| Title: | | NAS782x EVK Board BOM. | | | | |
|---|---|---|---|---|---|---|
| Company: | | PLX Technology Inc | | | | |
| BOM Revision: | | 1.7 | | | | |
| Last Modified: | | 11-May-10 | | | | |
| | | | | | | |
| Item | Quantity | Reference | Part | Value | Manufacturer | Part Number |
| | | | | | | |
| 10 | 2 | CONN1, CONN2 | SATA_STD_Molex_67490_1220 | | Molex | 67490-1220 |
| 20 | 23 | C1, C3, C6, C8, C49, C122, C123, C124, C125, C128, C129, C130, C131, C132, C133, C147, C164, C171, C172, C177, C189, C196, C202 | CAP_CER_0805 | 10uF X5R/X7R  10% 6V3 | . | . |
| 30 | 52 | C2, C4, C5, C7, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C134, C135, C136, C137, C138, C139, C140, C141, C142, C143 | CAP_CER_0201_round | 100nF X5R/X7R  10% 6V3 | . | . |
| 40 | 59 | C50, C51, C52, C53, C69, C70, C71, C72, C73, C74, C75, C76, C77, C79, C85, C86, C91, C95, C96, C97, C98, C99, C127, C153, C154, C155, C156, C157, C158, C159, C160, C161, C162, C163, C165, C166, C167, C168, C169, C170, C173, C183, C184, C185, C186, C187, C188, C190, C191, C192, C193, C194, C195, C197, C198, C199, C200, C201, C203 | CAP_CER_0402s | 100nF X5R/X7R  10% 10V | . | . |
| 50 | 2 | C56, C126 | CAP_CER_0603s | 2.2uF X5R/X7R  10% 10V | . | . |
| 60 | 8 | C60, C61, C62, C63, C64, C65, C66, C67 | CAP_CER_0402s | 10nF X5R/X7R  10% 10V | . | . |
| 70 | 1 | C68 | CAP_CER_0402s | 1uF X5R/X7R  10% 6V3 | . | . |
| 80 | 2 | C78, C80 | CAP_CER_0603s | 2.2uF X5R/X7R  10% 6V3 | . | . |
| 90 | 2 | C82, C83 | CAP_CER_0402s | 12pF COG/NPO  5% 10V | . | . |
| 100 | 1 | C88 | CAP_POL__SMT_PANASONIC_CASE_C | DNF Al Electrolytic  16V | Panasonic | EEE1AA330SR |
| 110 | 3 | C102, C216, C227 | CAP_CER_0603s | 1nF COG/NPO  5% 50V | . | . |
| 120 | 3 | C111, C117, C234 | 805 | 10uF X5R/X7R  10% 6V3 | . | . |
| 130 | 3 | C114, C119, C235 | CAP_CER_0603s | 1uF X5R/X7R  10% 6V3 | . | . |
| 140 | 2 | C144, C174 | CAP_CER_0402s | DNF COG/NPO  5% 10V | . | . |
| 150 | 12 | C145, C146, C151, C152, C175, C176, C181, C182, C236, C237, C238, C239 | CAP_CER_0402s | 1nF X5R/X7R  10% 10V | . | . |
| 160 | 4 | C148, C149, C178, C179 | CAP_CER_0402s | DNF X5R/X7R  10% 10V | . | . |
| 170 | 2 | C150, C180 | CAP_CER_1206 | 1500pF X7R  10% 1KV | Murata | |
| 180 | 4 | C204, C205, C206, C207 | D8 Case | 220uF AL  20% 6V3 | Panasonic | EEE-HC0J221XP |
| 190 | 1 | C208 | CAP_POL_SMT_PANASONIC_HC_D8 | 220uF AL  20% 16V | Panasonic | EEE-1CA221XP |
| 200 | 1 | C209 | CAP_CER_0603s | 1uF X7R  10% 16V | . | . |
| 210 | 12 | C210, C211, C212, C217, C218, C219, C220, C221, C222, C229, C230, C231 | 1206 | 10uF X5R  10% 16V | . | . |
| 220 | 1 | C213 | CAP_POL_RAD_PD100LP050LD06 | 820uF  20% 16V | Nichicon | UPW1C821MPD |
| 230 | 4 | C214, C215, C232, C233 | 1206 | 10uF X5R  20% 6V3 | . | . |
| 240 | 2 | C223, C224 | 1206 | 10uF X5R  20% 10V | . | . |
| 250 | 2 | C225, C226 | 1206 | 47uF X5R  20% 6V3 | . | . |
| 260 | 1 | C228 | CAP_CER_0603s | 1.8nF COG/NPO  5% 50V | . | . |
| 270 | 8 | D1, D2, D3, D4, D5, D6, D17, D20 | LED_CHIP_SMT_0603_KP1608 | Green | KINGBRIGHT | KP-1608SGC |
| 280 | 4 | D9, D10, D11, D12 | LED_CHIP_SMT_0603_KP1608 | Yellow | KINGBRIGHT | KP-1608SYC |
| 290 | 3 | D13, D15, D18 | LED_CHIP_SMT_0603_KP1608 | Yellow | KINGBRIGHT | KP-1608SYC |
| 300 | 1 | D14 | BZX84C3V3_SOT23 | | NXP | BZX84-C3V3 |
| 310 | 2 | D16, D19 | LED_CHIP_SMT_0603_KP1608 | Orange | KINGBRIGHT | KP-1608SEC |
| 320 | 4 | D21, D22, D23, D24 | 5A 40V | | Diodes Inc. | B540C-13-F |
| 330 | 6 | FB1, FB2, FB3, FB4, FB5, FB6 | FERRITE_SMT_0603 | 600R@100MHz Wirewound  25% | Taiyo Yuden | FBMH1608HL601-T |
| 350 | 1 | F1 | Fuse | | BOURNS | MF-PSMF050 |
| 360 | 1 | HD3 | 2.54mm 32x2 Header strip | | . | . |
| 370 | 1 | HD4 | FAN TACHO | | | |
| 380 | 1 | HD5 | Header 10x2 TH Shrouded | 20 Way straight shrouded header. | | |
| 390 | 1 | HD6 | Kycon_KPJX_4S_S_PowerConn | | Kycon | KPJX-4S-S |

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|---|---|---|---|---|---|---|
| 400 | 1 | IC1 | NAS7825 | | PLX Tech. | NAS7825 |
| 410 | 1 | IC2 | ICS841S04I | | IDT | ICS841S04BGILF |
| 420 | 1 | IC5 | DDR2_2Gb_16Mx16x8_84FBGA | | . | . |
| 430 | 1 | IC7 | SN74CB3T3257 | | TI | SN74CB3T3257DGVR |
| 430_Alt1 | 1 | IC7 | SN74CBTLV3257 | | TI | SN74CBTLV3257DGVR |
| 440 | 1 | IC11 | MT29F1G08AACWP:C | | Micron | MT29F1G08AACWP:C |
| 450 | 1 | IC15 | ISL83220ECVZ | | Intersil | ISL83220ECVZ |
| 460 | 2 | IC16, IC17 | IP1001 | | ICPlus | IP1001 |
| 470 | 4 | IC18, IC19, IC20, IC21 | AOZ1014D | | Alpha & Omega | AOZ1014DAI |
| 480 | 1 | IC22 | AP7165 | | Diodes Inc. | AP7165-FNG-7 |
| 490 | 2 | IC23, IC24 | AP7167 | | Diodes Inc. | AP7167-FNG-7 |
| 500 | 3 | JP1, JP2, JP3 | JUMPER | | . | . |
| 510 | 5 | L1, L2, L3, L4, L5 | IND_WURTH_WE_TPC_T | 0.33uH WE-TPC-T 35% | Wurth | 74402800033 |
| 520 | 3 | L6, L7, L9 | IND_COILTRONICS_DR127 | 4.7uF DR127 20% | Coiltronics | DR127-4R7-R |
| 520_alt | 3 | L6, L7, L9 | IND_COILTRONICS_DR125 | 4.7uF DR125 20% | Coiltronics | DR125-4R7-R |
| 530 | 1 | L8 | IND_SMT_EPCOS_B82464Z4xxxx | 2.2uH 20% | Epcos | B82464Z4222M |
| 540 | 2 | MAG1, MAG2 | H5007NL | | Pulse | H5007NL |
| 540_Alt1 | 2 | MAG1, MAG2 | H5004NL | | Pulse | H5004NL |
| 540_ALT2 | 2 | MAG1, MAG2 | HX5004NL | | Pulse | HX5004NL |
| 550 | 1 | OSC1 | 7mmx5mmosc_b | 25 MHz 3V3 | Cardinal | CPLLXY-A7BR-XX.XXXNP |
| 560 | 1 | OSC2 | 7mmx5mmosc_b | 12MHz 3V3 | Cardinal | CPLLXY-A7BR-XX.XXXNP |
| 570 | 2 | PWR1, PWR2 | Power Lead | | PLX Tech. | ANC000020 |
| 580 | 2 | P1, P2 | PCI_EXPRESS_MINI_x1 | | JAE | MM60-52B1-E1-R650 |
| 590 | 1 | P3 | USB type B | | Tyco | 292304-1 |
| 600 | 1 | P5 | USB type A | | Tyco | 292303-1 |
| 610 | 1 | P7 | DSUB9 - M - US | | . | . |
| 620 | 2 | P9, P10 | Mini Card Ejector | | JAE | MM60-EZH059-B5-R650 |
| 630 | 2 | P11, P12 | 3012S | | | |
| 640 | 14 | RN3, RN5, RN11, RN12, RN15, RN16, RN17, RN18, RN19, RN20, RN21, RN22, RN25, RN26 | RNET_0402x4_convex | 33R Thick Film 5% 0.063W | . | . |
| 650 | 6 | RN4, RN6 ,RN1, RN2, RN9, RN10 | RNET_0402x4_convex | 0R0 Thick Film 5% 0.063W | . | . |
| 660 | 4 | RN7, RN8, RN13, RN14 | RNET_0402x4_convex | 51R Thick Film 5% 0.063W | . | . |
| 670 | 2 | RN9, RN10 | RNET_0402x4_convex | 0R0 Thick Film 5% 0.063W | . | . |
| 680 | 2 | RN23, RN24 | RNET_0402x4_convex | 10R Thick Film 5% 0.063W | . | . |
| 690 | 5 | R1, R2, R3, R4, R194 | Res_0402 | 0R09 Thick Film 1% 0.063W | . | . |
| 700 | 7 | R18, R26, R42, R43, R51, R193, R288 | Res_0402 | 33R Thick Film 1% 0.063W | . | . |
| 701 | 2 | R5, R219 | Res_0402 | 10R Thick Film 1% 0.063W | . | . |
| 710 | 2 | R10, R36 | Res_0402 | 191R Thick Film 1% 0.063W | . | . |
| 720 | 6 | R11, R12, R13, R16, R19, R20 | Res_0402 | 412R Thick Film 1% 0.063W | . | . |
| 730 | 28 | R14, R17, R21, R25, R31, R32, R33, R61, R65, R85, R88, R89, R90, R91, R96, R97, R190, R265, R269, R271, R272, R275, R276, R279, R281, R289, R297, R298 | Res_0402 | 10K Thick Film 1% 0.063W | . | . |
| 740 | 2 | R15, R22 | Res_0402 | 475R Thick Film 1% 0.063W | . | . |
| 750 | 2 | R34, R35 | Res_0402 | 43R2 Thick Film 1% 0.063W | . | . |
| 760 | 3 | R37, R39, R40 | Res_0402 | 357R Thick Film 1% 0.063W | . | . |
| 770 | 9 | R38, R41, R79, R84, R86, R185, R68, R69, R70, | Res_0402 | 4K7 Thick Film 1% 0.063W | . | . |
| 780 | 16 | R44, R45, R46, R47, R50, R62, R64, R66, R73, R74, R102, R103, R182, R183, R184, R296 | Res_0402 | 1K Thick Film 1% 0.063W | . | . |
| 790 | 4 | R290, R291, R53, R54 | Res_0402 | 1K5 Thick Film 1% 0.063W | . | . |
| 800 | 8 | R52, R83, R179, R180, R6, R7, R8, R9, | Res_0402 | 0R0 Thick Film 1% 0.063W | . | . |
| 810 | 1 | R56 | Res_0402 | 39R Thick Film 1% 0.063W | . | . |
| 820 | 1 | R57 | Res_0402 | 1M Thick Film 1% 0.063W | . | . |
| 830 | 4 | R59, R92, R93, R191 | Res_0402 | 100R Thick Film 1% 0.063W | . | . |
| 840 | 2 | R80, R287 | Res_0402 | 24K Thick Film 1% 0.063W | . | . |
| 850 | 1 | R87 | Res_0402 | 8K2 Thick Film 1% 0.063W | . | . |
| 860 | 4 | R98, R99, R100, R101 | Res_0402 | 330R Thick Film 1% 0.063W | . | . |
| 870 | 1 | R129 | Res_0402 | 2K Thick Film 1% 0.063W | . | . |
| 880 | 3 | R131, R270, R283 | Res_0402 | 15K Thick Film 1% 0.063W | . | . |
| 890 | 1 | R188 | Res_0402 | 620R Thick Film 1% 0.063W | . | . |
| 900 | 4 | R195, R197, R230, R232 | Res_0402 | 220R Thick Film 1% 0.063W | . | . |
| 910 | 2 | R196, R231 | Res_0402 | 470R Thick Film 1% 0.063W | . | . |
| 920 | 16 | R200, R201, R202, R203, R210, R211, R212, R213, R235, R236, R237, R238, R244, R245, R246, R247 | Res_0402 | 49R9 Thick Film 1% 0.063W | . | . |
| 930 | 2 | R205, R239 | Res_0402 | 6K19 Thick Film 1% 0.063W | . | . |

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| 940 | 8 | R206, R207, R208, R209, R240, R241, R242, R243 | resistor_0603 | 75R Thick Film  1%  0.063W | . | . |
| 950 | 22 | R214, R215, R216, R217, R218, R220, R221, R223, R227, R248, R249, R250, R251, R252, R254, R256, R258, R262,R48, R49, R55, R58 | Res_0402 | 5K1 Thick Film  1%  0.063W | . | . |
| 960 | 10 | R224, R225, R226, R229, R255, R259, R260, R261, R198, R233 | Res_0402 | DNF Thick Film  1%  0.063W | . | . |
| 970 | 2 | R263, R264 | Res_1210 | 0R0 Thick Film  1% | . | . |
| 980 | 1 | R266 | Res_0603s | 10k Thick Film  1%  0.063W | . | . |
| 990 | 2 | R267, R280 | Res_0402 | 31K6 Thick Film  1%  0.063W | . | . |
| 1000 | 1 | R268 | 402 | 1k Thick Film  1%  0.063W | . | . |
| 1010 | 1 | R273 | Res_0402 | 52K3 Thick Film  1%  0.063W | . | . |
| 1020 | 1 | R274 | Res_0402 | 2K49 Thick Film  1%  0.063W | . | . |
| 1030 | 1 | R277 | Res_0402 | 22K Thick Film  1%  0.063W | . | . |
| 1040 | 1 | R278 | Res_0402 | 18K Thick Film  1%  0.063W | . | . |
| 1050 | 1 | R282 | Res_0402 | 137K Thick Film  1%  0.063W | . | . |
| 1060 | 1 | R284 | Res_0402 | 64K9 Thick Film  1%  0.063W | . | . |
| 1070 | 1 | R285 | Res_0402 | 12K Thick Film  1%  0.063W | . | . |
| 1080 | 1 | R286 | Res_0402 | 21K Thick Film  1%  0.063W | . | . |
| 1090 | 4 | R292, R293, R294, R295 | 805 | 20R Thick Film  1%  0.125W | . | . |
| 1100 | 1 | SW1 | Switch_DIL_8_SPST_Omron_A6E | | Omron | A6E-8101 |
| 1110 | 1 | SW2 | Switch_DIL_4_SPST_Omron_A6E | | Omron | A6E-4101 |
| 1120 | 3 | SW3, SW4, SW13 | Switch_SMT_Pbutton_SPST_4pad | | DTSM644N | APEM |
| 1130 | 1 | SW14 | PCB_Toggle_RA_SPDT_FAR1524245 | | . | . |
| 1140 | 1 | TH1 | Thermistor_0805 | 10K Thick Film  1%  0.125W | | |
| 1150 | 1 | TR1 | NDT452AP | | Fairchild | NDT452AP |
| 1160 | 1 | T3 | BC849C_NPN_SOT23 | | Philips | BC849C |
| 1170 | 2 | T8, T9 | BCP69T1_PNP_SOT223_4 | | ON Semi | BCP69T1G |
| 1180 | 1 | T10 | SUM55P06-19L | | Vishay Siliconix | SUM55P06-19L-E3 |
| 1180_alt | 1 | T10 | MTB50P03HDLT4G | | ON Semiconductor | MTB50P03HDLT4G |
| 1190 | 1 | X1 | 8mmx4.5mm Crystal | 8pF 50R 25MHz 50ppm | NDK | NX8045GB-25.000000MHZ. |