

| Reference Designator  | Value                 |
|---|-----------------------|
|   | PCBA, NANO G2         |
| PCB1  | PCB, NANO G2 REV02    |
| PCBA2   | PCBA, NANO G2_ANTENNA |
| Z12   | RF-ABSORBER           |
| Z13 Z14   | 4055-AM-51H           |
| J2  | RJ-45                 |
| J7 J13 J19  | MM8430-2610           |
| S5  | UPG2179TB             |
| S3 S4   | SKY13351-378LF        |
| S1 S2   | HWS415                |
| SW1   | TSS12-KT2-160-T30     |
| ZU1   | HEATSINK              |
| ZU7   | FIRMWARE_IMAGE        |
| R1121 R1145   | 15K                   |
| R1109 R1110 R1111 R1112 R1113 R1114   | 75                    |
| R142 R143 R217  | 56                    |
| R199 R313   | 4.7K                  |
| C399 C403 C443 R30 R38 R39 R44 R47<br>R76 R150 R152 R155 R156 R161 R162<br>R163 R164 R165 R170 R184 R185 R197<br>R201 R214 R326 R336 R337 R338 R347<br>R363 R374 R375 R378 R380 R381 R382<br>R383 R386 R392 R395 R449 R450 R461<br>R468 R469 R470 R492 R523 R525 R526<br>R527 R529 R530 R614 R1108 R1123 R1133<br>R1134 R1136 R1137 R1140 R1143 R1147<br>R1152 R1153 R1155 R1159 R1160 R1233<br>R1239 R1243 | 0                     |
| R32 R33 R37 R121 R441 R442  | 1.0K                  |
| R210 R447   | 0                     |
| R215  | 10K                   |
| R202 R226 R372 R373 R524 R1139 R1142  | 49.9                  |
| R29 R34 R36 R51 R52 R55 R57 R63 R64<br>R69 R71 R79 R111 R151 R154 R203 R318<br>R329 R351 R364 R368 R369 R370 R371<br>R397 R398 R399 R412 R413 R414 R418<br>R420 R421 R426 R427 R528 R1074 R1076<br>R1131 R1138 R1146 R1151 R1234  | 10K                   |
| R208 R209 R211 R212 R223 R445   | 0                     |

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| R1235 R1236 R1237 R1238                               | 100                 |
| R357  | 10                  |
| R145 R153 R216 R1162 R1163                            | 510                 |
| R204  | 121K                |
| R358 R359   | 499                 |
| R339 R352   | 3.3                 |
| R391 R396   | 26.1K               |
| R35   | 8.45K               |
| R315  | 49.9K               |
| R41 R42   | 22                  |
| R73 R74 R75 R77 R241 R344                             | 22                  |
| R314  | 226K                |
| R1240   | 0                   |
| R46   | 2.37K               |
| R138  | 46.4K               |
| R200  | 130K                |
| R1072   | 953                 |
| RP10 RP1 RP2 RP36 RP37 RP3 RP4 RP5<br>RP6 RP7 RP8 RP9 | 22                  |
| R109 R166   | 220                 |
| R1073   | 191                 |
| R186  | 4.7K                |
| R345 R346   | 576                 |
| L49 L54   | 22NH                |
| L3  | 2.2UH               |
| L9  | 6.8UH               |
| L33 L34   | 1nH                 |
| L14   | 4.7uH               |
| L45   | 2.2uH               |
| L56   | 4.3NH               |
| L4 L32  | 3.3uH_3A            |
| T1  | G24101SCGX          |
| F4 F5   | BLM15AG121SN1D      |
| L47 L52   | BLM15AX102SN1D      |
| FL1 FL2 FL3 FL4                                       | LFB185G37CF2D114    |
| F6 F7   | TFSC06054125-2113AX |
| Q6 Q7 Q8 Q9   | 2N3904              |

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| U16   | PC3H7        |
| Q2 Q4 Q5  | MMBT2907A    |
| D36   | B260A-13-F   |
| D907  | 1N4148       |
| D31 D32 D33 D34   | LED-GRN-SMT  |
| D908 D909 D910 D911 D912 D913   | LED-BLUE-SMT |
| D6  | SMBJ24A      |
| D14   | AOZ8851DI-05 |
| D2 D3   | AOZ8328      |
| C196 C200   | 22PF         |
| C416 C439 C450 C451   | 12PF         |
| C1756   | 9.0PF        |
| C458 C462   | 2.0PF        |
| C1373 C1385   | 1PF          |
| C359  | 2.2PF        |
| C192 C241   | 22PF         |
| C98 C101 C149 C150 C151 C152 C166<br>C167 C233 C247 C271 C279 C286 C287<br>C302 C313 C315 C317 C318 C322 C329<br>C336 C337 C338 C339 C353 C355 C369<br>C370 C1372 C1384 | 0.01UF       |
| C99 C119 C272 C294  | 1000PF       |

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| C95 C96 C103 C104 C105 C106 C107 C108<br>C109 C110 C111 C112 C113 C114 C115<br>C116 C117 C118 C143 C144 C147 C148<br>C160 C161 C162 C170 C171 C172 C194<br>C195 C202 C203 C205 C208 C217 C221<br>C223 C224 C232 C236 C238 C239 C243<br>C244 C246 C256 C261 C264 C265 C266<br>C267 C269 C274 C275 C278 C285 C288<br>C293 C295 C296 C301 C304 C309 C310<br>C311 C316 C319 C324 C325 C326 C328<br>C330 C333 C334 C335 C340 C343 C344<br>C346 C347 C348 C350 C351 C352 C354<br>C358 C362 C363 C365 C367 C368 C372<br>C375 C382 C384 C387 C407 C409 C410<br>C414 C419 C423 C424 C431 C432 C433<br>C434 C435 C454 C479 C480 C481 C482<br>C483 C484 C485 C486 C487 C488 C489<br>C490 C491 C492 C493 C494 C495 C496<br>C497 C498 C499 C501 C502 C503 C504<br>C505 C506 C507 C508 C511 C514 C521<br>C1365 C1366 C1367 C1368 C1397 C1401<br>C1402 | 0.1UF  |
| C1374 C1386   | 0.3PF  |
| C254 C377   | 22UF   |
| C398 C402 C1377 C1381 C1389 C1393   | 3.3PF  |
| C156 C158   | 0.1UF  |
| C373 C374   | 27PF   |
| C417 C418 C442  | 9.1PF  |
| C154 C155   | 10UF   |
| C1399 C1400   | 5.6PF  |
| C189 C510   | 4.7UF  |
| C193 C197 C222 C242 C255 C376 C420<br>C429 C500 C509 C513 C515 C516 C519<br>C1396   | 1UF    |
| C234 C235 C284 C388 C520 C522   | 2.2UF  |
| C237 C257   | 10UF   |
| C157  | 1UF    |
| C159 C240   | 22UF   |
| C153  | 1800PF |
| C473 C474   | .5PF   |
| C141 C199 C201 C204 C229 C230 C381<br>C512 C517 C518  | 22UF   |
| C470 C471 C472 C1375 C1387 L50 L55  | 8.2PF  |
| C389 C390 C392 C393 C475 C476   | 0.5PF  |
| C345 C412   | 220PF  |

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| C100 C219 C220 C248 C249 C250 C263<br>C280 C281 C290 C298 C320 C331 C356<br>C360 C361 C391 C394 C397 C415 C430<br>C437 C448 C1358 C1754 C1758 | 10PF   |
| C1382 C1394   | 0.1pF  |
| C97 C102 C190 C207 C210 C245 C251<br>C259 C282 C283 C291 C300 C307 C312<br>C321 C327 C349 C364 C371 C408 C413<br>C427 C436 C1359 C1361        | 10UF   |
| C169 C206 C211 C231 C253 C270 C273<br>C289 C292 C305 C308 C314 C323 C426<br>C452  | 1UF  |
| C1369   | 2.2UF  |
| C209  | 1000PF   |
| C1755 C1757 C1761   | 9pF  |
| C1759 C1760   | 2.7pF  |
| Y1  | 25.000MHz  |
| Y3 Y4   | 40MHz  |
| U13 U14 U15   | NC7NZ34K8X   |
| VR1 VR2   | RT8058   |
| VR3   | AOZ1212AI  |
| U21   | MM74HC595M   |
| U12   | STM1816Twx7F   |
| U2  | DDR2_800_64MX16_BGA84  |
| U3  | AR8033   |
| U23 U25   | NC7S04P5X  |
| U11   | U-AME-G1-BR4A  |
| U4 U8   | AWL5910  |
| U1  | QCA9557  |
| U22 U24   | sky65981   |
| U27 U28   | NC7S32P5X  |
| U7  | EN25QH128  |
| Z6 Z7 Z8 Z9 Z10   | M2.5X4 P-head Philips Machine Screw With<br>Internal-Tooth Lock Washer |

| Description  |
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| PCBA, NANO G2  |
| PCB, NANO G2 REV02   |
| PCBA, NANO G2 BOT ANTENNA  |
| RF ABSORBER MATERIAL INSIDE SHIELD COVER 56mm X 23mm             |
| EMI GASKET 4mm(T)x8mm(W)x4mm(L) 4055-AM-51H                      |
| CONN, RECEPT, RJ-45, Modular Jack, 8 pin, SHIELDED,SIDE, PCB SMT |
| CONN MW COAXIAL WITH SWITCH SMD                                  |
| GaAs Broadband,SPDT SWITCH,6-PIN MINIMOLD 0-3GHz                 |
| IC GaAs SPDT Switch 2G -6GHz QFN6 1X1                            |
| GaAs Broadband DPDT Switch DC - 0.9GHz 6GHz                      |
| SWITCH, TACT switch, SMT, RIGHT ANGLE, TSS12-KT2-160-T30         |
| IC HEATSINK 15 X 14.8mm, HEIGHT 9.8mm                            |
| Firmware, XC.qca955x.LSDK-ART.NBE-5AC-G2-v2                      |
| RES, 15K OHM, 1/16W, 5%, 0402, SMD                               |
| RES, 75 OHM, 1/10W, 5%, 0603, SMD                                |
| RES 56 OHM 1/16W 5% 0402 SMD                                     |
| RES,0402,4.7K OHMS, +/- 5%, 1/16W                                |
| RES,0402,0 OHMS, +/- 5%, 1/16W                                   |
| RES,0402,1.0K OHMS, +/- 1%, 1/16 W                               |
| RES,0805,0 OHM, 1/8W   |
| RES,0402,10K OHMS, +/- 5%, 1/16W                                 |
| RES,0402,49.9 OHMS, +/- 1%, 1/16W                                |
| RES 10.0K OHM 1/16W 1% 0402 SMD                                  |
| RES 0.0 OHM 1/10W 5% 0603 SMD                                    |

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| RES 100 OHM 1/16W 1% 0402 SMD                                    |
| RES 10.0 OHM 1/16W 1% 0402 SMD                                   |
| RES 510 OHM 1/16W 1% SMD 0402                                    |
| RES 121K OHM 1/16W 1% 0402 SMD                                   |
| RES 499 OHM 1/16W 1% SMD 0402                                    |
| RES 3.30 OHM 1/16W 1% 0402 SMD                                   |
| RES 26.1K OHM 1/16W 1% 0402 SMD                                  |
| RES 8.45K OHM 1/16W 1% 0402 SMD                                  |
| RES 49.9K OHM 1/16W 1% 0402 SMD                                  |
| RES 22 OHM 1/16W 5% 0402 SMD                                     |
| RES 22.0 OHM 1/16W 1% 0402 SMD                                   |
| RES 226K OHM 1/16W 1% 0402 SMD                                   |
| RES 0.0 OHM 1/20W 5% 0201 SMD                                    |
| RES 2.37K OHM 1/16W 1% 0402 SMD                                  |
| RES 46.4K OHM 1/16W 1% 0402 SMD                                  |
| RES 130K OHM 1/16W 1% 0402 SMD                                   |
| RES 953 OHM 1/16W 1% 0402 SMD                                    |
| RES, NTKW, 22 OHM, X4, ISOLATED,<br>1/32W, 5%, SMT 0402X4        |
| RES 220 OHM 1/10W 1% 0402 SMD                                    |
| RES, 191 OHM 1/10W 1% 0603 SMD                                   |
| RES 4.70K OHM 1/16W 1% 0402 SMD                                  |
| RES, 576 OHMS, 1%, 1/16W, 0402                                   |
| INDUCTOR HI FREQ 22NH 5% 0402                                    |
| IND, FERRITE, 2.2uH, +/-20%                                      |
| INDUCTOR 6.8UH 2.9A 20% SMD 7.30mm x<br>7.30mm x 4.50mm          |
| INDUCTOR 1.0NH +/- 0.1nH, 400MA 0402                             |
| INDUCTOR POWER 4.7UH 1.0A SMD, 3mm<br>x 3mm                      |
| Chip IND,1008,2.2uH,1300mA,+/-20% for<br>DCDC                    |
| INDUCTOR 4.3 +/- 0.2NH 0201 5.8GHz<br>230mA                      |
| IND, POWER INDUCTOR SHIELDED 3.3UH<br>3.0A SMD 5 x 5 x 3 mm      |
| 10/100/1000 BASE-T Magnetics MODULES<br>802.3aF 360mA G24101SCGX |
| FERRITE CHIP 120 OHM 500MA 0402                                  |
| FILTER, FERRITE BEAD 1KOhm@100MHz,<br>350mA, DRC 490mOhm Max     |
| RF_SPEC,BAND PASS FILTER,5370 MHz,<br>+/-470MHz, WIFI,1608       |
| Wide Band Coupler 2.4G and 5G                                    |
| (DUPLICATE, USE 130-00002) TRANS NPN<br>SW 200MA 40V SOT23       |

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| PHOTOCOUPLER TRAN OUT 4-SMD  |
| TRANSISTOR GP PNP AMP SOT-23   |
| DIODE SCHOTTKY 2A 60V SMA  |
| DIODE SWITCH 75V 400MW SOD323  |
| LED GREEN CLEAR 0603 RT ANG SMD  |
| LED INGAN BLU WATER CLR 0603 SMD,<br>Wavelength=473nm, Millicandela<br>Rating=140mcd |
| DIODE TVS 24V 600W UNI-DIR SMB   |
| Ultra Low Capacitance One-line Bidirectional<br>TVS Diode, 0201                      |
| TVS 2.5V, 32A SURGE, 450W, DFN-10<br>3.0X2.0mm                                       |
| CAP, CER, 22PF, 50V, NPO, 5%, 0402, SMD  |
| CAP, CER, 12PF, 50V, NPO, 5%, 0402, SMD  |
| CAP, CER, 9.0PF, 50V, NPO, 0.5PF/Tol,<br>0402, SMD                                   |
| CAP, CER, 2.0PF, 50V, NPO, 0.25PF/Tol,<br>0402, SMD                                  |
| CAP,0402,NPO,1pF,+/- 0.25pF,50V  |
| CAP,0402,NPO,2.2pF,+/- 0.25pF, 50V   |
| CAP 22PF 50V CERAMIC NP0 0402  |
| CAP, CER 0.01UF 25V 10% X7R 0402   |
| CAP 1000PF 50V CERAMIC X7R 0402  |



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| CAP CER .10UF 25V X5R 0402                                 |
| CAP CERAMIC 0.3PF HIG FREQ 50V C0G 0402                    |
| CAP CER 22UF 16V X5R 20% 1210                              |
| CAP CERAMIC 3.3PF 50V NP0 0402                             |
| CAP CERAMIC .1UF 50V X7R 0603                              |
| CAP CERAMIC 27PF 50V NP0 0402                              |
| CAP CERAMIC 9.1PF 50V C0G 0402                             |
| CAP CER 10UF 35V X5R 1210                                  |
| CAP CER 5.6PF 50V C0G 0402                                 |
| CAP, CER 4.7UF 6.3V X5R 0603 10%                           |
| CAP, CER 1.0UF 6.3V X5R 10% 0402                           |
| CAP, CER 2.2UF 20% 6.3V X5R 0402                           |
| CAP, CER 10UF 6.3V X7R 10% 0805                            |
| CAP CER 1.0UF 25V X7R 0805                                 |
| CAP CERAMIC 22UF 6.3V X5R 1206 LOW PROFILE h 1.1mm OR LESS |
| CAP 1800PF 50V CERAMIC X7R 0402 10%                        |
| CAP CER .5PF 25V C0G 0201                                  |
| CAP CER 22UF 6.3V 20% X5R 0805                             |
| CAP CERM 8.2PF 50V C0G 0402                                |
| CAP CERM .5PF 50V +-0.1pF C0G 0402 RF                      |
| CAP 220PF 50V CERAMIC X7R 0402                             |

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| CAP CERAMIC 10PF 50V NP0 0402  |
| CAP CERAMIC .10PF 25V C0G 0402   |
| CAP CER 10UF 10V X5R 20% 0603  |
| CAP, CER 1.0UF 16V X5R 0402  |
| CAP CER 2.2UF 10V 10% X7R 0603   |
| CAP CER 1000PF 6.3V 10% X5R 0402   |
| CAP, 9.0pF COG +/- 0.25pF 50V 0201 SMD                                       |
| CAP 0201 COG 2.7pF +/-0.05pF 25V   |
| XTAL, 25MHz, 4pin SMD, 10PPM, 10pF, Ultra Thin 3.2mm x 2.5mm, 7M25000013     |
| XTAL,SMD,40MHz,4pin,12pF, +/- 10ppm,3.2X2.5MM                                |
| IC, TRIPLE BUFFER GATE, US8  |
| 1MHz, 2A, High Efficiency PWM Step-Down DC/DC Converter                      |
| IC, 3A, 4.5V to 27V Step Down Regulator, AOZ1212AI, SOIC-8                   |
| IC, REGISTER W/LATCH 8BIT 16-SOIC  |
| IC, ST,3.0V, Voltage supervisor w/reset , SOT-23                             |
| IC, DDR2 800 5-5-5 SDRAM 1Gb 8M x 16 x 8 banks 84-FBGA                       |
| IC INTEGRATED 10/100/1000 GIGABIT ETHERNET SGMII TRANSCEIVER QFN 48PIN 6X6MM |
| IC, INVERTER HS SINGLE SC70-5  |
| IC, U-AME-G1-BR4A DUAL BAND 2x2 MIMO 802.11AC/ABGN WLAN SOC                  |
| IC, AWL5910 802.11a/n/ac 5 GHz Power Amplifier, 4x4mm QFN                    |
| IC, QCA9557 802.11n 2x2 DUAL BAND WLAN SoC 2.4/5GHz for advanced AP          |
| IC, 5 GHz, 802.11ac/n Low-Noise Amplifier                                    |
| IC, 7S32, Tiny Logic SH 2-Input OR Gate, SC-70                               |
| IC,128 Mbit, Low Voltage, Serial Flash Memory SMT SO-16W                     |
| M2.5X4 P-head Philips Machine Screw With Internal-Tooth Lock Washer          |