

| Item | Qty | Reference                       | Part       | PCBFootprint | Manufacturer | Manufacturer Part Number | Description  |
|------|-----|---------------------------------|------------|--------------|--------------|--------------------------|--|
| 1    | 6   | C1,C35,C39,C42,C45,C46          | 10uF       | cc0805       | Murata       | GRM21BR60J106ME19L       | 10µF ±20% 6.3V X5R Ceramic Capacitor -55°C ~ 85°C Surface Mount, MLCC 0805 (2012 Metric) 0.079" L x 0.049" W (2.00mm x 1.25mm) |
| 2    | 4   | C2,C13,C18,C28                  | 1.0uF      | cc0402       | Murata       | GRM155R61A105KE15D       | 1µF 10V Ceramic Capacitor X5R 0402 (1005 Metric) 0.039" L x 0.020" W (1.00mm x 0.50mm)   |
| 3    | 3   | C3,C5,C7                        | 10000pF    | CC0201       | Murata       | GRM033R61E103KA12D       | 10000pF 25V Ceramic Capacitor X5R 0201 (0603 Metric) 0.024" L x 0.012" W (0.60mm x 0.30mm)                                     |
| 4    | 9   | C4,C6,C8,C9,C60,C59,C58,C57,C56 | 0.1uF      | cc0201       | Murata       | GRM033R61A104KE15D       | 0.10µF 10V Ceramic Capacitor X5R 0201 (0603 Metric) 0.024" L x 0.012" W (0.60mm x 0.30mm)                                      |
| 5    | 0   | C10                             | DNI        | cc0201       |              |                          |  |
| 6    | 2   | C11,C53                         | 1uF        | cc0603       | Murata       | GRM188R61A105KA61D       | 1µF 10V Ceramic Capacitor X5R 0603 (1608 Metric) 0.063" L x 0.031" W (1.60mm x 0.80mm)   |
| 7    | 2   | C12,C17                         | 100uF      | 2413         | Kemet        | T491C107M006AT           | 100µF Molded Tantalum Capacitors 6.3V 2413 (6032 Metric) 900 mOhm 0.236" L x 0.126" W (6.00mm x 3.20mm)                        |
| 8    | 8   | C14,C19,C23,C29,C30,C31,C32,C33 | 0.1uF      | cc0402       | Murata       | GRM155R61A104KA01D       | 0.10µF 10V Ceramic Capacitor X5R 0402 (1005 Metric) 0.039" L x 0.020" W (1.00mm x 0.50mm)                                      |
| 9    | 0   | C15,C16,C20,C21,C34,C41,C52     | DNI        | cc0603       |              |                          |  |
| 10   | 1   | C22                             | 220pF      | cc0402       | Murata       | GRM1555C1H221JA01D       | 200pF 50V Ceramic Capacitor COG, NP0 0402 (1005 Metric) 0.039" L x 0.020" W (1.00mm x 0.50mm)                                  |
| 11   | 1   | C24                             | 18pF       | cc0402       | Murata       | GRM1555C1H180FA01D       | 18pF 50V Ceramic Capacitor COG, NP0 0402 (1005 Metric) 0.039" L x 0.020" W (1.00mm x 0.50mm)                                   |
| 12   | 0   | C25,C26,C44,C48,C55             | DNI        | cc0402       |              |                          |  |
| 13   | 3   | C27,C36,C37                     | 22uF       | cc0805       | Samsung      | CL21A226MQCLQNC          | CAP CER 22UF 6.3V X5R 0805   |
| 14   | 1   | C38                             | 10uF       | cc1210       | Kemet        | C1210C106K9PACTU         | 10µF ±10% 6.3V Ceramic Capacitor X5R 1210 (3225 Metric)  |
| 15   | 1   | C40                             | 1uF        | cc0402       | Murata       | GRM155R61A105KE15D       | CAP CER 1UF 10V X5R 0402   |
| 16   | 2   | C43,C47                         | 10000pF    | CC0402       | MURATA       | GRM155R71H103KA88D       | 10000pF 50V Ceramic Capacitor X7R 0402 (1005 Metric) 0.039" L x 0.020" W (1.00mm x 0.50mm)                                     |
| 17   | 2   | C49,C50                         | 4.7uF      | cc0805       | Murata       | GRM21BR61H475KE51L       | 4.7µF 50V Ceramic Capacitor X5R 0805 (2012 Metric) 0.079" L x 0.049" W (2.00mm x 1.25mm)                                       |
| 18   | 2   | C51,C54                         | 0.1uF      | cc0603       | Yageo        | CC0603ZRY5V9BB104        | CAP CER 0.1UF 50V Y5V 0603   |
| 19   | 0   | C68,C65,C71, C73                | 0.1uF-DNI  | 402          | Murata       | GRM155R61A104KA01D       | 0.10µF 10V Ceramic Capacitor X5R 0402 (1005 Metric) 0.039" L x 0.020" W (1.00mm x 0.50mm)                                      |
| 20   | 0   | C69,C70,C64                     | 0.01uF-DNI | 402          | MURATA       | GRM155R71H103KA88D       | 10000pF 50V Ceramic Capacitor X7R 0402 (1005 Metric) 0.039" L x 0.020" W (1.00mm x 0.50mm)                                     |
| 21   | 0   | C72,C61                         | 22pF-DNI   | 402          | Kemet        | CBR04C220F5GAC           | 22pF 50V Ceramic Capacitor COG, NP0 0402 (1005 Metric) 0.039" L x 0.020" W (1.00mm x 0.50mm)                                   |
| 22   | 0   | C67,C66                         | 33pF-DNI   | 402          | Murata       | GRM1555C1H330JA01D       | 33pF 50V Ceramic Capacitor COG, NP0 0402 (1005 Metric) 0.039" L x 0.020" W (1.00mm x 0.50mm)                                   |
| 23   | 0   | C63                             | 2.2uF-DNI  | 805          | Taiko        | EMK212BJ225KG-T          | 2.2µF 16V Ceramic Capacitor X5R 0805 (2012 Metric) 0.079" L x 0.049" W (2.00mm x 1.25mm)                                       |
| 24   | 0   | C62                             | 1 Uf-dni   | 603          | Murata       | GRM188R61A105KA61D       | 1µF 10V Ceramic Capacitor X5R 0603 (1608 Metric) 0.063" L x 0.031" W (1.60mm x 0.80mm)   |

|    |    |   |                                |                  |                                |                     |  |
|----|----|---|--------------------------------|------------------|--------------------------------|---------------------|--|
| 25 | 1  | D1  | LED Orange 0805                | cc0805           | Lite-On Inc.                   | LTST-C170KFKT       | LED ORANGE CLEAR 0805 SMD  |
| 26 | 1  | D2  | 10V, 3A                        | SOD323           | STMicroelectronics             | BAT60JFILM          | DIODE SCHOTTKY 10V 3A SOD323   |
| 27 | 1  | D3  | LED Green 0805                 | r0805            | OSRAM Opto Semiconductors Inc. | LG R971-KN-1        | LED GREEN DIFFUSED 0805 SMD  |
| 28 | 1  | D4  | B150                           | SMB-B150         | Diodes Incorporated            | B250-13-F           | DIODE SCHOTTKY 50V 2A SMB  |
| 29 | 1  | D5  | FYV0704S                       | SOT23            | Fairchild Semiconductor        | FYV0704SMTF         | DIODE SCHOTTKY 40V 750MA SOT23-3   |
| 30 | 1  | D6  | LED RED 0805                   | r0805            | OSRAM Opto Semiconductors Inc. | LH R974-LP-1        | Red 645nm LED Indication - Discrete 1.8V 0805 (2012 Metric)  |
| 31 | 1  | D7  | LED YLW 0805                   | r0805            | Rohm Semiconductor             | SML-211YTT86        | Yellow 587nm LED Indication - Discrete 1.8V 0805 (2012 Metric)   |
| 32 | 5  | FB1,FB2,FB3,FB4,FB6                                       | 220 @ 100MHZ                   | r0603            | Murata                         | BLM18EG221SN1D      | 220 Ohm Impedance Ferrite Bead 0603 (1608 Metric) Surface Mount 2A 1 Lines 50 mOhm Max DCR - 55°C ~ 125°C    |
| 33 | 0  | FB5   | DNI                            | r1210            |                                |                     |  |
| 34 | 0  | J21   | JUMPER-DNI                     | berg1x2          | Harwin Inc.                    | M20-9990246         | 2 Positions Header, Unshrouded, Breakaway Connector 0.100" (2.54mm) Through Hole Tin                         |
| 35 | 1  | J1  | FX6A-40S-                      | IPEX_20006_40pin | Hirose Electric Co Ltd         | FX6A-40S-0.8SV2(71) | 40 Position Connector Receptacle, Center Strip Contacts Surface Mount Gold                                   |
| 36 | 2  | J2,J5   | I-PEX 20455-040E-12            | ipex_20455_40pin | I-Pex                          | 20455-040E-76       | I-Pex 20455 0.5mm Pitch 40 Way 1 Row Right Angle PCB Mount LVDS Connector, Wire to Board, Solder Termination |
| 37 | 1  | J3  | HEADER 7X2<br>100mil Thru-hole | berg2x7          | Amphenol FCI                   | 67996-114HLF        | 14 Positions Header, Unshrouded Connector 0.100" (2.54mm) Through Hole Gold or Gold, GXT™                    |
| 38 | 2  | J4,J6   | QSH-020-01                     | QSH-020_x        | Samtec                         | QSH-020-01-L-D-DP-A | 40 Position Connector Differential Pair Array, Female Surface Mount Gold                                     |
| 39 | 3  | J7,J8,J11   | HDR2X1 M .1                    | HDR_2x1          | Harwin Inc.                    | M20-9990246         | 2 Positions Header, Unshrouded, Breakaway Connector 0.100" (2.54mm) Through Hole Tin                         |
| 40 | 1  | J10   | Header 5x2 0.1"                | berg2x5          | Amphenol FCI                   | 67997-410HLF        | 10 Positions Header, Unshrouded Connector 0.100" (2.54mm) Through Hole Tin                                   |
| 41 | 1  | J13   | 2.1mm x 5.5mm                  | PJ-202AH         | CUI Inc.                       | PJ-202AH            | CONN PWR JACK 2.0X6.5MM HIGH CUR   |
| 42 | 2  | J14,J17   | HDR2X1 M .1                    | berg1x2          | Harwin Inc.                    | M20-9990246         | 2 Positions Header, Unshrouded, Breakaway Connector 0.100" (2.54mm) Through Hole Tin                         |
| 43 | 5  | J15,J18,J19,J9,J12  | HDR3X1 M .1                    | berg1x3          | Harwin Inc.                    | M22-2510305         | 3 Positions Header, Unshrouded, Breakaway Connector 0.079" (2.00mm) Through Hole Gold                        |
| 44 | 1  | J16   | HEADER 1x10                    | berg1x10         | 3M                             | 951110-8622-AR      | 10 Positions Header, Unshrouded Connector 0.079" (2.00mm) Through Hole Gold                                  |
| 45 | 1  | J20   | USB2 Micro AB-DNI              | usb2_microAB_rev | HIROSE(HRS)                    | ZX62R-B-5P(30)      | Micro B - Reverse (Top mount) Shell SMT  |
| 46 | 7  | LP1,LP2,LP3,LP4,LP5,LP6,LP7                               | LP                             | TESTLOOP         | Keystone Electronics           | 5011                | Test Points  |
| 47 | 1  | L1  | 10uH                           | IND_CDPH4D19F    | Sumida America Components Inc. | CDPH4D19FNP-100MC   | INDUCTOR 10UH 0.8A SHIELD SMD  |
| 48 | 1  | Q1  | Si8409DB                       | MFP_4            | Vishay Siliconix               | Si8409DB-T1-E1      | MOSFET P-CH 30V 4.6A 2X2 4-MFP   |
| 49 | 13 | R1,R28,R29,R50,R52,R63,R71,R75,R76,R80,R88,R104,R106      | 0                              | r0402            | Yageo                          | RC0402JR-070RL      | RES SMD 0.00HM JUMPER 1/16W 0402   |
| 50 | 1  | R2  | 348                            | r0402            | Yageo                          | RC0402FR-07348RL    | RES SMD 348 OHM 1% 1/16W 0402  |
| 51 | 15 | R3,R4,R54,R55,R56,R57,R58,R59,R60,R61,R77,R78,R79,R86,R87 | 4.7K                           | r0402            | Yageo                          | RC0402JR-074K7L     | RES SMD 4.7K OHM 5% 1/16W 0402   |
| 52 | 5  | R5,R72,R73,R74,R103                                       | 10K                            | r0402            | Yageo                          | RC0402JR-0710KL     | RES SMD 10K OHM 5% 1/16W 0402  |

|    |    |   |                  |                         |                                 |                  |   |
|----|----|---|------------------|-------------------------|---------------------------------|------------------|---|
| 53 | 31 | R6,R7,R8,R9,R10,R11,R12,R13,R14,R15,R17,R18,R19,R20,R21,R22,R23,R24,R25,R26,R39,R40,R41,R42,R43,R44,R45,R46,R47,R48,R70 | 0                | r0201                   | Panasonic Electronic Components | ERJ-1GN0R00C     | RES SMD 0.00HM JUMPER 1/20W 0201  |
| 54 | 0  | R16,R27,R49,R51,R62,R64,R65,R66,R100,R107,R105  | DNI              | r0402                   |                                 |                  |   |
| 55 | 1  | R53   | 1K               | r0402                   | Yageo                           | RC0402JR-071KL   | RES SMD 1K OHM 5% 1/16W 0402  |
| 56 | 3  | R67,R68,R69   | 18               | r0402                   | Yageo                           | RC0402JR-0718RL  | RES SMD 18 OHM 5% 1/16W 0402  |
| 57 | 1  | R81   | 500              | r0402                   | Vishay Dale                     | PNM0402E5000BST1 | RES SMD 500 OHM 0.1% 1/20W 0402   |
| 58 | 2  | R82,R89   | 3.57K            | r0402                   | Yageo                           | RC0402FR-073K57L | RES SMD 3.57K OHM 1% 1/16W 0402   |
| 59 | 1  | R83   | 37.4K            | r0402                   | Yageo                           | RC0402FR-0737K4L | RES SMD 37.4K OHM 1% 1/16W 0402   |
| 60 | 1  | R84   | 1.15K            | r0402                   | Yageo                           | RC0402FR-071K15L | RES SMD 1.15K OHM 1% 1/16W 0402   |
| 61 | 1  | R85   | 13K              | r0402                   | Yageo                           | RC0402FR-0713KL  | RES SMD 13K OHM 1% 1/16W 0402   |
| 62 | 1  | R90   | 2.87K            | r0402                   | Yageo                           | RC0402FR-072K87L | RES SMD 2.87K OHM 1% 1/16W 0402   |
| 63 | 1  | R91   | 100K             | r0402                   | Yageo                           | RC0402FR-07100KL | RES SMD 100K OHM 1% 1/16W 0402  |
| 64 | 1  | R92   | 51               | r0402                   | Yageo                           | RC0402JR-0751RL  | RES SMD 51 OHM 5% 1/16W 0402  |
| 65 | 1  | R93   | 62K              | r0402                   | Yageo                           | RC0402JR-0762KL  | RES SMD 62K OHM 5% 1/16W 0402   |
| 66 | 0  | R94,R95,R96,R97,R98,R99   | DNI              | r0603                   |                                 |                  |   |
| 67 | 1  | R101  | 348              | r0402                   | Yageo                           | RC0402FR-07348RL | RES SMD 348 OHM 1% 1/16W 0402   |
| 68 | 1  | R102  | 150              | r0402                   | Yageo                           | ERJ-2RKF1500X    | RES SMD 150 OHM 1% 1/10W 0402   |
| 69 | 0  | R111, R31   | 33-DNI           | 201                     | Yageo                           | RC0201JR-0733RL  | RES SMD 33 OHM 5% 1/20W 0201  |
| 70 | 0  | R30, R110, R37,R36  | 1K-DNI           | 402                     | Yageo                           | RC0402JR-071KL   | RES SMD 1K OHM 5% 1/16W 0402  |
| 71 | 0  | R109, R108  | DNI              | 402                     |                                 |                  | Resistor  |
| 72 | 0  | R38   | 1.5K-DNI         | 402                     | Panasonic                       | ERJ-2RKF1501X    | RES SMD 1.5K OHM 1% 1/10W 0402  |
| 73 | 0  | R35, R32  | 10K-DNI          | 402                     | Yageo                           | RC0402JR-0710KL  | RES SMD 10K OHM 5% 1/16W 0402   |
| 74 | 0  | R34   | 0-DNI            | 402                     | Yageo                           | RC0402JR-070RL   | RES SMD 0.00HM JUMPER 1/16W 0402  |
| 75 | 0  | R33   | 15K-DNI          | 402                     | Panasonic                       | ERJ-2RKF1502X    | RES SMD 15K OHM 1% 1/10W 0402   |
| 76 | 1  | SW1   | PB_SWITCH        | SW_MOM_2NO              | Omron Electronics Inc-EMC Div   | B3SN-3012P       | Tactile Switch SPST-NO Top Actuated Surface Mount                             |
| 77 | 1  | SW2   | 8-POS 50-MIL SMT | TDA08H0SK1              | C&K Components                  | TDA08H0SB1R      | Dip Switch SPST 8 Position Surface Mount Slide (Standard) Actuator 25mA 24VDC |
| 78 | 1  | SW3   | TS01CQE          | TS01CQE                 | C&K Components                  | TS01CQE          | Slide Switch SPDT Through Hole  |
| 79 | 4  | TP1,TP4,TP5,TP3   | T POINT S        | berg1x1                 | Amphenol FCI                    | 68000-401HLF     | 1 Positions Header, Unshrouded Connector Through Hole Tin                     |
| 80 | 1  | U1  | SN65DSI85        | ironwood_64pin_qfe_7001 | Texas Instruments               | SN65DSI85TPAPRQ1 | Dual-Channel MIPI® DSI to Dual-Link FlatLink™ LVDS Bridge                     |
| 81 | 1  | U2  | SN74LVC1G07DCK   | DCK5                    | Texas Instruments               | SN74LVC1G07DCKT  | Single Buffer/Driver With Open-Drain Output                                   |
| 82 | 1  | U3  | TPS3808          | dbv_r-pdso-g6           | Texas Instruments               | TPS3808G18DBVT   | Low Quiescent Current Supervisor Circuit (SOT23- 6Pin)                        |
| 83 | 1  | U4  | SN74LVC1G08DCK   | DCK5                    | Texas Instruments               | SN74LVC1G08DCKT  | Single 2-Input Positive-AND Gate  |
| 84 | 1  | U5  | CDCEL913PW       | PW14                    | Texas Instruments               | CDCEL913PW       | Programmable 1-PLL VCXO Clock Synthesizer with 1.8-V LVCMOS Outputs           |

|    |   |   |                     |                          |                      |                         |  |
|----|---|---|---------------------|--------------------------|----------------------|-------------------------|--|
| 85 | 1 | U6  | txs0102dcut         | DCU8                     | Texas Instruments    | TXS0102DCUT             | 2-Bit Bidirectional Voltage-Level Shifter for Open-Drain and Push-Pull Application     |
| 86 | 1 | U7  | REG104-A            | DCQ_R-PDSO-G6            | Texas Instruments    | REG104GA-A              | 1A, Low-Noise, Low Dropout Regulator   |
| 87 | 2 | U8,U9   | TPS74201RGWT        | RGW20                    | Texas Instruments    | TPS74201RGWT            | Single Output LDO, 1.5A, Adj.(0.8 to 3.3V), Any or No Cap, Programmable Soft Start     |
| 88 | 1 | U10   | TPS61181A-QFN16     | rte_16pin                | Texas Instruments    | TPS61181ARTET           | IC LED DVR 6STRING NOTEBK 16WQFN   |
| 89 | 0 | U13   | TPD2E001-DNI        | DRL_PSDO_5               | Texas Instruments    | TPD2E001DRLR            | Low-Capacitance 2-Channel +/-15kV ESD Protection Array for High-Speed Data Interfaces  |
| 90 | 0 | U12   | TUSB3410-DNI        | PQFP_32_7P2X7P<br>2_P8MM | Texas Instruments    | TUSB3410IVF             | USB to Serial Bridge   |
| 91 | 0 | U11   | 24LC256-DNI         | soic_8_197x157_50        | ON Semiconductor     | CAT24C256W              | IC EEPROM 256KBIT 400KHZ 8SOIC   |
| 92 | 0 | XC1,XC2,XC3,XC4,XC5,XC6,XC7,XC8,XC9,XC11,XC12,XC13,XC10 | XC-DNI              | jmp_2p                   |                      |                         |  |
| 93 | 1 | Y1  | 27MHZ_crystal       | ABM8                     | Abracon LLC          | ABM8-27.000MHZ-10-1-U-T | 27MHz ±10ppm Crystal 10pF 50 Ohm -10°C ~ 60°C Surface Mount 4-SMD, No Lead (DFN, LCC)  |
| 94 | 0 | Y2  | 12 MHz-DNI          | XTAL_4_SM_126X98         | ECS Inc.             | ECS-120-20-33-TR        | 12MHz ±50ppm Crystal 20pF 100 Ohm -20°C ~ 70°C Surface Mount 4-SMD, No Lead (DFN, LCC) |
| 95 | 4 | standoff  | Round Threaded 0.5" |                          | Keystone Electronics | 2204                    | ROUND SPACER #4 NYLON 1/2"   |
| 96 | 4 | screws  | Round 4-40/0.25"    |                          | Building Fasteners   | PMSSS 440 0025 PH       | PMSSS 440 0025 PH  |
| 97 | 1 | PCB   |                     | ANY                      | INT062               |                         | PCB board  |
| 98 | 1 | LB1   | White sticker       | ANY                      | Brady                | THT-14-423-10           | Sticker text: SN65DSI85Q1-EVM INT062-001 Rev A   |

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