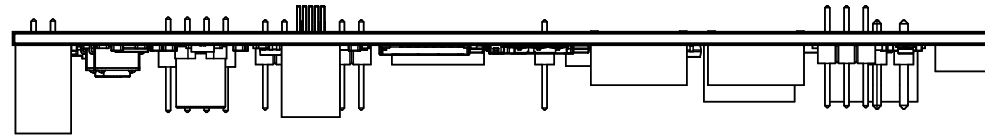
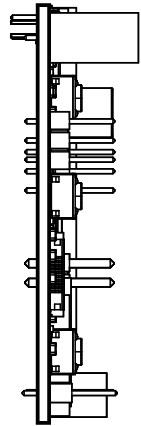


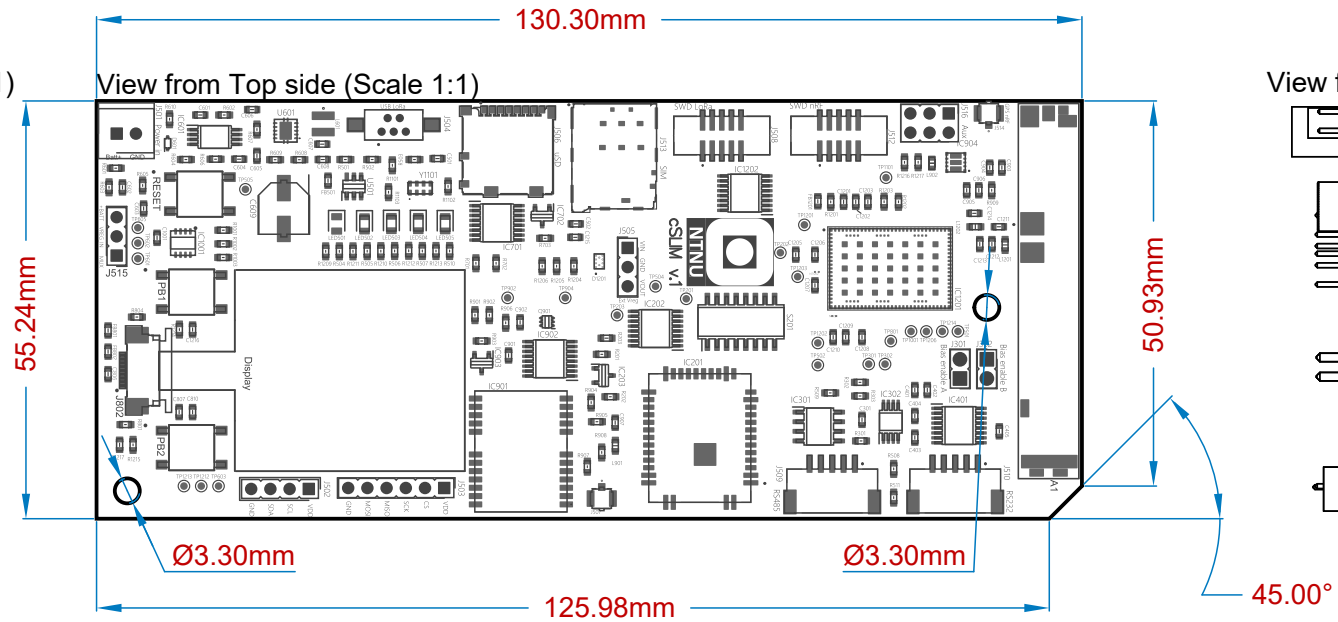
View from Back side (Scale 1:1)



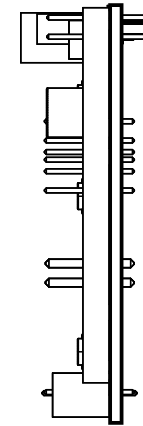
View from Left side (Scale 1:1)



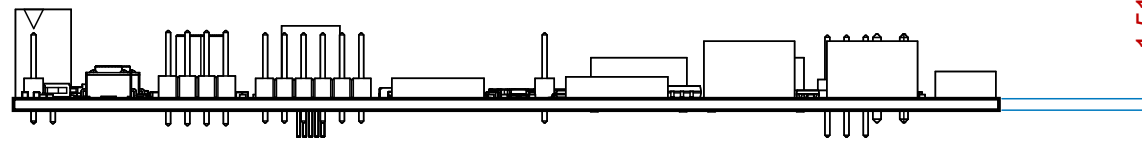
View from Top side (Scale 1:1)



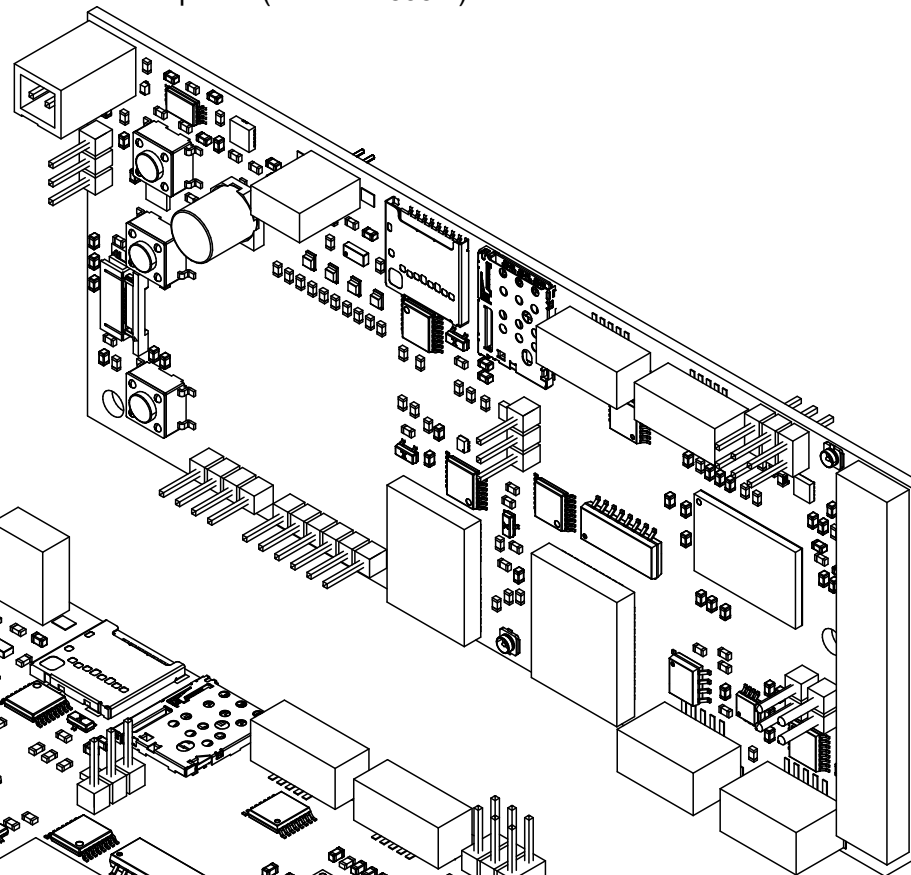
View from Right side (Scale 1:1)



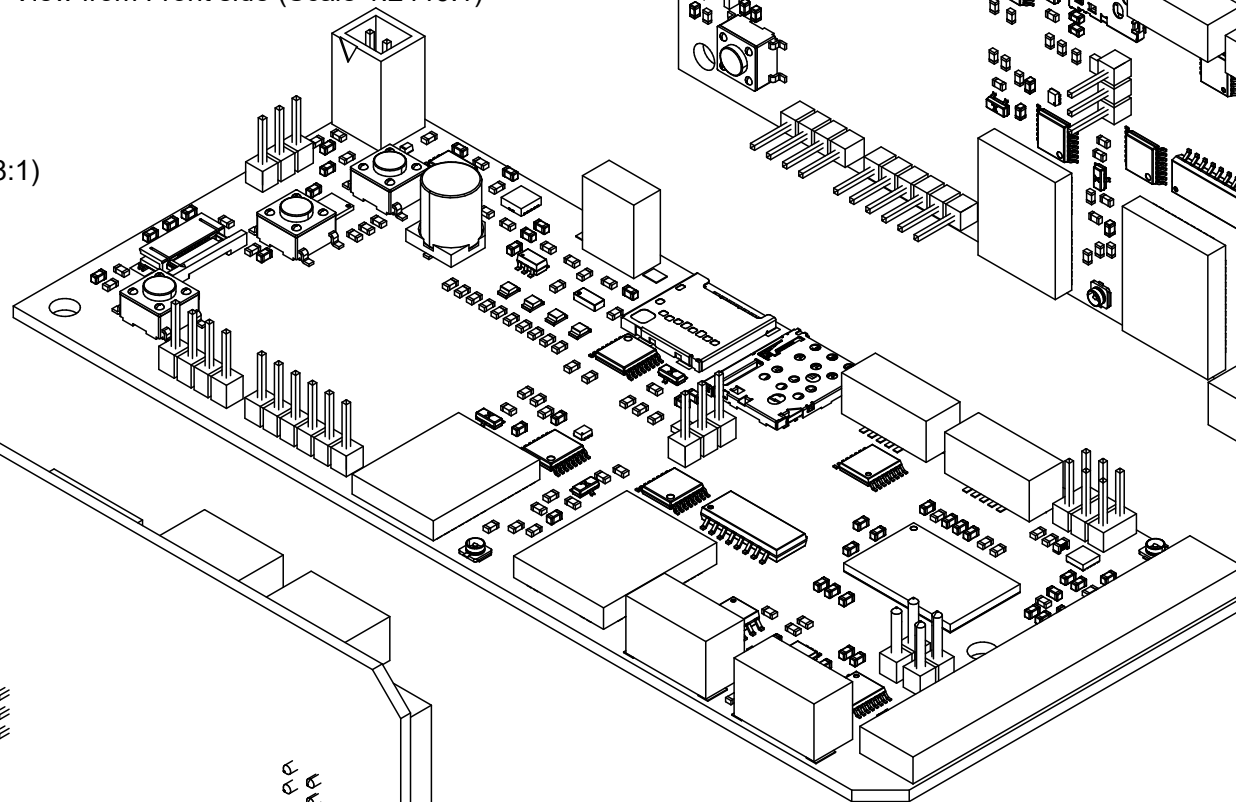
View from Front side (Scale 1:1)



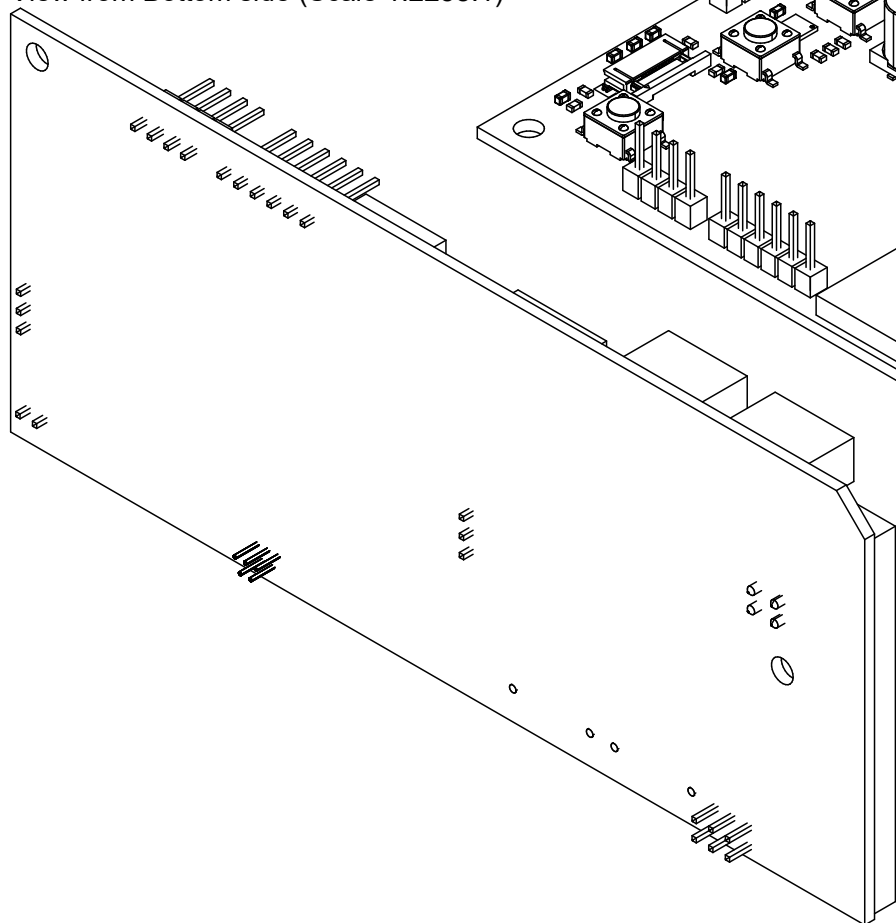
View from Top side (Scale 1.1838:1)



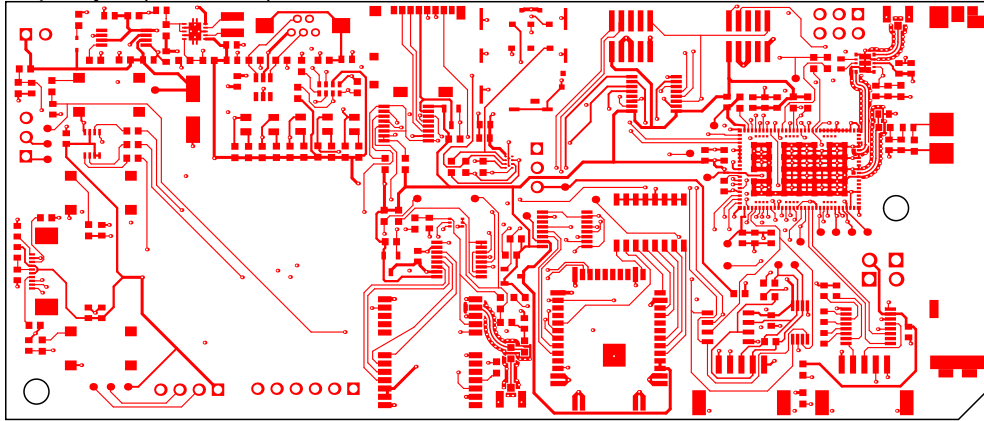
View from Front side (Scale 1.2446:1)



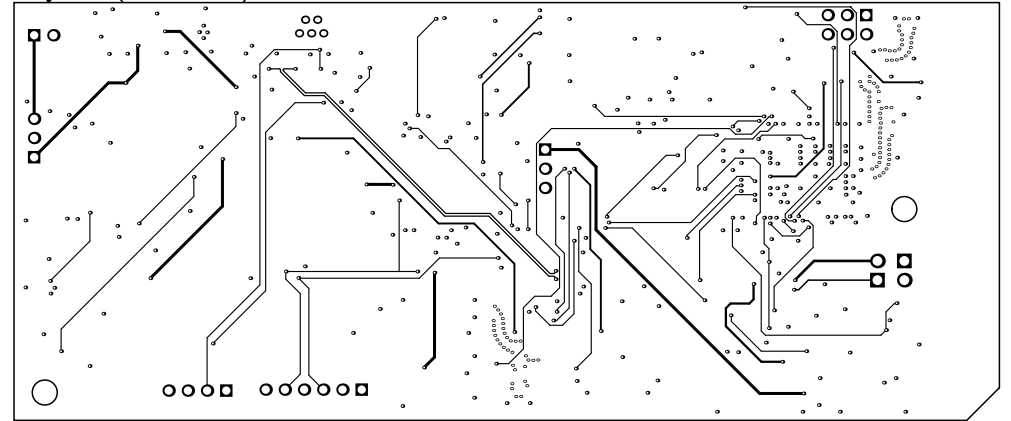
View from Bottom side (Scale 1.2258:1)



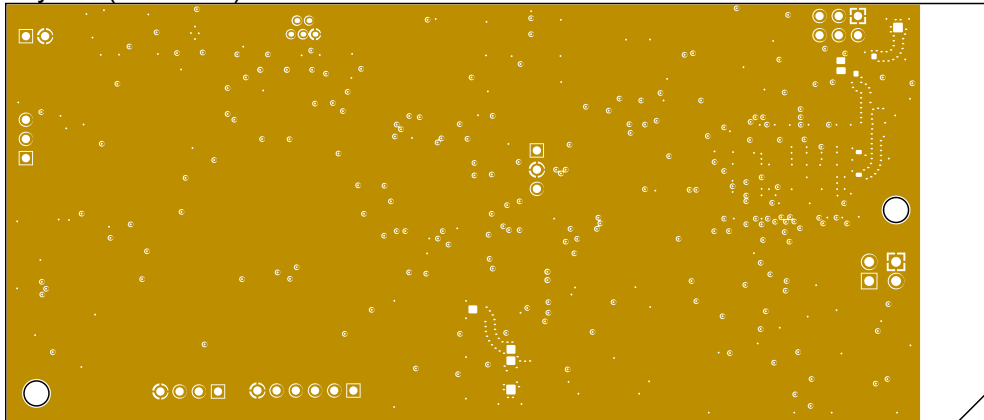
Top Layer (Scale 1:1)



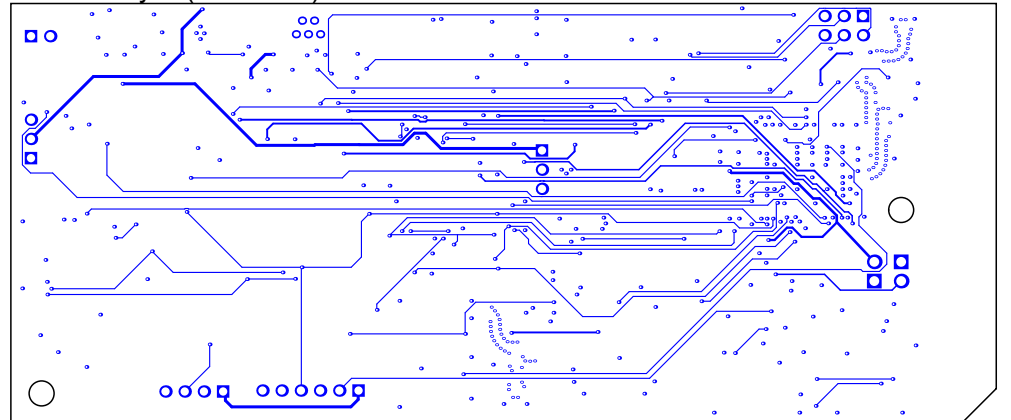
Layer 3 (Scale 1:1)



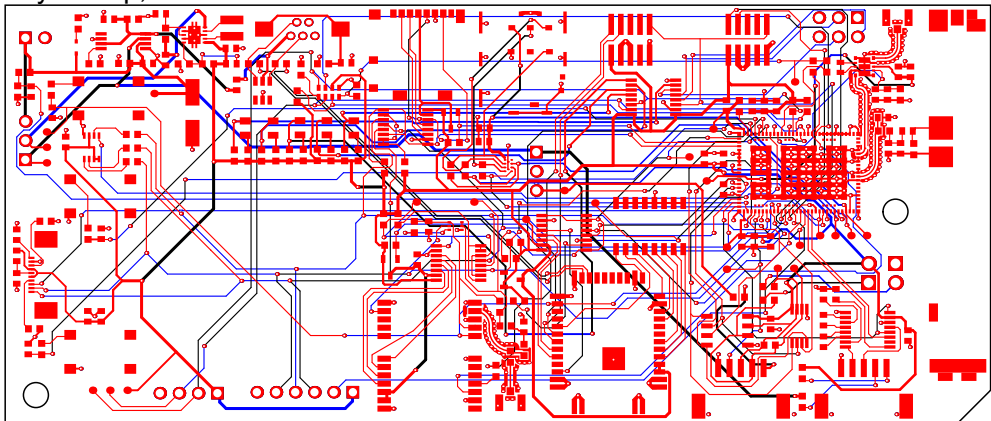
Layer 2 (Scale 1:1)



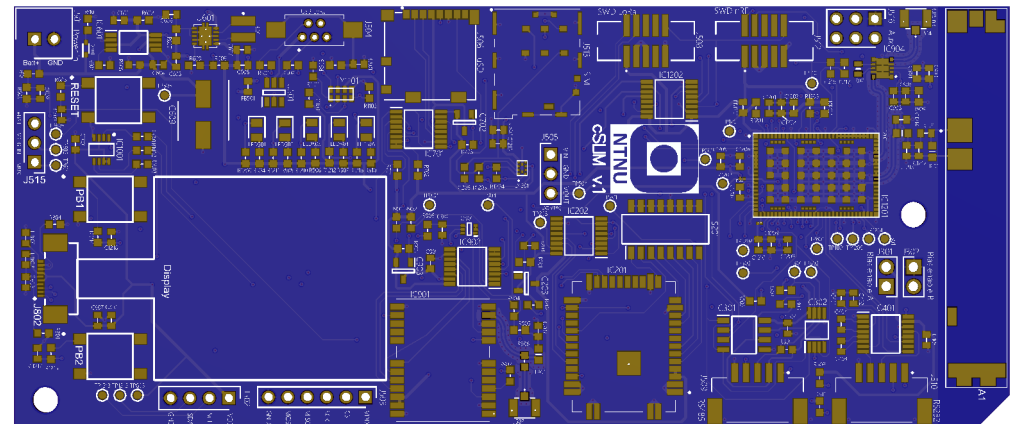
Bottom Layer (Scale 1:1)



Layer: Top, 3 and bottom.



Realistic View top



# Bill Of Materials

| Line # | Designator  | Comment           | Quantity |
|--------|---|-------------------|----------|
| 1      | A1  | P822601           | 1        |
| 2      | C301, C401, C402, C403, C404, C405, C601, C604, C606, C806, C810, C901, C904, C905, C907, C1001, C1202, C1205, C1209, C1215 | 100nF             | 20       |
| 3      | C501  | 12pF              | 1        |
| 4      | C502  | 10nF              | 1        |
| 5      | C602, C603, C902, C1216, C1217  | 1uF               | 5        |
| 6      | C605  | 10uF              | 1        |
| 7      | C607  | 22uF              | 1        |
| 8      | C608  | 1.8pF             | 1        |
| 9      | C609  | PCH1E101MCL4GS    | 1        |
| 10     | C807  | 1uF/50V           | 1        |
| 11     | C903, C906  | 100pF             | 2        |
| 12     | C1201, C1208  | 15pF              | 2        |
| 13     | C1203, C1210  | 47uF              | 2        |
| 14     | C1206, C1207  | 4.7uF             | 2        |
| 15     | C1211   | 3.5pF             | 1        |
| 16     | C1212, C1213, C1214   | N.C.              | 3        |
| 17     | D601  | 1SS390SMFHT2R     | 1        |
| 18     | D1201   | CM1402-03CP       | 1        |
| 19     | FB501   | 500mA             | 1        |
| 20     | FB801, FB802  | Ferrite_Bead      | 2        |
| 21     | FB1201  | 120ohm 0.7A       | 1        |
| 22     | IC201   | WLR089U0-I_RM     | 1        |
| 23     | IC202, IC701, IC902   | SN74AVC4T774PWR   | 3        |
| 24     | IC203, IC702  | NX2301P,215       | 2        |
| 25     | IC301   | MAX3486ESA+       | 1        |
| 26     | IC302   | MAX3471EUA+       | 1        |
| 27     | IC401   | MAX3221CUE+       | 1        |
| 28     | IC601   | TPS2113PWR        | 1        |
| 29     | IC901   | NEO-M9N-00B       | 1        |
| 30     | IC903   | NX2301P,215       | 1        |
| 31     | IC904   | SKY55950-11       | 1        |
| 32     | IC1001  | CY15B108QN-20LPXC | 1        |
| 33     | IC1201  | NRF9160-SICA-R7   | 1        |
| 34     | IC1202  | PCAL6408APWJ      | 1        |
| 35     | J301, J302  | Conn_01x02_Male   | 2        |
| 36     | J501  | Conn_01x02_Male   | 1        |
| 37     | J502  | Conn_01x04_Male   | 1        |
| 38     | J503  | Conn_01x06_Male   | 1        |
| 39     | J504  | 10119313-302TLF   | 1        |
| 40     | J505, J515  | Conn_01x03        | 2        |
| 41     | J506  | 104031-0811       | 1        |
| 42     | J507, J514  | CONUFL001-SMD-T   | 2        |

# Bill Of Materials

| Line # | Designator  | Comment               | Quantity |
|--------|---|-----------------------|----------|
| 43     | J508, J512  | SHF-105-01-L-D-SM     | 2        |
| 44     | J509, J510  | BM05B-ZESS-TBT_LF_SN_ | 2        |
| 45     | J513  | SF72S006VBAR2500      | 1        |
| 46     | J516  | TSW-103-08-S-D        | 1        |
| 47     | J802  | 52746-1071            | 1        |
| 48     | L601  | LPS3015-222MRB        | 1        |
| 49     | L901  | 27nH                  | 1        |
| 50     | L902  | 9n1                   | 1        |
| 51     | L1201   | 22nH                  | 1        |
| 52     | L1202   | 1.5nH                 | 1        |
| 53     | LED501  | APT2012LSECK_J3-PRV   | 1        |
| 54     | LED502  | APT2012LSYCK_J3-PRV   | 1        |
| 55     | LED503  | APT2012LZGCK          | 1        |
| 56     | LED504, LED505  | APT2012LVBC_D         | 2        |
| 57     | NT1201, NT1202  | NetTie                | 2        |
| 58     | PB1201, PB1202, S601  |                       | 3        |
| 59     | Q901  | SI1040X-T1-GE3        | 1        |
| 60     | R201, R202, R203, R603, R701, R702, R703, R801, R804, R901, R902, R903, R906, R1102, R1103, R1209, R1210, R1211, R1212, R1213 | 100k                  | 20       |
| 61     | R301  | 120R                  | 1        |
| 62     | R302, R303  | 680R                  | 2        |
| 63     | R501, R502  | 15R                   | 2        |
| 64     | R503, R508, R509, R511, R904, R907, R908, R1204, R1205, R1206, R1216, R1217   | 0R                    | 12       |
| 65     | R504, R505  | 820R                  | 2        |
| 66     | R506, R507, R510  | 330R                  | 3        |
| 67     | R601, R609  | 240k                  | 2        |
| 68     | R602, R606, R909  | 1M                    | 3        |
| 69     | R604  | 390R                  | 1        |
| 70     | R605, R1214, R1215  | 1k                    | 3        |
| 71     | R607  | 100R                  | 1        |
| 72     | R608  | 1M2                   | 1        |
| 73     | R610  | 3k                    | 1        |
| 74     | R905  | 10R                   | 1        |
| 75     | R1001, R1002  | 33R                   | 2        |
| 76     | R1003   | 50R                   | 1        |
| 77     | R1101, R1201  | 10k                   | 2        |
| 78     | R1202, R1203  | 4.7k                  | 2        |
| 79     | S201  | 97C08ST               | 1        |
| 80     | U501  | USBL6-2SC6            | 1        |
| 81     | U601  | TPS63000DRCR          | 1        |
| 82     | Y1101   | RV-3032-C7-TA-QC      | 1        |

Layer Stack Legend

| Material                | Layer          | Thickness | Dielectric Material | Type        | Gerber |
|-------------------------|----------------|-----------|---------------------|-------------|--------|
|                         | Top Overlay    |           |                     | Legend      | GTO    |
| Surface Material        | Top Solder     | 0.01mm    | Solder Resist       | Solder Mask | GTS    |
| Copper                  | Top Layer      | 0.04mm    |                     | Signal      | GTL    |
| Prepreg                 |                | 0.11mm    | FR-4                | Dielectric  |        |
| CF-004                  | Layer 2        | 0.04mm    |                     | Signal      | G1     |
| Core                    |                | 1.13mm    | FR-4                | Dielectric  |        |
| CF-004                  | Layer 3        | 0.04mm    |                     | Signal      | G2     |
| Prepreg                 |                | 0.11mm    | FR-4                | Dielectric  |        |
| Copper                  | Bottom Layer   | 0.04mm    |                     | Signal      | GBL    |
| Surface Material        | Bottom Solder  | 0.01mm    | Solder Resist       | Solder Mask | GBS    |
|                         | Bottom Overlay |           |                     | Legend      | GBO    |
| Total thickness: 1.51mm |                |           |                     |             |        |

