

ASMPCB-HURRICANE-MOTHERBOARD_REVX2

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Quantity to Build: 3
 Part List Revision: A
 Kit Release Number: 001
 Kit Release Date: 5/6/2018

| Item Loc | Qty | Part Number Sort Code | Description | Reference | |
|-------------|-----|---------------------------------------|---------------------------------------|-----------|---|
| | | Vendor Name | Vendor Part Number | Manf Name | Manf Part Number |
| A1 | 24 | BW-301-231 | Cap ceramic 10pF 50V 1% COG NPO 0402 | | C230 C232 C234 C236 C246 C248 C250 C252 |
| | | CAPC-0402 10pF 50V G3 | Murata GRM1555C1H100FA01D | | |
| | | Digi-Key 490-6186-1-ND | Murata GRM1555C1H100FA01D | | |
| A2 | 6 | BW-811-743 | Cap ceramic 27pF 50V 1% COG NPO 0402 | | C220 C221 |
| | | CAPC-0402 27pF N3 | Murata GRM1555C1H270FA01D | | |
| | | Digi-Key 490-6223-1-ND | Murata GRM1555C1H270FA01D | | |
| A3 | 6 | BW-419-162 | Cap ceramic 1.2nF 50V 5% COG NPO 0402 | | C226 C244 |
| | | CAPC-0402 1.2nF 50V H8 | Kemet C0402C122J5GACTU | | |
| | | Digi-Key 399-7334-1-ND | Kemet C0402C122J5GACTU | | |
| A4 | 36 | BW-324-209 | Cap ceramic 0.01uF 6.3V 10% X7R 0402 | | C209 C210 C211 C219 C237 C239 C240 C254 C255 C257 C258 C260 |
| | | CAPC-0402 0.01uF 6.3V C1 | Murata GRM155R70J103KA01D | | |
| | | Mouser Electroni 81-GRM155R70J103KA1D | Murata GRM155R70J103KA01D | | |
| A5 | 471 | BW-459-999 | Cap ceramic 0.1uF 10V 20% X5R 0402 | | C2 C4 C6 C8 C12 C14 C16 C17 C19 C21 C23 C25 C27 C29 C31 C33 C35 C37 C39 |
| | | CAPC-0402 0.1uF 10V V4 | Taiyo Yuden LMK105BJ104MV-F | | |
| | | Mouser Electroni 963-LMK105BJ104MV-F | Taiyo Yuden LMK105BJ104MV-F | | |
| A6 | 6 | BW-173-862 | Cap ceramic 2.7nF 50V 5% COG NPO 0603 | | C225 C243 |
| | | CAPC-0603 2.7nF 50V U6 | Murata GRM1885C1H272JA01D | | |
| | | Digi-Key 490-3283-1-ND | Murata GRM1885C1H272JA01D | | |
| A7 | 24 | BW-373-241 | Cap ceramic 10uF 6.3V 20% X5R 0603 | | C183 C185 C188 C190 C193 C195 C198 C200 |
| | | CAPC-0603 10uF 6.3V P5 | Taiyo Yuden JMK107BJ106MA-T | | |
| | | Digi-Key 587-1256-1-ND | Taiyo Yuden JMK107BJ106MA-T | | |
| A8 | 3 | BW-466-928 | Cap ceramic 1uF 10V 10% X5R 0805 | | C10 |
| | | CAPC-0805 1uF 10V L4 | AVX 0805ZD105KAT2A | | |
| | | Digi-Key 478-1412-1-ND | AVX 0805ZD105KAT2A | | |
| B1 | 33 | BW-012-654 | Cap ceramic 4.7uF 10V 10% X5R 0805 | | C72 C82 C92 C102 C112 C122 C132 C202 C204 C212 C214 |
| | | CAPC-0805 4.7uF 10V E5 | Taiyo Yuden LMK212BJ475KD-T | | |
| | | Digi-Key 587-1297-6-ND | Taiyo Yuden LMK212BJ475KD-T | | |
| B2 | 6 | BW-496-598 | Cap ceramic 39nF 50V 5% COG NPO 1206 | | C224 C241 |
| | | CAPC-1206 39nF 50V V4 | Murata GRM31M5C1H393JA01L | | |
| | | Digi-Key 490-3358-1-ND | Murata GRM31M5C1H393JA01L | | |
| B3 | 153 | BW-840-130 | Cap ceramic 10uF 16V 20% X5R 1206 | | C3 C7 C13 C15 C18 C20 C22 C24 C26 C28 C30 C32 C34 C36 C38 C40 C42 C44 C46 |
| | | CAPC-1206 10uF 16V J7 | TDK C3216X5R1C106M160AA | | |
| | | Digi-Key 445-1426-1-ND | TDK C3216X5R1C106M160AA | | |

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| B4 | 6 | BW-701-605 | Cap aluminum electrolytic 1000uF 16V 20% radial | C1 C5 |
| | | CAPE-AL-GP 1000uF 16V B6 | Panasonic EEU-FM1C102 | |
| | | Digi-Key P12366-ND | Panasonic EEU-FM1C102 | |
| B5 | 6 | BW-700-435 | Cap tantalum electrolytic 3.3uF 35V 10% 2312 | C9 C11 |
| | | CAPT 3.3uF 35V H1 | AVX TPSC335K035R0700 | |
| | | Digi-Key 478-1769-1-ND | AVX TPSC335K035R0700 | |
| B6 | 33 | BW-072-821 | Con 1 pin 100 mil 1x1 str male | J1 J2 J3 J4 J5 J6 J7 J8 J9 J10 |
| | | CON-025 1 U4 | TE 4-103327-3 | J55 |
| | | Digi-Key A122848-ND | TE 4-103327-3 | |
| B7 | 15 | BW-003-156 | Con 2 pin 100 mil 1x2 str male | J11 J13 J51 J52 J68 |
| | | CON-025 2 E5 | TE 5-146252-1 | |
| | | Digi-Key A105225-ND | TE 5-146252-1 | |
| B8 | 90 | BW-389-759 | Con 3 pin 100 mil 1x3 str male | J15 J16 J17 J18 J19 J20 J21 |
| | | CON-025 3 V3 | TE 5-146280-3 | J22 J23 J24 J25 J26 J27 J28 |
| | | Digi-Key 5-146280-3-ND | TE 5-146280-3 | J29 J30 J31 J32 J33 J34 J35 |
| C1 | 3 | BW-008-317 | Con 3 pin 100 mil 1x3 keyed male | J74 |
| | | CON-025 3 C5 | Molex 22-11-2032 | |
| | | Digi-Key WM2701-ND | Molex 0022112032 | |
| C2 | 3 | BW-970-533 | Con 4 pin 100 mil 2x2 str male | J14 |
| | | CON-025 4 D4 | TE 87227-2 | |
| | | Digi-Key A26567-ND | TE 87227-2 | |
| C3 | 15 | BW-184-356 | Con 4 pin 100 mil 1x4 str male | J54 J58 J59 J60 J61 |
| | | CON-025 4 K4 | TE 5-146280-4 | |
| | | Digi-Key A122870-ND | TE 5-146280-4 | |
| C4 | 3 | BW-009-332 | Con 8 pin 100 mil 2x4 str male | J12 |
| | | CON-025 8 H4 | TE 87227-4 | |
| | | Digi-Key A26571-ND | TE 87227-4 | |
| C5 | 3 | BW-715-979 | Con 20 pin 100 mil 2x10 str male shrouded | J66 |
| | | CON-025 20 F5 | 3M 30320-6002HB | |
| | | Digi-Key 3M11932-ND | 3M 30320-6002HB | |
| C6 | 3 | BW-059-905 | Clip battery holder for 20mm coin cell (CR2032) | J56 |
| | | CON-CLIP 20mm N8 | Linx BAT-HLD-001 | |
| | | Digi-Key BAT-HLD-001-ND | Linx BAT-HLD-001 | |
| C7 | 3 | BW-330-143 | Con 400 pin 1.27mm FMC VITA 57 male plug 10mm stkd ht | J49 |
| | | CON-FMC 400 plug P1 | Samtec ASP-134488-01 | |
| | | Digi-Key SAM8730-ND | Samtec ASP-134488-01 | |
| C8 | 3 | BW-543-902 | Con 400 pin 1.27mm FMC VITA 57 female recp | J50 |
| | | CON-FMC 400 recp G6 | Samtec ASP-134486-01 | |
| | | Digi-Key SAM8728-ND | Samtec ASP-134486-01 | |

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| D1 | 42 | BW-222-950 CON-RF SMA L5 | Con SMA female jack str 50 ohm PCB THT-SMT Amphenol RF 132134-15 | J42 J43 J44 J45 J46 J69 J70 J71 J72 J73 J75 J76 J77 J78 |
| | | Digi-Key ACX1962-ND | Amphenol RF 132134-15 | |
| D2 | 3 | BW-350-512 CON-USB MicroAB V7 | Con USB micro AB recp thru right angle Amphenol MUSBK15230 | J67 |
| | | Digi-Key MUSBK15230-ND | Amphenol Comm MUSBK15230 | |
| D3 | 3 | BW-866-261 CON SD F1 | Con SD card recp Amphenol FCI 10067847 | J57 |
| | | Digi-Key 609-3956-1-ND | Amphenol FCI 10067847-001RLF | |
| D4 | 3 | BW-441-620 CRY-OSC 32.768kHz G3 | Osc crystal 32.768kHz Citizen Finedevice CM315D32768HZFT | X1 |
| | | Digi-Key 300-8862-1-ND | Citizen Finedevice CM315D32768HZFT | |
| D5 | 3 | BW-425-399 CRY-OSC 12MHz M2 | Osc crystal 12MHz ECS ECS-120-18-5PX-TR | X2 |
| | | Digi-Key XC1289CT-ND | ECS inc ECS-120-18-5PX-TR | |
| D6 | 3 | BW-082-896 CRY-OSC 50MHz L6 | Osc 50MHz Epson SG210SED50.0000ML3 | X4 |
| | | Digi-Key SER3708DKR-ND | Epson SG-210SED50.0000ML3 | |
| D7 | 3 | BW-448-646 CRY-OSC 125MHz P5 | Osc 125MHz Kyocera KC3225A125.000C30E00 | X3 |
| | | Digi-Key 478-4593-1-ND | Kyocera KC3225A125.000C30E00 | |
| D8 | 3 | BW-364-542 D-PN DL4148 F4 | Diode 75V 150mA MELF Micro Commercial DL4148-TP | D5 |
| | | Digi-Key DL4148-TPMSCT-ND | Micro Commercial DL4148-TP | |
| E1 | 9 | BW-036-369 FBEAD 600 Ohm 1A G2 | Ferrite bead 600 Ohm 1A 0603 Würth Electronics 742792651 | F1 F2 F3 |
| | | Digi-Key 732-1593-1-ND | Würth 742792651 | |
| E2 | 3 | BW-332-476 IC SN74LVC257APWR A6 | IC SN74LVC257APWR Quad 2:1 MUX TSSOP-16 TI SN74LVC257APWR | U46 |
| | | Digi-Key 296-8506-1-ND | Texas Instruments SN74LVC257APWR | |
| E3 | 3 | BW-208-224 IC CAT93C46V A3 | IC CAT93C46V uWire EEPROM 1Kb SOIC-8 On Semi CAT93C46VI-GT3 | U47 |
| | | Digi-Key CAT93C46VI-GT3CT-ND | ON Semiconductor CAT93C46VI-GT3 | |
| E4 | 3 | BW-103-963 IC FT232H B3 | IC FT232H USB to UART/FIFO QFN-48 FTDI FT232HQ-REEL | U44 |
| | | Digi-Key 768-1102-1-ND | FTDI FT232HQ-REEL | |
| E5 | 3 | BW-493-051 IC LM2776 B3 | IC LM2776 voltage inverter SOT23-6 TI LM2776DBVR | U3 |
| | | Digi-Key 296-43957-1-ND | Texas Instruments LM2776DBVR | |

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| E6 | 21 | BW-430-932 | IC LT3022 adj LDO regulator 1A MSOP-EP-16 | U15 U18 U21 U24 U27 U30 U33 |
| | | IC LT3022 N5 | Linear Tech LT3022EMSE#PBF | |
| | | Digi-Key LT3022EMSE#PBF-ND | Linear Technol LT3022EMSE#PBF | |
| E7 | 6 | BW-328-278 | IC ADF4351 wideband synthesizer w/integrated VCO LFCSP-: | U48 U49 |
| | | IC ADF4351 L3 | Analog Devices ADF4351BCPZ | |
| | | Digi-Key ADF4351BCPZ-RL7CT-ND | Analog Devices ADF4351BCPZ-RL7 | |
| E8 | 6 | BW-280-531 | IC DS4432 prog current source DAC I2C uSOP-8 | U4 U5 |
| | | IC DS4432 U8 | Maxim DS4432U+ | |
| | | Digi-Key DS4432U+-ND | Maxim DS4432U+ | |
| F1 | 18 | BW-388-512 | IC NLSX5014 4-bit 100 Mb/s level translator TSSOP-14 | U38 U39 U45 U50 U51 U52 |
| | | IC NLSX5014 K5 | On Semi NLSX5014DTR2G | |
| | | Digi-Key NLSX5014DTR2GOSCT-ND | ON Semiconduct NLSX5014DTR2G | |
| F2 | 6 | BW-832-719 | IC AD5263 digital pot 4-output TSSOP-24 | U6 U10 |
| | | IC AD5263 W1 | ADI AD5263BRUZ200 | |
| | | Digi-Key AD5263BRUZ200-ND | Analog Devices AD5263BRUZ200 | |
| F3 | 12 | BW-360-543 | IC LM8272 op-amp MSOP-8 | U7 U9 U11 U13 |
| | | IC LM8272 V5 | TI LM8272MM | |
| | | Digi-Key 296-35316-1-ND | Texas Instrume LM8272MMX | |
| F4 | 6 | BW-920-319 | IC PCA9306 level shifter I2C TSSOP-8 | U1 U2 |
| | | IC PCA9306 W7 | NXP PCA9306DP,118 | |
| | | Digi-Key 568-4214-6-ND | NXP PCA9306DP,118 | |
| F5 | 21 | BW-507-628 | IC MAX9611 op-amp uMAX-10 | U14 U17 U20 U23 U26 U29 U32 |
| | | IC MAX9611 R5 | Maxim MAX9611AUB+ | |
| | | Digi-Key MAX9611AUB+-ND | Maxim MAX9611AUB+ | |
| F6 | 3 | BW-822-598 | IC PCA9846 bus switch 4-channel TSSOP-16 | U35 |
| | | IC PCA9846 M6 | NXP PCA9846PWJ | |
| | | Digi-Key 568-12882-1-ND | NXP PCA9846PWJ | |
| F7 | 21 | BW-388-492 | IC ISL23315 digital pot 10K MSOP-10 | U16 U19 U22 U25 U28 U31 U34 |
| | | IC ISL23315 W7 | Intersil ISL23315WFUZ | |
| | | Digi-Key ISL23315WFUZ-ND | Intersil ISL23315WFUZ | |
| F8 | 3 | BW-468-510 | IC M24128 128Kb (16K x 8) I2C 1MHz EEPROM TSSOP-8 | U36 |
| | | IC M24128 M6 | ST M24128-BRDW6TP | |
| | | Digi-Key 497-8618-1-ND | ST Microelectr M24128-BRDW6TP | |
| G1 | 6 | BW-595-034 | IC ISL43240 quad SPDT switch SSOP-20 | U8 U12 |
| | | IC ISL43240 L4 | Intersil ISL43240IAZ | |
| | | Digi-Key ISL43240IAZ-ND | Intersil ISL43240IAZ | |
| G2 | 12 | BW-956-629 | IC TPS62361 buck switching reg pos adj BGA-16 | U40 U41 U42 U43 |
| | | IC TPS62361 A8 | TI TPS62361BYZHR | |
| | | Digi-Key 296-28830-1-ND | Texas Instrume TPS62361BYZHR | |

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| G3 | 3 | BW-669-396 | IC PCF85263A real-time clock w/alarm, battery switch-over | U37 |
| | | IC PCF85263A U7 | NXP PCF85263AT | |
| | | Digi-Key 568-12405-1-ND | NXP PCF85263AT | |
| G4 | 24 | BW-002-808 | Inductor 1uH 650mA 0603 | L5 L6 L7 L8 L9 L10 L11 L12 |
| | | IND-0603 1uH 650mA P8 | Taiyo Yuden BRL1608T1R0M | |
| | | Digi-Key 587-2897-1-ND | Taiyo Yuden BRL1608T1R0M | |
| G5 | 12 | BW-163-397 | Inductor 1uH 3.1A 1210 | L1 L2 L3 L4 |
| | | IND-1210 1uH 3.1A A7 | Murata Electronics 1277AS-H-1R0M=P2 | |
| | | Digi-Key 490-10590-1-ND | Murata 1277AS-H-1R0M=P2 | |
| G6 | 12 | BW-441-382 | LED 566nm (green) 2V 1206 | D1 D2 D3 D4 |
| | | LED green V3 | Dialight 5988270107F | |
| | | Digi-Key 350-2053-6-ND | Dialight 5988270107F | |
| G7 | 12 | BW-418-701 | MOSFET N-CH 20V 1.3A SOT-23 | M1 M2 M3 M4 |
| | | Q-NMOS NDS331N C3 | ON Semi NDS331N | |
| | | Digi-Key NDS331NCT-ND | ON Semiconduct NDS331N | |
| G8 | 3 | BW-691-371 | MOSFET N-CH 60V 4A SOT223 | M5 |
| | | Q-NMOS NDT3055L C5 | ON Semi NDT3055L | |
| | | Digi-Key NDT3055LCT-ND | ON Semiconduct NDT3055L | |
| H1 | 12 | BW-800-965 | Res 40.2K 0.5% 1/16W 0402 | R43 R44 R45 R46 |
| | | R.5%-0402 40.2K W7 | Susumu RR0510P-4022-D | |
| | | Digi-Key RR05P40.2KDCT-ND | SusumU RR0510P-4022-D | |
| H2 | 24 | BW-783-395 | Res 49.9 1% 1/16W 0402 | R107 R110 R112 R113 R115 R118 R119 R120 |
| | | R1%-0402 49.9 R5 | Vishay CRCW040249R9FKEDC | |
| | | Digi-Key 541-3967-1-ND | Vishay CRCW040249R9FKEDC | |
| H3 | 21 | BW-182-504 | Res 200 1% 1/10W 0402 | R48 R51 R54 R57 R60 R63 R66 |
| | | R1%-0402 200 C8 | Panasonic ERJ-2RKF2000X | |
| | | Digi-Key P200LCT-ND | Panasonic ERJ-2RKF2000X | |
| H4 | 12 | BW-531-013 | Res 249 1% 1/10W 0402 | R72 R74 R79 R82 |
| | | R1%-0402 249 L3 | Panasonic ERJ-2RKF2490X | |
| | | Digi-Key P249LCT-ND | Panasonic ERJ-2RKF2490X | |
| H5 | 6 | BW-038-026 | Res 360 1% 1/16W 0402 | R109 R117 |
| | | R1%-0402 360 V2 | Vishay CRCW0402360RFKED | |
| | | Digi-Key 541-360LCT-ND | Vishay CRCW0402360RFKED | |
| H6 | 6 | BW-686-191 | Res 680 1% 1/16W 0402 | R108 R116 |
| | | R1%-0402 680 C8 | Vishay CRCW0402680RFKED | |
| | | Digi-Key 541-680LCT-ND | Vishay CRCW0402680RFKED | |
| H7 | 21 | BW-117-435 | Res 1.24K 1% 1/16W 0402 | R49 R52 R55 R58 R61 R64 R67 |
| | | R1%-0402 1.24K H4 | Vishay CRCW04021K24FKED | |
| | | Digi-Key 541-1.24KLCT-ND | Vishay CRCW04021K24FKED | |

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| H8 | 3 | BW-976-525 | Res 2.2K 1% 1/16W 0402 | R106 |
| | | R1%-0402 2.2K H5 | Yageo RC0402FR-072K2L | |
| | | Digi-Key 311-2.20KLRCT-ND | Yageo RC0402FR-072K2L | |
| J1 | 6 | BW-026-055 | Res 5.1K 1% 1/16W 0402 | R111 R114 |
| | | R1%-0402 5.1K G6 | Vishay CRCW04025K10FKED | |
| | | Digi-Key 541-5.10KLCT-ND | Vishay CRCW04025K10FKED | |
| J2 | 12 | BW-687-360 | Res 10K 1% 1/16W 0402 | R101 R103 R104 R105 |
| | | R1%-0402 10K W3 | Yageo RC0402FR-0710KL | |
| | | Digi-Key 311-10.0KLRCT-ND | Yageo RC0402FR-0710KL | |
| J3 | 3 | BW-207-404 | Res 12K 1% 1/10W 0402 | R102 |
| | | R1%-0402 12K N7 | Panasonic ERJ-2RKF1202X | |
| | | Digi-Key P12.0KLCT-ND | Panasonic ERJ-2RKF1202X | |
| J4 | 21 | BW-015-470 | Res 16K 1% 1/10W 0402 | R83 R84 R85 R86 R87 R88 R89 |
| | | R1%-0402 16K C7 | Panasonic ERJ-2RKF1602X | |
| | | Digi-Key P16.0KLCT-ND | Panasonic ERJ-2RKF1602X | |
| J5 | 15 | BW-242-342 | Res 100K 1% 1/16W 0402 | R94 R95 R96 R97 R99 |
| | | R1%-0402 100K V8 | Yageo RC0402FR-07200KL | |
| | | Digi-Key 311-200KLRCT-ND | Yageo RC0402FR-07200KL | |
| J6 | 12 | BW-020-333 | Res 1 1% 1W 1508 | R90 R91 R92 R93 |
| | | R1%-1508 1 D1 | Susumu RL3720WS-1R0-F | |
| | | Digi-Key RL37WS1.00FCT-ND | Susumu RL3720WS-1R0-F | |
| J7 | 21 | BW-656-709 | Res 0.05 1% 1W 2512 | R47 R50 R53 R56 R59 R62 R65 |
| | | R1%-2512 0.05 M3 | Susumu KRL3264-C-R050-F-T1 | |
| | | Digi-Key KRL32C.050CT-ND | Susumu KRL3264-C-R050-F-T1 | |
| J8 | 153 | BW-740-618 | Res 3.9K 5% 1/10W 0402 | R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16 R17 R18 R19 R20 R21 R22 R23 |
| | | R5%-0402 3.9K N1 | Panasonic ERJ-2GEJ392X | |
| | | Digi-Key P3.9KJCT-ND | Panasonic ERJ-2GEJ392X | |
| K1 | 6 | BW-258-029 | Res 200K 5% 1/16W 0402 | R33 R40 |
| | | R5%-0402 200K J3 | Yageo RC0402JR-07200KL | |
| | | Digi-Key 311-200KJRCT-ND | Yageo RC0402JR-07200KL | |
| K2 | 3 | BW-657-023 | Res 0 1/4W 1206 | R68 |
| | | RES 0 W1 | Vishay CRCW12060000Z0EAC | |
| | | Digi-Key 541-4170-1-ND | Vishay CRCW12060000Z0EAC | |
| K3 | 18 | BW-971-870 | Res 0 1/10W 0603 | R98 R100 R130 R131 R132 R133 |
| | | RES 0 D5 | Panasonic ERJ-3GEY0R00V | |
| | | Mouser Electroni 667-ERJ-3GEY0R00V | Panasonic ERJ-3GEY0R00V | |
| K4 | 6 | BW-375-090 | Diode TVS 24VWM 150VC 0402 | E1 E2 |
| | | TASIL-BI PGB1010402 F8 | Littelfuse PGB1010402KR | |
| | | Digi-Key F2862CT-ND | Littlefuse PGB1010402KR | |

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