

| Item | Quantity | Reference | Part | Footprint | Part Description | Power | Tolerance | Voltage | Manufacturer |
|------|----------|--|------------------|------------------------|---------------------------------|-------|-----------|---------|-----------------------|
| 1 | 27 | C2,C4,C6,C7,C8,C9,C11, C12,C14,C15,C52,C53,C54, C55,C56,C57,C59,C60,C89, C90,C92,C93,C94,C103, C104,C107,C108 | 0.1uF | SMD0603-A-1 | CAP, SMD, Ceramic, 0603 | | 20% | 16V | |
| 2 | 1 | C3 | 10uF | SMD07343 | | | | | |
| 3 | 4 | C28,C29,C30,C31 | 33U-7343 | SMD07343 | C/C/ SMD, Tan, 7343 | | 20% | 25V | |
| 4 | 2 | C33,C35 | 33PF | SMD0805-A-1 | CAP, SMD, Ceramic, 0805 | | 10% | 50V | |
| 5 | 1 | C40 | 33uF | SMD3528-B-1 | | | | | |
| 6 | 1 | C41 | 68uF | SMD3528-B-1 | | | | | |
| 7 | 2 | C87,C88 | 1500pF | SMD1808-A-1 | CAP, SMD, Ceramic, 1808 | | 10% | 2KV | |
| 8 | 1 | C91 | 10uF | SMD3528-B-1 | CAP, SMD, Tant, 3528 | | 10% | 16V | |
| 9 | 4 | C105,C106,C109,C110 | 0.001uF | SMD0603-A-1 | CAP, SMD, Ceramic, 0603 | | 20% | 16V | |
| 10 | 3 | C111,C112,C113 | 100nF | SMD0603-A1 | | | | | |
| 11 | 1 | C114 | 10uF | SMD3528-B-1 | | | | | |
| 12 | 6 | D2,D3,D4,D5,D6,D7 | Bicolor-LEDs | 7011X5/7 | Digikey L61057CT_ND | | | | |
| 13 | 2 | D9,D8 | Ultra Bright Red | Panasonic LNJ211R82RA | | | | | |
| 14 | 1 | D10 | LTM673 | OSRAM LTM673 | Hyper-Bright LED | | | | OSRAM/LTM673-R1S2-35 |
| 15 | 1 | J1 | HDR-3X3 | HDR-3X3 | | | | | |
| 16 | 1 | J2 | CON2x5_TH | cn-hdr2x5 | | | | | |
| 17 | 17 | J4,J23,J36,J37,J40,J41, J48,J49,J50,J51,J52,J55, J56,J57,J58,J90,J92 | HDR-1X2 | CN-HDR1X2 | | | | | |
| 18 | 2 | J13,J7 | HDR-2X20 | CN-MII-40P-RA-M | | | | | |
| 19 | 2 | J8,J10 | HDR-1X3 | CN-HDR1X3 | | | | | |
| 20 | 2 | J9,J14 | CON-MII-MALE | CN-MII-40P-RA-M | | | | | |
| 21 | 1 | J26 | HDR2X2 | CN-HDR2X2 | | | | | |
| 22 | 6 | J42,J43,J44,J45,J46,J47 | HDR_1X3 | CN-HDR1X3 | | | | | |
| 23 | 2 | J84,J85 | CON-RJ45 | CN-PHONE8P8C-RA-SHLD | RJ-45 Connector | | | | |
| 24 | 1 | J89 | HFBR-5803 | HFBR-5803 SC Connector | | | | | |
| 25 | 1 | J91 | POE Connector | Sullins PPPC071LGBN | | | | | |
| 26 | 1 | J93 | HDR2X5 | CN-HDR2X5 | | | | | |
| 27 | 2 | L1,L2 | 1uH | Murata LQM21N Series | LQM21NN1R0K10D Ferrite Inductor | | | | Murata LQM21NN1R0K10D |
| 28 | 1 | R1 | 1.5K | SMD805-A-1 | RES, SMD, 0805 | 1/10W | 1% | | |
| 29 | 1 | R20 | 4.87K 1% | SMD0603-A-1 | RES, SMD, 0603 | 1/16W | 1% | | |
| 30 | 10 | R43,R44,R45,R46,R47,R50, R51,R52,R53,R54 | | 33 SMD0603-A-1 | RES, SMD, 0603 | 1/16W | 5% | | |
| 31 | 7 | R56,R92,R96,R101,R110, R112,R128 | Open | SMD0603-A-1 | RES, SMD, 0603 | 1/16W | 5% | | |
| 32 | 1 | R63 | 10K | SMD0603-A-1 | | | | | |
| 33 | 25 | R86,R87,R88,R93,R94,R95, R97,R98,R103,R104,R105, R106,R111,R113,R117,R118, R119,R120,R125,R126,R127, R129,R133,R134,R149 | 2.2K | SMD0603-A-1 | RES, SMD, 0603 | 1/16W | 5% | | |
| 34 | 13 | R89,R91,R99,R102,R107, R109,R114,R116,R122,R124, R130,R132,R236 | | 165 SMD0603-A-1 | RES, SMD, 0603 | 1/16W | 1% | | |
| 35 | 8 | R135,R136,R137,R138,R143, R144,R145,R146 | | 49.9 SMD0603-A-1 | RES, SMD, 0603 | 1/16W | 1% | | |
| 36 | 8 | R157,R158,R159,R160,R161, R162,R163,R164 | | 75 SMD0603-A-1 | RES, SMD, 0603 | 1/16W | 1% | | |
| 37 | 2 | R166,R165 | | 50 SMD0603-A-1 | RES, SMD, 0603 | 1/16W | 1% | | |
| 38 | 5 | R167,R168,R171,R172,R217 | | 130 SMD0603-A-1 | RES, SMD, 0603 | 1/16W | 1% | | |
| 39 | 12 | R169,R170,R181,R182,R185, R186,R226,R227,R228,R229, R237,R238 | Open | SMD0603-A-1 | RES, SMD, 0603 | 1/16W | 1% | | |
| 40 | 9 | R173,R174,R175,R176,R177, R178,R179,R180,R239 | | 0 SMD0603-A-1 | RES, SMD, 0603 | 1/16W | 1% | | |

| | | | | | | | | | |
|----|----|--|-----------------------|------|-------------------|----------------------------------|-------|----|-------------------|
| 41 | 5 | R183,R184,R187,R188,R218 | | 80 | SMD0603-A-1 | RES, SMD, 0603 | 1/16W | 1% | |
| 42 | 2 | R223,R224 | | 22 | SMD0603-A-1 | RES, SMD, 0603 | 1/16W | 5% | |
| 43 | 1 | R225 | | 10 | SMD0603-A-1 | RES, SMD, 0603 | 1/16W | 5% | |
| 44 | 1 | R231 | | 100 | SMD0603-A-1 | | | | |
| 45 | 1 | R232 | | 1200 | SMD0603-A-1 | | | | |
| 46 | 1 | R233 | | 33 | SMD0603-A-1 | | | | |
| 47 | 2 | R234,R235 | | 210 | SMD0603-A-1 | RES, SMD, 0603 | 1/16W | 5% | |
| 48 | 2 | T1,T2 | H2019 (POE) | | Pulse H1102/H2019 | Magnetic | | | Pulse/H1102/H2019 |
| 49 | 1 | U1 | DP83849 | | VHB80A | | | | |
| 50 | 1 | U3 | LP3964 - 3.3V - 800mA | | SOT223-5 | Voltage Regulator 5V-3.3V | | | NSC/LP3964EMP-3.3 |
| 51 | 3 | U4,U5,U6 | NC7SZ126 | | SOT23-5 | | | | |
| 52 | 1 | X1 | 50 MHz | | OSC14-4P | 50 MHz Oscillator (50 ppm), 3.3V | | | |
| 53 | 1 | Y1 | XTAL - 25M | | HC49-US | Crystal, 25.000M | | | |
| 54 | 14 | J1 : 2-3, 5-6, 8-9 ; J8 MII_5V J23 MII_3V3; J92 MII_3V3 J10 : MII_VDD_B J41; J42 HI; J43 HI; J44 HI J45 HI; J46 HI; J47 HI | | | | | | | Jumper setting |

MII with Copper Configuration - Do Not Stuff Components

X1
R223, R224, R225,
J90
R174, R175, R178, R179, [R239](#)
J89

MII with Fiber Configuration - Do Not Stuff Components

X1
R223, R224, R225,
J90
R173, R176, R177, R180

RMII with Copper Configuration - Do Not Stuff Components

Y1
C33, C35
J90
R174, R175, R178, R179, [R239](#)
J89

RMII with Fiber Configuration - Do Not Stuff Components

Y1
C33, C35
J90
R173, R176, R177, R180