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| Eval Board Name | SI5332 48-PIN QFN CUSTOMER EVB |
| Revision | 2.0 |

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| CreationDate | Proto Rev | Released |
| 12/8/2016 | 1.00 | 0 |

| NI | Quantity | Reference | Value | Description | PCB Footprint | ArenaPN | ManufacturerPN | Manufacturer |
|----|----------|--|---------------------|---|--------------------|-----------|-----------------------|--------------------|
| | 9 | C1 C5 C9 C13 C17 C20 C28 C30 C33 C109 C110 C111 C112 C113 C114 C115 C116 C117 C118 C119 C120 C121 C122 C123 C124 C125 C126 C127 C128 C129 C130 C131 C132 | 0.01uF | CAP, 0.01uF, 16V, ±20%, X7R, 0603 | C0603 | 120-00172 | C0603X7R160-103M | Venkel |
| | 24 | C133 C135 C137 C139 C141 C143 C145 C147 | 2pF | CAP, 2pF, 50V, ±0.1pF, C0G, 0402 | C0402 C0402L | 120-00370 | GRM1555C1H2R0BA01D | MuRata |
| | 8 | C134 C136 C138 C140 C142 C144 C146 C148 | 0.1uF | CAP, 0.1uF, 10V, ±10%, X7R, 0402 | C0402 C0402L | 120-00384 | GRM155R71A104KA01D | MuRata |
| | 8 | C2 C3 C10 C11 C18 C21 C25 C26 C34 | 1uF | CAP, 1uF, 10V, ±10%, X7R, 0603 | C0603 C0603L | 120-00387 | GRM188R71A105KA61D | MuRata |
| | 9 | C36 C40 C41 C45 C47 C55 | 4.7uF | CAP, 4.7uF, 10V, ±20%, X7R, 1206 | C1206 | 120-00269 | C1206X7R100-475M | Venkel |
| | 6 | C37 C38 C39 C42 C43 C44 C48 C53 C103 C104 C106 | 10uF | CAP, 10uF, 6.3V, ±20%, X5R, 0603 | C0603 C0603L | 120-00147 | C0603X5R6R3-106M | Venkel |
| | 11 | C4 C6 C12 C14 C19 C22 C27 C29 C98 | 0.1uF | CAP, 0.1uF, 10V, ±10%, X7R, 0402 | C0402 C0402L | 120-00078 | C0402X7R100-104K | Venkel |
| | 9 | C50 C52 | 10uF | CAP, 10uF, 25V, ±20%, TANT, CASE C | C6032 | 120-00487 | T491C106M025ZT | Kemet |
| | 2 | | 18pF | CAP, 18pF, 50V, ±2%, C0G, 0402 | C0402 | 120-00028 | GRM1555C1H180GA01 | MuRata |
| | 24 | C57 C58 C61 C62 C63 C64 C65 C69 C70 C71 C72 C73 C74 C78 C79 C80 C81 C82 C83 C87 C88 C89 C90 C92 C59 C60 C66 C67 C68 C75 C76 C77 C84 C85 C86 C91 | 0.01uF | CAP, 0.01uF, 50V, ±10%, X7R, 0402 | C0402 C0402L | 120-00092 | GRM155R71H103KA88D | MuRata |
| | 12 | C7 C8 C15 C16 C23 C24 C31 C32 C35 C93 C95 C99 C105 | 56pF | CAP, 56pF, 50V, ±2%, C0G, 0402 | C0402 | 120-00055 | GRM1555C1H560GA01D | MuRata |
| | 13 | C94 C96 C97 C100 C101 C102 C107 C108 | 1uF | CAP, 1uF, 16V, ±20%, X7R, 0805 | C0805 | 120-00235 | C0805X7R160-105M | Venkel |
| | 8 | D1 | 0.1uF | CAP, 0.1uF, 16V, ±10%, X7R, 0805 | C0805 | 120-00233 | C0805X7R160-104K | Venkel |
| | 1 | D2 | Blue | Diode Array, TVS Avalanche LED, Blue, InGaN, 20mA, 78mW, 55mcd, 0805 | SOT143-AKKK SOT143 | 172-00037 | SP0503BAHTG | Littlefuse |
| | 2 | D3 D4 | Green | LED, Green, InGaN, 20mA, 78mW, 145mcd, 0805 | LED-HSMX-C170 | 163-00033 | HSMR-C170 | Avago Technologies |
| | 1 | FB1 | 22 Ohm | LED, Green, InGaN, 20mA, 78mW, 145mcd, 0805 | LED-HSMX-C170 | 163-00032 | HSMQ-C170 | Avago Technologies |
| | | J1 J2 J3 J4 J5 J6 J7 J8 J9 J10 J12 J13 J14 J15 J16 J17 J18 J19 J20 J21 J22 J23 J24 J25 J26 J27 J28 J29 J30 J31 | | FERRITE BEAD, 22 Ohm @100MHZ, 0805 | L0805 | 155-00029 | BLM21PG220SN1 | MuRata |
| | 30 | J11 | SMA | CONN, SMA, 50 Ohm, End Launch Jack Receptacle - Round Contact, Edge Mount | SMA-EDGE-3 | 125-00385 | 142-0701-801 | Johnson Components |
| | 1 | J32 | 2x6.35mm | Terminal Block, 2 pos, 6.35 mm, 10-30AWG, 300V, 32A | CONN-TB-1714955 | 125-00486 | 1714955 | Phoenix Contact |
| | 1 | J33 | CONN TRBLK 2 | CONN, TERM BLOCK 2POS, 24A, 5MM PITCH, PTH | CONN-TB-1711026 | 125-00015 | 1711026 | PHOENIX CONTACT |
| | 1 | J34 | USB Type B | CONN, USB Type B, Right Angle, PTH | CONN-USB-B | 125-00494 | 61729-0010BLF | FCI |
| | 1 | JP10 JP11 JP12 JP13 JP14 JP15 JP16 | 5X2 Shrouded Header | CONN, HEADER, SHROUDED, 2X5, 0.1in, STR, Au | CONN2X5-4W | 125-00149 | 5103309-1 | Tyco |
| | 8 | JP17 | Header 1x2 TH | Header, 2x1, 0.1in pitch, 10u Full Au Plated | CONN1X2 | 125-00294 | TSW-102-07-G-S | Samtec |
| | 1 | JP9 | HEADER 1x3 | Header, 3x1, 0.1in pitch, Tin Plated | CONN-1X3 | 125-00305 | TSW-103-07-T-S | Samtec |
| | 9 | JS1 JS2 JS3 JS4 JS5 JS6 JS7 JS8 JS9 | Jumper Shunt | Shunt, 1x2, 0.1in pitch, Tin plating | SHUNT | 125-00406 | SNT-100-BK-T | Samtec |
| | 8 | R1 R2 R19 R20 R36 R37 R51 R52 | 30.1 | RES, 30.1 Ohm, 1/4W, ±1%, ThickFilm, 1206 | R1206 | 180-00600 | CR1206-4W-30R1F | Venkel |
| | 5 | R11 R15 R28 R33 R45 | 6.65K | RES, 6.65K, 1/16W, ±1%, ThickFilm, 0603 | R0603 | 180-00451 | CR0603-16W-6651F | Venkel |
| | 3 | R12 R16 R29 | 12.1K | RES, 12.1K, 1/16W, ±1%, ThickFilm, 0603 | R0603 | 180-00349 | CR0603-16W-1212F | Venkel |
| | 3 | R13 R17 R30 | 40.2K | RES, 40.2K, 1/16W, ±1%, ThickFilm, 0402 | R0402 | 180-00155 | CR0402-16W-4022F | Venkel |
| | 3 | R14 R18 R31 | 43.2K | RES, 43.2K, 1/10W, ±1%, ThickFilm, 0603 | R0603 | | RC0603FR-0743K2L | Yageo |
| | 1 | R167 | 0.050 | RES, 0.050 Ohm, 2W, ±100PPM, ±1%, ThickFilm, 2512 | R2512 | 180-00724 | LRC-LR2512LF-01-R050F | TT Electronics |
| | 1 | R168 | 0 | RES, 0 Ohm, 2A, ThickFilm, 1206 | R1206 | 180-00582 | CR1206-4W-000 | Venkel |
| | 1 | R170 | 100 | RES, 100 Ohm, 1/10W, ±1%, ThickFilm, 0805 | R0805 | 180-00477 | CR0805-10W-1000F | Venkel |
| | 7 | R173 R174 R175 R176 R177 R178 R187 | 1K | RES, 1K, 1/10W, ±1%, ThickFilm, 0805 | R0805 | 180-00478 | CR0805-10W-1001F | Venkel |
| | 2 | R179 R180 | 10K | RES, 10K, 1/10W, ±1%, ThickFilm, 0805 | R0805 | 180-00479 | CR0805-10W-1002F | Venkel |
| | 2 | R185 R186 | 10.0K | RES, 10.0K, 1/10W, ±25PPM, ±0.1%, ThinFilm, 0603 | R0603 | 180-00839 | ERA-3AEB103V | Panasonic |

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| | | R189 R190 R191 R192 R193 R194 R195 | 2.49K | RES, 2.49K, 1/16W, ±1%, ThickFilm, 0402 | R0402 | 180-00132 | CR0402-16W-2491F | Venkel |
| | 3 | R3 R4 R21 | 9.10K | RES, 9.10K, 1/16W, ±1%, ThickFilm, 0603 | R0603 | 180-00470 | CR0603-16W-9101F | Venkel |
| | 2 | R32 R44 | 3.74K | RES, 3.74K, 1/16W, ±1%, ThickFilm, 0603 | R0603 | 180-00420 | CR0603-16W-3741F | Venkel |
| | 2 | R34 R46 | 21.5K | RES, 21.5K, 1/10W, ±1%, ThickFilm, 0603 | R0603 | 180-00260 | CR0603-10W-2152F | Venkel |
| | 3 | R35 R47 R169 | 8.06K | RES, 8.06K, 1/16W, ±1%, ThickFilm, 0603 | R0603 | 180-00463 | CR0603-16W-8061F | Venkel |
| | 3 | R48 R59 R62 | 4.42K | RES, 4.42K, 1/16W, ±1%, ThickFilm, 0603 | R0603 | 180-00426 | CR0603-16W-4421F | Venkel |
| | 3 | R49 R60 R63 | 9.53K | RES, 9.53K, 1/16W, ±1%, ThickFilm, 0603 | R0603 | 180-00472 | CR0603-16W-9531F | Venkel |
| | | R5 R7 R22 R23 R25 R38 R39 R41 | | | | | | |
| | 15 | R43 R53 R54 R55 R56 R65 R66 | 10K | RES, 10K, 1/16W, ±1%, ThickFilm, 0603 | R0603 | 180-00340 | CR0603-16W-1002F | Venkel |
| | 5 | R50 R61 R64 R171 R172 | 5.90K | RES, 5.90K, 1/16W, ±1%, ThickFilm, 0603 | R0603 | 180-00443 | CR0603-16W-5901F | Venkel |
| | | R6 R8 R24 R26 R40 R42 R57 R58 | | | | | | |
| | 9 | R68 | 1.0 | RES, 1.0 Ohm, 1/10W, ±1%, ThickFilm, 0603 | R0603 | 180-00250 | CR0603-10W-1R00F | Venkel |
| | 1 | R67 | 2.49K | RES, 2.49K, 1/16W, ±1%, ThickFilm, 0603 | R0603 | 180-00393 | CR0603-16W-2491F | Venkel |
| | 2 | R74 R78 | 2.32K | RES, 2.32K, 1/16W, ±1%, ThickFilm, 0603 | R0603 | 180-00388 | CR0603-16W-2321F | Venkel |
| | | R75 R79 R81 R82 R93 R94 R95 R96 R97 R113 R114 R115 R116 R117 R118 R134 R135 R136 R137 R138 R139 R155 R156 R157 R158 R164 R188 R196 R197 R198 R199 R200 | | | | | | |
| | 34 | R201 R202 | 0 | RES, 0 Ohm, 1A, ThickFilm, 0402 | R0402 R0402L | 180-00081 | CR0402-16W-000 | Venkel |
| | 2 | R76 R77 | 1K | RES, 1K, 1/16W, ±5%, ThickFilm, 0402 | R0402 | 180-00087 | CR0402-16W-102J | Venkel |
| | | R87 R88 R104 R105 R106 R125 | | | | | | |
| | 12 | R126 R127 R146 R147 R148 R161 | 0 | RES, 0 Ohm, 1A, ThickFilm, 0603 | R0603 R0603L | 180-00337 | CR0603-16W-000 | Venkel |
| | 3 | R9 R10 R27 | 787 | RES, 787 Ohm, 1/16W, ±1%, ThickFilm, 0402 | R0402 | 180-00201 | CR0402-16W-7870F | Venkel |
| | 1 | S1 | SW PUSHBUTTON | SWITCH, PB, TACTILE, NO, 6x6mm, PTH | SW4N6.5X4.5-PB | 185-00001 | 101-0161-EV | Mountain Switch |
| | 1 | U1 | SI5332-48QFN | IC, Low Jitter Any-Frequency Clock Generator, 12 Outputs, QFN48 | QFN48M6X6P0.4E3.7 | | SI5332A-C-GM3 | Silabs |
| | 1 | Y1 | 25MHz | XTAL 25MHz, 3.2MM X 2.5MM, LOW PROFILE SMD | XTAL4N3.2X2.5-FA238 | 165-00038 | FA-238 25.0000MB | Epson |
| | 1 | U12 | C8051F380 | IC, MCU, FULL SPEED USB, 48MIP, 64K FLASH, 4352 RAM, TQFP48 | QFP48N9X9P0.5 | 150-00417 | C8051F380-GQ | Silabs |
| | 1 | U13 | LTC4311 | IC, I2C/SMBus Accelerator, LV, SC70-6 | SC70-6N2.1P0.65 | 150-00877 | LTC4311CSC6#TRMPBF | Linear Technology |
| | 1 | U14 | PCA9517D | IC, I2C Buffer, Level Translating I2C-Bus Repeater, SO8 | SO8N6.0P1.27 | 150-00894 | PCA9517D | NXP |
| | 2 | U15 U17 | ADG728 | IC, CMOS, Low-Voltage, 2-Wire Serially-Controlled, Matrix Switch | TSSOP16N6.4P0.65 | 150-00108 | ADG728BRUZ | Analog Devices |
| | 1 | U16 | AD8628 | IC, OPAMP, Zero-Drift, Single-Supply, Rail-to-Rail | SOT23-5N | 150-00305 | AD8628AUJ-R2 | Analog Devices |
| | 2 | U18 U20 | PCA9535CPW | IC, I2C/SMBus, 16-bit GPIO Port w/INT, OD, TSSOP24 | TSSOP24N6.4P0.65 | 150-00896 | PCA9535CPW | NXP |
| | 1 | U19 | DS2431 | IC, 1024-Bit, 1-Wire EEPROM, 6TSOC | SOJ6N4.45P1.27 | 150-00028 | DS2431P+ | Maxim |
| | 3 | U2 U3 U4 | LT1763 | IC, VOLTAGE REGULATOR, LDO, 5.0V, 0.5A, SO8 | SO8N6.0P1.27 SOIC-8 | 150-00933 | LT1763CS8#PBF | Linear Technology |
| | 6 | U5 U6 U7 U8 U9 U10 | TPS76201 | IC, VOLTAGE REGULATOR, ADJ, SOT23-5 | SOT5N2.8P0.95 | 150-00960 | TPS76201DBV | TI |
| | 8 | JP1 JP2 JP3 JP4 JP5 JP6 JP7 JP8 | Header 1x2 TH | Header, 2x1, 0.1in pitch, 10u Full Au Plated | CONN1X2 | 125-00294 | TSW-102-07-G-S | Samtec |
| | 4 | SO1 SO2 SO3 SO4 | STANDOFF | | | | 1902D | Keystone Electronics |
| | 4 | MH1 MH6 MH7 | 4-40 | | MH-125NP MH-125 | | NSS-4-4-01 | Richco Plastic Co |
| Not Installed Components | | | | | | | | |
| NI | Quantity | Reference | Value | Description | PCB Footprint | ArenaPN | ManufacturerPN | Manufacturer |
| NI | 5 | C46 C49 C51 C54 C56 | 0.1uF | CAP, 0.1uF, 10V, ±10%, X7R, 0402 | C0402 C0402L | 120-00384 | GRM155R71A104KA01D | MuRata |
| NI | 2 | R165 R166 | 1K | RES, 1K, 1/10W, ±1%, ThickFilm, 0805 | R0805 | 180-00478 | CR0805-10W-1001F | Venkel |
| NI | 4 | R181 R182 R183 R184 | 0 | RES, 0 Ohm, 1A, ThickFilm, 0603 | R0603 R0603L | 180-00337 | CR0603-16W-000 | Venkel |
| NI | 2 | R73 R80 | 0 | RES, 0 Ohm, 1A, ThickFilm, 0402 | R0402 R0402L | 180-00081 | CR0402-16W-000 | Venkel |
| NI | 9 | TP1 TP2 TP3 TP4 TP5 TP6 TP7 TP8 TP9 | RED | TESTPOINT, RED, 0.050" LOOP, PTH | TESTPOINT | 160-00021 | 5000 | Keystone |
| NI | 3 | TP10 TP11 TP12 | RED | TESTPOINT, RED, PTH | TESTPOINT | 160-00020 | 151-207-RC | Kobiconn |
| NI | 1 | TP13 | BLACK | TESTPOINT, BLACK, PTH | TESTPOINT | 160-00018 | 151-203-RC | Kobiconn |
| NI | 3 | TP14 TP15 TP16 | BLUE | TESTPOINT, BLUE, PTH | TESTPOINT | 160-00019 | 151-205-RC | Kobiconn |
| NI | 24 | R83 R85 R89 R91 R98 R100 R102 R107 R109 R111 R119 R121 R123 R128 R130 R132 R140 R142 R144 R149 R151 R153 R159 R162 | 42.2 | RES, 42.2 Ohm, 1/10W, ±1%, ThickFilm, 0402 | R0402 R0402L | | CR0402-10W-42R2F | Venkel |

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| | | R84 R86 R90 R92 R99 R101 R103 R108 R110 R112 R120 R122 R124 R129 R131 R133 R141 R143 R145 | | | | | | |
| NI | 24 | R150 R152 R154 R160 R163 | 49.9 | RES, 49.9 Ohm, 1/16W, ±1%, ThickFilm, 0603 | R0603 | 180-00437 | CR0603-16W-49R9F | Venkel |
| NI | 4 | R69 R70 R71 R72 | 49.9 | RES, 49.9 Ohm, 1/16W, ±1%, ThickFilm, 0402 | R0402 R0402L | 180-00175 | CR0402-16W-49R9F | Venkel |

JS1 shorts pin 1 and pin 2 of header JP9. JS2 shorts JP10. JS3 shorts JP11. JS4 shorts JP12. JS5 shorts JP13. JS6 shorts JP14. JS7 shorts JP15. JS8 shorts JP16. JS9 shorts JP17.