.050CT-ND	SusumU KRL3264-C-R050-F-T1		
G1	205	BW-740-618	Res 3.9K 5% 1/10W 0402		R2 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16 R17 R18 R19 R20 R21 R22 R23 R24 R25 R26 R27
		R5%-0402 3.9K N1	Panasonic ERJ-2GEJ392X		
		Digi-Key P3.9KJCT-ND	Panasonic ERJ-2GEJ392X		
G2	10	BW-258-029	Res 200K 5% 1/16W 0402		R39 R46
		R5%-0402 200K J3	Yageo RC0402JR-07200KL		
		Digi-Key 311-200KJRCT-ND	Yageo RC0402JR-07200KL		

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