

RAMAN RESEARCH INSTITUTE

Bill Of Materials July 11,2008 16:08:14

| Item | Quantity | Reference | Part | PCB Footprint |
|------|----------|---|----------------------------|-----------------------------------|
| 1 | 9 | C1,C5,C9,C14,C38,C42,C119,C121,C131 | 1uF | SM/C_0603 |
| 2 | 12 | C2,C3,C6,C7,C10,C11,C15,C16,C39,C43,C124,C132 | 0.1uF | SM/C_0603 |
| 3 | 7 | C4,C8,C12,C17,C41,C45,C133 | 0.001uF | SM/C_0603 |
| 4 | 25 | C13,C80,C81,C82,C83,C84,C85,C86,C87,C88,C89,C90,C91,C98,C99,C105,C106,C107,C108,C109,C110,C111,C112,C113,C114 | 0.22uF | SM/C_0402 |
| 5 | 2 | C18,C31 | 470uF | ELECTRO_CAP |
| 6 | 1 | C19 | TPSD107M010R01 25 100uF | SM/CT_7343_12 |
| 7 | 14 | C20,C21,C22,C23,C24,C26,C27,C28,C29,C33,C34,C35,C36,C37 | 47uF | SM/C_1210M |
| 8 | 4 | C25,C30,C32,C136 | 100uF | SM/CT_7343_12 |
| 9 | 14 | C40,C44,C92,C93,C94,C95,C96,C97,C101,C102,C125,C126,C129,C130 | 4.7uF | SM/C_1210M |
| 10 | 1 | C46 | 330uF | SM/CT_VCASE_7343 |
| 11 | 15 | C47,C48,C49,C50,C51,C59,C71,C72,C73,C74,C75,C76,C77,C78,C79 | 2.2uF | SM/C_0805 |
| 12 | 8 | C52,C53,C54,C55,C56,C57,C58,C61 | .22uF | SM/C_0402 |
| 13 | 1 | C60 | 33uF | SM/CT_BCASE |
| 14 | 9 | C62,C63,C64,C65,C66,C67,C68,C69,C70 | 47uF | SM/CT_BCASE |
| 15 | 1 | C100 | 120pF | SM/C_1206 |
| 16 | 20 | C103,C104,C115,C116,C117,C118,C127,C128,C135,C137,C138,C139,C140,C141,C142,C143,C144,C145,C148,C149 | 0.01uF | SM/C_0402 |
| 17 | 3 | C120,C122,C123 | 10nF | SM/C_0603 |
| 18 | 1 | C134 | <1000pF | SM/C_0603 |
| 19 | 23 | D1,D2,D3,D4,D5,D6,D7,D8,D9,D10,D11,D12,D13,D14,D15,D16,D17,D18,D19,D20,D21,D23,D24 | LED | SM/R_0805 |
| 20 | 1 | D22 | DIODE | DIODE1 |
| 21 | 4 | F1,F2,F3,F4 | FTRJ1421SMCL | SFF_TRANCEIVER |
| 22 | 1 | J1 | CONN SOCKET 4x2 | CAT5 |
| 23 | 2 | J2,J3 | RJ45_4PORT | CAT5_4P |
| 24 | 19 | J4,J5,J6,J10,J34,J43,J44,J45,J46,J47,J48,J49,J50,J51,J52,J53,J54,J55,J56 | SMA | RF/SMA/V |
| 25 | 4 | J7,J21,J38B,J38A | HEADER 2 | 2HEADER/2MM |
| 26 | 5 | J8,J9,J13,J20,J22 | header7X2 | 14X2HEADER/2MM |
| 27 | 1 | J11 | HEADER 3X2 | BLKCON.100/VH/TM2OE/W. 200/6 |
| 28 | 1 | J12 | HEADER 10 | BLKCON.100/VH/TM1SQS/ W.100/10 |

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| 29 | 6 | J14,J15,J16,J17,J18,J19 | HEADER 12X2 | BLKCON.100/VH/TM2OE/W. 200/24 |
| 30 | 1 | J22B | HEADER 6 | |
| 31 | 1 | J23 | HEADER 3 | 3HEADER/2MM |
| 32 | 4 | J24,J25,J26,J32 | header3 | 3HEADER/2MM |
| 33 | 4 | J27,J28,J29,J33 | header4 | 4HEADER/2MM |
| 34 | 2 | J30,J31 | HEADER 4X2 | 4X2HEADER/2MM |
| 35 | 2 | J35,J36 | Erni ZD-40pairs | ERNI-40pairs |
| 36 | 2 | J37B,J37A | ERNI-POWER TAP | |
| 37 | 4 | J39D,J39C,J39B,J39A | ERNIPRESS | POWER TAP |
| 38 | 1 | L7 | MPZ1608S221A | SM/R_0805 |
| 39 | 24 | L12,L13,L14,L15,L19,L20,L21,L23,L24,L25,L26,L27,L32,L33,L34,L35,L38,L39,L40,L42,L43,L44,L46,L47 | ferrite-220 | SM/R_0805 |
| 40 | 6 | L28,L29,L30,L31,L36,L45 | ferrite-220 | SM/C_0603 |
| 41 | 10 | R1,R5b,R6b,R7b,R8b,R9b,R10b,R17b,R19b,R19b1 | 0E | SM/R_0805 |
| 42 | 1 | R2 | 2.08K 1% | SM/R_0805 |
| 43 | 1 | R3 | 30.9K 1% | SM/R_0805 |
| 44 | 1 | R4 | 2.21K | SM/R_0805 |
| 45 | 3 | R5,R7,R9 | 2.49K 1% | SM/R_0805 |
| 46 | 3 | R6,R8,R10 | 4.99K 1% | SM/R_0805 |
| 47 | 1 | R11b | 30.1E | SM/R_0805 |
| 48 | 1 | R11 | 1.1K 1% | SM/R_0805 |
| 49 | 23 | R12,R44,R45,R46,R47,R48,R49,R50,R51,R52,R55,R57,R60,R61,R62,R63,R64,R65,R66,R67,R68,R76,R78 | 330E | SM/R_0805 |
| 50 | 1 | R13 | 30E | SM/R_0805 |
| 51 | 1 | R14 | 2.05K 1% | SM/R_0805 |
| 52 | 1 | R15b | 210E | SM/R_0805 |
| 53 | 1 | R15 | 4.32K 1% | SM/R_0805 |
| 54 | 3 | R16,R18,R20 | 3.32K 1% | SM/R_0805 |
| 55 | 3 | R16b,R18b,R18b1 | 249E | SM/R_0805 |
| 56 | 3 | R17,R19,R22 | 1.15K 1% | SM/R_0805 |
| 57 | 1 | R21 | 49.9E 1% | SM/R_0805 |
| 58 | 8 | R23,R24,R25,R77,R91D,R91C,R91B,R91A | 1M | SM/R_0805 |
| 59 | 19 | R26,R27,R28,R29,R30,R32,R33,R34,R35,R36,R37,R38,R39,R40,R41,R71,R72,R73,R74 | 4.7K | SM/R_0805 |
| 60 | 2 | R31,R75 | 330K | SM/R_0805 |
| 61 | 1 | R42 | 120E | SM/R_0805 |
| 62 | 1 | R43 | 180E | SM/R_0805 |
| 63 | 4 | R53,R54,R56,R79 | 200E | SM/R_0805 |
| 64 | 2 | R58,R59 | 1K | SM/R_0805 |
| 65 | 2 | R69,R70 | <1.5K | SM/R_0805 |
| 66 | 1 | R80 | 27E | SM/R_0805 |
| 67 | 10 | R81,R82,R83,R84,R85,R86,R87,R88,R89,R90 | 100E | SM/R_0402 |
| 68 | 5 | U1,U2,U4,U8,U9 | TPS74401KTWT DDPAK | DDPAK-7LEAD |
| 69 | 2 | U3,U14 | TPS74201KTWT DDPAK | DDPAK-7LEAD |
| 70 | 2 | U5,U7 | PTH05010W | PTH05010 |
| 71 | 1 | U6 | PTH05050W | PTH05050 |
| 72 | 1 | U10 | V5LXT50-FF665 | V5-FF665 |

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|----|---|-----|-----------------------|-------------------------|
| 73 | 1 | U11 | SCAN90CP02-LLP28 | LLP-28PIN |
| 74 | 1 | U12 | DS90LV047 DIFF DRIVER | SOG.050/16/WG.244/L.425 |
| 75 | 1 | U13 | TMP401 | MSOP8 |
| 76 | 1 | X1 | OSC-K50H | OSC_K50 |