

Bill of Materials

2516615
DL_PC3434 Display Board

| Item | Qty | Reference | Value | Part Description | Manufacturer | Manufacturer Part Number | Alternate Part | PCB Footprint | Note |
|------|-----|---|---------------------|--|-------------------------|--------------------------|----------------|-------------------------|------|
| 1 | 1 | C1 | 2.2uF | CAP CER 2.2UF 10V 10% X7R 0805 | Samsung | CL21B225KPFNNNE | | 805 | |
| 2 | 3 | C2,C204,C213 | 1uF | CAP CER 1UF 50V 10% X5R 0603 | Samsung | CL10A105KBNNNC | | 603 | |
| 3 | 1 | C3 | 680pF | CAP CER 680PF 50V 5% COG/NP0 0402 | Murata | GRM1555C1H681JA01D | | 402 | |
| 4 | 1 | C4 | 6.8pF | CAP CER 6.8PF 50V NP0 0402 | Murata | GCM1555C1H6R8BA16D | | 402 | |
| 5 | 5 | C5,C72,C73,C76,C77 | 0.1uF | CAP CER 0.1UF 50V 10% X5R 0402 | Murata | GRM155R61H104KE19D | | 402 | |
| 6 | 2 | C6,C7 | 4.7uF | CAP CER 4.7UF 35V 10% X5R 0603 | Murata | GRM188R6YA475KE15D | | 603 | |
| 7 | 33 | C8,C10,C18,C22,C36,C38, C48,C85,C86,C88,C90,C95, C102,C104,C108,C111,C112, C113,C114,C118,C126,C127, C128,C129,C131,C132,C133, C134,C137,C138,C153,C154, C191 | 0.01uF | CAP CER 10000PF 16V X7R 10% 0402 | TDK | C1005X7R1C103K | | 402 | |
| 8 | 44 | C103,C106,C107,C109,C110, C117,C119,C123,C125,C130, | 1uF | CAP CER 1.0UF 10V X5R 0402 | Samsung | CL05A105MP5NNNC | | 402 | |
| 9 | 4 | C12,C14,C30,C55 | 10uF | CAP CER 10UF 6.3V 20% X5R 0603 | TDK | C1608X5R0J106M080AB | | 603 | |
| 10 | 3 | C13,C17,C33 | 22pF | CAP CER 22PF 50V 5% NP0 0402 | Murata | GRM1555C1H220JA01D | | 402 | |
| 11 | 8 | C15,C16,C148,C181,C182, C183,C202,C206 | 22uF | CAP CER 22UF 35V 20% X5R 0805 | Murata | GRM21BR61E226ME44L | | 805 | |
| 12 | 48 | C144,C145,C160,C161,C162, C163,C164,C165,C166,C167, | 0.1uF | CAP CER .1UF 16V X7R 0402 | TDK | C1005X7R1C104K050BC | | 402 | |
| 13 | 7 | C25,C29,C31,C32,C60,C66, C203 | 10uF | CAP CER 10UF 10V 20% X5R 0603 | TDK | C1608X5R1A106M080AC | | 603 | |
| 14 | 4 | C26,C27,C44,C120 | 22uF | CAP CER 22UF 10V 20% X5R 0603 | TDK | C1608X5R1A226M080AC | | 603 | |
| 15 | 3 | C34,C146,C147 | 0.1uF | CAP CER .10UF 25V X5R 0402 | Taiyo Yuden | TMK105BJ104KV-F | | 402 | |
| 16 | 22 | C40,C41,C46,C47,C78,C82, C83,C84,C89,C91,C94,C96, C99,C100,C115,C116,C122, C124,C139,C140,C149,C209 | 4.7uF | CAP CER 4.7UF 6.3V 20% X5R 0402 | TDK | C1005X5R0J475M | | 402 | |
| 17 | 4 | C43,C57,C58,C121 | 22uF | CAP CER 22UF 6.3V 20% X5R 0603 | TDK | C1608X5R0J226M080AC | | 603 | |
| 18 | 2 | C52,C56 | 470pF | CAP CER 470PF 50V 5% NP0 0603 | TDK | C1608NP01H471J080AA | | 603 | |
| 19 | 1 | C63 | 10pF | CAP CER 10PF 50V NP0 0402 | TDK | C1005COG1H100D050BA | | 402 | |
| 20 | 1 | C65 | 1200pF | CAP CER 1200PF 50V 5% NP0 1206 | AVX | 12065A122JAT2A | | 1206 | |
| 21 | 1 | C67 | 4700pF | CAP CER 4700PF 50V 10% X7R 0402 | Murata | GCM155R71H472KA37J | | 402 | |
| 22 | 5 | C68,C69,C180,C194,C195 | 22uF | CAP CER 22UF 35V 20% X5R 1206 | TDK | C3216X5R1V226M160AC | | 1206 | |
| 23 | 6 | C184,C185,C198,C199,C201, C205 | 1uF | CAP CER 1UF 25V 20% X5R 0402 | TDK | C1005X5R1E105M050BC | | 402 | |
| 24 | 2 | C196,C197 | 0.47uF | CAP CER 0.47UF 50V 10% X5R 0402 | Taiyo Yuden | UMK105ABJ474KV-F | | 402 | |
| 25 | 1 | C200 | 10uF | CAP CER 10UF 35V 20% X5R 0805 | TDK | C2012X5R1V106M085AC | | 805 | |
| 26 | 1 | C207 | 0.47uF | CAP CER 0.47UF 50V 10% X5R 0603 | Samsung | CL10A474KBNNNC | | 603 | |
| 27 | 1 | C208 | 2.2uF | CAP CER 2.2UF 6.3V 20% X5R 0402 | TDK | C1005X5R0J225M | | 402 | |
| 28 | 1 | D1 | B560C | DIODE SCHOTTKY 60V 5A SMD | Diodes Inc | B560C-13-F | | SMC | |
| 29 | 1 | D2 | blue | LED INGAN/SIC U-BLUE CLR 1206 SMD | Lumex | SML-LX1206USBC-TR | | 1206 | |
| 30 | 3 | D3,D4,D5 | ESDA18-K | TVS DIODE 15VWM 34VC SOD523 | STMicroelectronics | ESDA18-1K | | SOD523 | |
| 31 | 3 | D6,D7,D8 | green | LED S65NM WTR CLR GREEN 1206 SMD | Lumex | SML-LX1206GC-TR | | 1206 | |
| 32 | 1 | D9 | MBR0540 | SCHOTTKY RECT 40V 0.5A SOD123 | Fairchild Semiconductor | MBR0540 | | SOD123 | |
| 33 | 2 | FB1,FB2 | BLM15PD800SN1D | FERRITE CHIP 80 OHM 1500MA 0402 | Murata | BLM15PD800SN1D | | BLM15P | |
| 34 | 0 | J1 | 5034800400 | CONN FFC FPC 4POS 0.50MM R/A | Molex | 5034800400 | | Molex_5034800400_2GPADS | |
| 35 | 1 | J2 | 5034800400 | CONN FFC FPC 4POS 0.50MM R/A | Molex | 5034800400 | | Molex_5034800400_2GPADS | |
| 36 | 0 | J3 | M20-9990345 | CONN HEADER 3POS .100" SGL GOLD | Harwin | M20-9990345 | | TSW-103-07-G-S | |
| 37 | 3 | J4,J6,J8 | 087438-0643 | CONN HEADER 6POS 1.5MM R/A SMD | Molex | 0874380643 | | Molex_0874380643 | |
| 38 | 1 | J5 | B2B-EH | CONN HEADER EH TOP 2POS 2.5MM | JST | B2B-EH-A(LF)(SN) | | JST_B2B_EH_A | |
| 39 | 1 | J7 | FH28E-40S-0.5SH(05) | CONN FPC 40POS 0.5MM SMD GOLD | Hirose | FH28E-40S-0.5SH(05) | | Hirose_FH28E-40S-0p5SH | |
| 40 | 1 | J9 | QTH-030-02-L-D-A | CONN HEADER HS .5MM 60POS DL AU (stacking ht 8mm) | Samtec | QTH-030-02-L-D-A | | Samtec_QTH-030-xx-x-D-A | |
| 41 | 1 | J10 | QTH-030-03-L-D-A | CONN HEADER HS .5MM 60POS DL AU (stacking ht 11mm) | Samtec | QTH-030-03-L-D-A | | Samtec_QTH-030-xx-x-D-A | |
| 42 | 1 | L1 | 5.6uH | FIXED IND 5.6UH 4.25A 63 MOHM SMD | Bourns | SRP5030T-5R6M | | Bourns_SRP5030T | |
| 43 | 3 | L2,L3,L4 | 2.2uH | INDUCTOR 2.2UH 20% 1300MA 1008 | Murata | LQM2HPN2R2MG0L | | 1008_2p5mm2mm | |
| 44 | 1 | L5 | 2.2uH | INDUCTOR 2.2UH 20% 3.1A | Coilcraft | XFL4020-222MEB | | Coilcraft_XFL4020 | |
| 45 | 3 | L6,L7,L8 | 3.3uH | FIXED IND 3.3UH 4.1A 57.8 MOHM | Vishay/Dale | IHLP2020BZER3R3M11 | | IHLP2020BZER | |
| 46 | 1 | L9 | 2.7uH | INDUCTOR 2.7UH 9.2A 20% SMD | Coilcraft | XAL7030-272MEB | | Coilcraft_XAL7030 | |
| 47 | 1 | L10 | 10uH | INDUCTOR 10UH 20% 0.9A SMD | Coilcraft | LPS4018-103MRB | | Coilcraft_LPS4018_MR | |
| 48 | 1 | RT1 | 100k | THERMISTOR 100K OHM NTC 0402 SMD | Murata | NCP15WF104F03RC | | 402 | |
| 49 | 2 | R1,R16 | 121k | RES SMD 121K OHM 1% 1/10W 0402 | Panasonic | ERJ-2RKF1213X | | 402 | |
| 50 | 2 | R2,R17 | 40.2k | RES 40.2K OHM 1/10W 1% 0402 SMD | Panasonic | ERJ-2RKF4022X | | 402 | |
| 51 | 11 | R3,R8,R15,R18,R34,R44, R53,R70,R101,R113,R115 | 10k | RES SMD 10K OHM 1% 1/10W 0402 | Panasonic | ERJ-2RKF1002X | | 402 | |
| 52 | 2 | R4,R19 | 12k | RES SMD 12K OHM 1% 1/10W 0402 | Panasonic | ERJ-2RKF1202X | | 402 | |
| 53 | 2 | R5,R20 | 5.1k | RES SMD 5.1K OHM 1% 1/10W 0402 | Panasonic | ERJ-2RKF5101X | | 402 | |
| 54 | 2 | R6,R21 | 5.6k | RES SMD 5.6K OHM 1% 1/10W 0402 | Panasonic | ERJ-2RKF5601X | | 402 | |
| 55 | 9 | R7,R13,R22,R27,R42,R43, R78,R80,R94 | 0 | RES 0.0 OHM 1/16W 0402 SMD | Panasonic | ERJ-2GE0R00X | | 402 | |
| 56 | 1 | R9 | 147k | RES 147K OHM 1% 1/10W 0402 SMD | Panasonic | ERJ-2RKF1473X | | 402 | |
| 57 | 1 | R10 | 10.5k | RES SMD 10.5K OHM 1% 1/10W 0402 | Panasonic | ERJ-2RKF1052X | | 402 | |
| 58 | 1 | R11 | 56.2k | RES 56.2K OHM 1% 1/10W 0402 SMD | Panasonic | ERJ-2RKF5622X | | 402 | |
| 59 | 1 | R12 | 93.1k | RES SMD 93.1K OHM 1% 1/16W 0402 | Vishay/Dale | CRCW040293K1FKED | | 402 | |
| 60 | 1 | R14 | 665 | RES 665 OHM 1% 1/8W 0805 SMD | Panasonic | ERJ-6ENF6650V | | 805 | |
| 61 | 1 | R23 | 178k | RES SMD 178K OHM 1% 1/10W 0402 | Panasonic | ERJ-2RKF1783X | | 402 | |
| 62 | 3 | R24,R26,R37 | 180k | RES SMD 180K OHM 1% 1/16W 0402 | Yageo | RC0402FR-07180KL | | 402 | |
| 63 | 1 | R25 | 576k | RES SMD 576K OHM 1% 1/10W 0402 | Panasonic | ERJ-2RKF5763X | | 402 | |
| 64 | 1 | R28 | 30.0k | RES 30.0K OHM 1/10W 1% 0402 SMD | Panasonic | ERJ-2RKF3002X | | 402 | |

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| 65 | 7 | R29,R30,R72,R73,R74,R76, R87 | 100 | RES 100 OHM 1/10W 1% 0402 SMD | Panasonic | ERJ-2RKF1000X | | 402 | |
| 66 | 1 | R31 | 240 | RES SMD 240 OHM 0.1% 1/16W 0402 | Panasonic | ERA-2AEB241X | | 402 | |
| 67 | 8 | R32,R85,R86,R88,R90,R91, R96,R97 | 4.7k | RES 4.7k OHM 1/10W 1% 0402 SMD | Panasonic | ERJ-2RKF4701X | | 402 | |
| 68 | 1 | R33 | 4.42k | RES SMD 4.42k OHM 1% 1/10W 0402 | Panasonic | ERJ-2RKF4421X | | 402 | |
| 69 | 1 | R35 | 240 | RES SMD 240 OHM 1% 1/10W 0402 | Panasonic | ERJ-2RKF2400X | | 402 | |
| 70 | 1 | R36 | 360k | RES SMD 360k OHM 1% 1/10W 0402 | Panasonic | ERJ-2RKF3603X | | 402 | |
| 71 | 9 | R38,R40,R41,R95,R98,R99, R100,R102,R106 | 100k | RES 100k OHM 1/10W 1% 0402 SMD | Vishay/Dale | CRCW0402100KFED | | 402 | |
| 72 | 10 | R39,R45,R46,R48,R49,R50, R51,R52,R56,R67 | 30.1 | RES 30.1 OHM 1/16W 1% 0402 SMD | Panasonic | ERJ-2RKF30R1X | | 402 | |
| 73 | 2 | R47,R68 | 43 | RES 43 OHM 1/20W 5% 0201 SMD | Panasonic | ERJ-1GNJ430C | | 201 | |
| 74 | 2 | R54,R55 | 2k | RES SMD 2K OHM 1% 1/10W 0402 | Panasonic | ERJ-2RKF2001X | | 402 | |
| 75 | 8 | R57,R58,R59,R60,R61,R62, R63,R64 | 20 | RES SMD 20 OHM 1% 1/10W 0402 | Panasonic | ERJ-2RKF20R0X | | 402 | |
| 76 | 1 | R65 | 300 | RES 300 OHM 1/10W 1% 0402 SMD | Panasonic | ERJ-2RKF3000X | | 402 | |
| 77 | 2 | R66,R69 | 10 | RES 10 OHM 1/4W 1% 0603 SMD | Rohm | ESR03EZPF10R0 | | 603 | |
| 78 | 1 | R71 | 3.9 | RES 3.9 OHM 1/2W 5% 1210 SMD | Rohm | ESR25JZPJ3R9 | | 1210 | |
| 79 | 1 | R75 | 0.025 | RES SMD 0.025 OHM 1% 1W 2010 | Stackpole Electronics | CSRN2010FK25L0 | | 2010 | |
| 80 | 6 | R77,R79,R89,R93,R105,R114 | 1k | RES 1.00k OHM 1/10W 1% 0402 SMD | Panasonic | ERJ-2RKF1001X | | 402 | |
| 81 | 2 | R81,R83 | 56k | RES SMD 56k OHM 1% 1/10W 0402 | Panasonic | ERJ-2RKF5602X | | 402 | |
| 82 | 2 | R82,R84 | 47.5k | RES SMD 47.5k OHM 1% 1/10W 0402 | Panasonic | ERJ-2RKF4752X | | 402 | |
| 83 | 2 | R92,R104 | 7.87k | RES 7.87k OHM 1/10W 1% 0402 SMD | Panasonic | ERJ-2RKF7871X | | 402 | |
| 84 | 1 | R103 | 5.1k | RES 5.10k OHM 1/10W 1% 0402 SMD | Panasonic | ERJ-2RKF5101X | | 402 | |
| 85 | 0 | R107,R108,R109,R110,R111, R112 | 100 | RES 100 OHM 1/10W 1% 0402 SMD | Panasonic | ERJ-2RKF1000X | | 402 | |
| 86 | 7 | TPGND1,TPGND2,TPGND3, TPGND4,TPGND5,TPGND6, TPGND7 | TP_BLK | TEST POINT PC MINI. 040inD BLACK | Keystone | 5001 | | KEYSTONE_TP_MINIATURE | |
| 87 | 0 | TP1,TP3,TP4,TP5,TP23, TP39,TP43,TP49,TP51,TP53 | TP_WHT | TEST POINT PC MINI. 040inD WHITE | Keystone | 5002 | | KEYSTONE_TP_MINIATURE | |
| 88 | 2 | U1,U6 | TCA0372DW | IC OPAMP GP 1.4MHZ 16SOIC | ON Semiconductor | TCA0372DWG | | ONSEMI_SOIC16W_DW_CASE751G | |
| 89 | 2 | U2,U7 | DAC081S101CIMK/NOPB | CONV DIA 8BIT MICRO PWR TSOT23-6 | Texas Instruments | DAC081S101CIMK/NOPB | | SOT-23-6 DDC R-PDSO-G6 | |
| 90 | 2 | U3,U8 | SN74AVC4T774PWR | IC BUS TRANSVR 4BIT DL 16TSSOP | Texas Instruments | SN74AVC4T774PWR | | TSSOP16_PW | |
| 91 | 1 | U4 | LP2980-3.3 | IC REG LINEAR 3.3V 50MA SOT23-5 | Texas Instruments | LP2980IM5-3.3/NOPBCT-ND | | SOT23-5_DBV | |
| 92 | 1 | U5 | TPS54340 | IC REG BUCK ADJ 3.5A 8SOPWRPAD | Texas Instruments | TPS54340DDAR | | HSOIC8_DDA_R-PDSO-G8 | |
| 93 | 3 | U9,U10,U13 | TPS62240DDC | IC REG BUCK ADJ 0.3A SYNC TSOT23 | Texas Instruments | TPS62240DDCR | | TSOT-23 DDC R-PDSO-G5 | |
| 94 | 1 | U11 | 25M64Mx16x4banks | IC SDRAM 512MBIT 533MHZ 134VFBGA | Micron | EDB5432BEBH-1DIT-F-D | | Micron-VFBGA-134-10x11p5mm | |
| 95 | 1 | U12 | TPS562209DDCT | IC REG BUCK ADJ 2A SYNC SOT-23-6 | Texas Instruments | TPS562209DDCT | | SOT-23 DDC R-PDSO-G6 | |
| 96 | 1 | U14 | W25Q32JVSSIQ | IC FLASH 32M SPI 133MHZ 8SOIC | Winbond | W25Q32JVSSIQ | | SOIC-8_208mil | |
| 97 | 2 | U15,U22 | 24MHz | OSC MEMS 24.000MHZ CMOS SMD 1.8V-3.3V | Abracon | ASDMMB-24.000MHZ-LC-T | | ECS-2018_2p5mmx2mm | |
| 98 | 1 | U16 | FPGA, PHKp2 XPR, Lattice-ECP5 | IC FPGA 205 I/O 381CABGA | Lattice | LFESU-85F-7B6381CAMK | | Lattice_BG381 | |
| 99 | 1 | U17 | MX25U3235FM23-10G | IC FLASH 32M SPI 104MHZ 8SOIC | Macronix | MX25U3235FM23-10G | | SOIC-8_208mil | |
| 100 | 1 | U18 | SN74AUP1G08DBV | IC GATE AND 1CH 2INP SOT-23-5 | Texas Instruments | SN74AUP1G08DBVT | | SC70_DBV_R-PDSO-G5 | |
| 101 | 1 | U19 | SN74AHC1G09DBVR | IC GATE AND SGL 2INP | Texas Instruments | SN74AHC1G09DBVR | | SC70_DBV_R-PDSO-G5 | |
| 102 | 1 | U20 | DLPC3434 | DLP PICO CONTROLLER DLPC3434 176NFBGA | Texas Instruments | DLPC3434CZVR | | DLPC3434_176NFBGA | |
| 103 | 1 | U21 | TPS22929DDBVT | IC LOAD SWITCH SOT23-6 | Texas Instruments | TPS22929DDBVT | | SOT23-6_DBV_R-PDSO-G6 | |
| 104 | 1 | U23 | DLP3A000 | DLP PMIC, LED Driver IC | Texas Instruments | DLP3A000DPFD | | PAD3000_POFF_100 | |
| 105 | 3 | U24,U25,U26 | SN74AUP1G06DCK | IC INVERTER SINGLE 1INPUT SC705, open drain | Texas Instruments | SN74AUP1G06DCKR | | U_5_DCK | |
| 106 | 1 | PCB | N/A | PCB, DLPC3434 DISPLAY BOARD REFERENCE DESIGN | Any | DLPC3434_DISPLAY_BOARD | | N/A | |

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