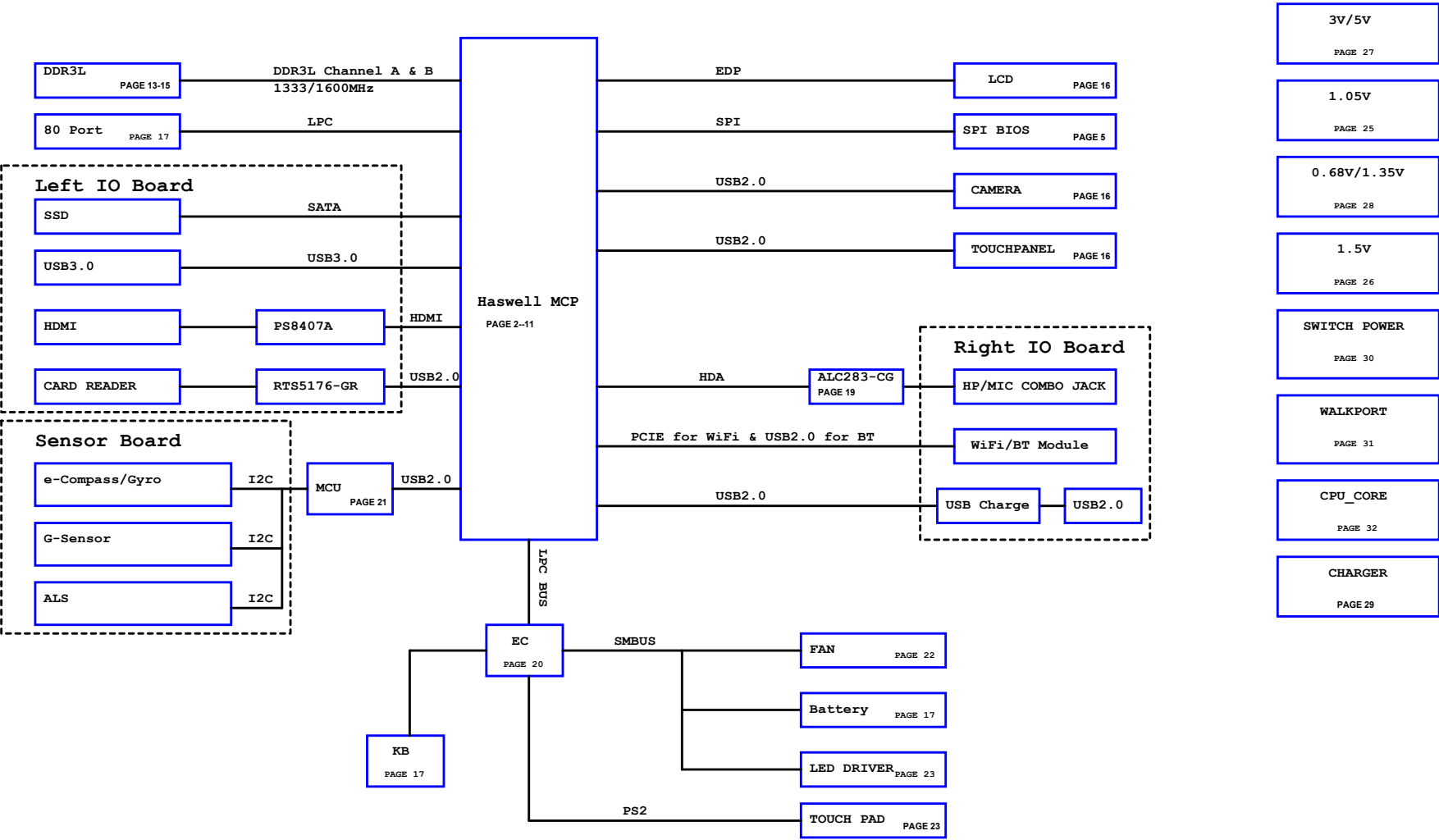
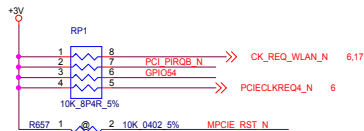
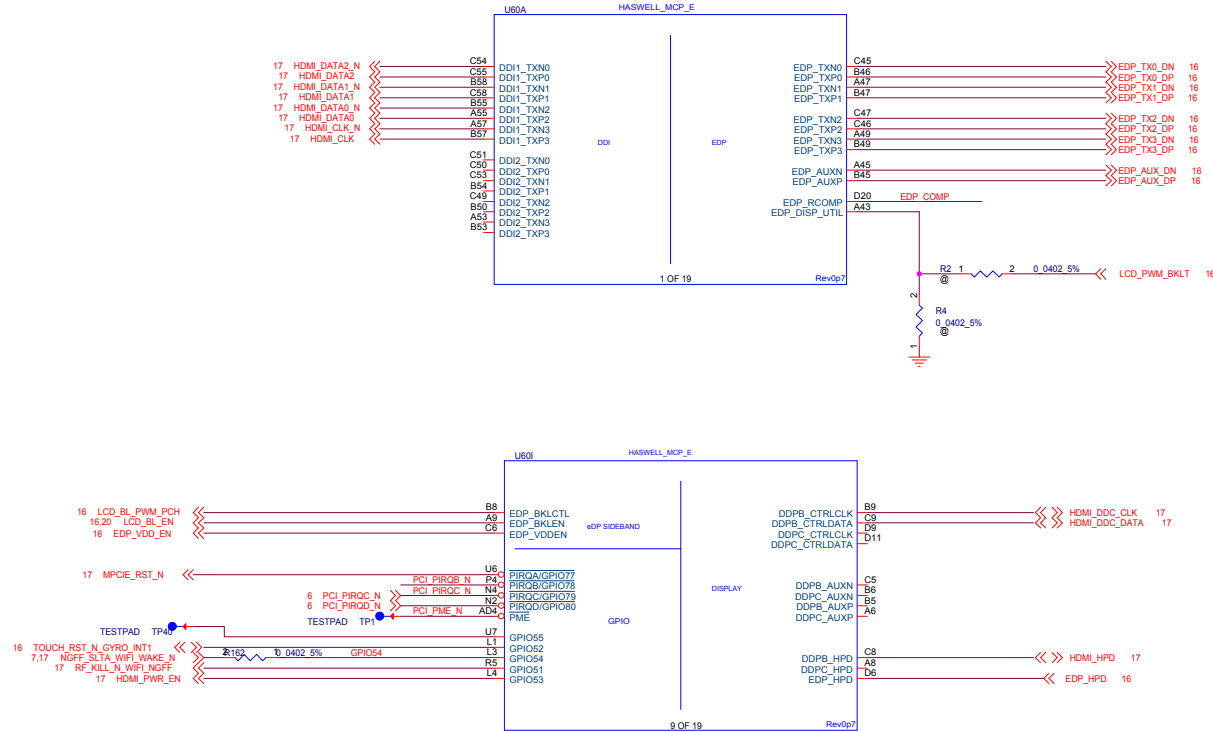
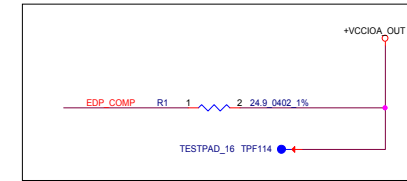
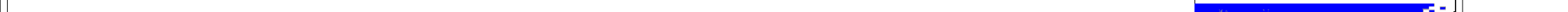
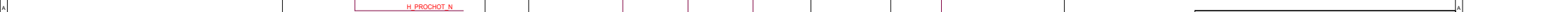
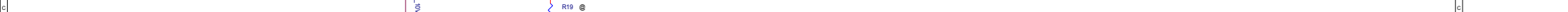


Kona SVT-NCS Schematic Block Diagram



Haswell MCP (DDI,EDP)





Haswell MCP (LPDDR3)

U600

Left pins name: Option A/Option B/Option C/Option D

Right pins name: Option D/Option C/Option B/Option A

4 memory types:
Option A: DDR3L Interleaved
Option B: LP-DDR3 Interleaved
Option C: DDR3L Non-Interleaved
Option D: LP-DDR3 Non-Interleaved

U601

Left pins name: Option A/Option B/Option C/Option D

Right pins name: Option D/Option C/Option B/Option A

4 memory types:
Option A: DDR3L Interleaved
Option B: LP-DDR3 Interleaved
Option C: DDR3L Non-Interleaved
Option D: LP-DDR3 Non-Interleaved

U602

Left pins name: Option A/Option B/Option C/Option D

Right pins name: Option D/Option C/Option B/Option A

4 memory types:
Option A: DDR3L Interleaved
Option B: LP-DDR3 Interleaved
Option C: DDR3L Non-Interleaved
Option D: LP-DDR3 Non-Interleaved

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Rev07

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Haswell MCP (LPDDR3)

Document Number

Size

C

Kona

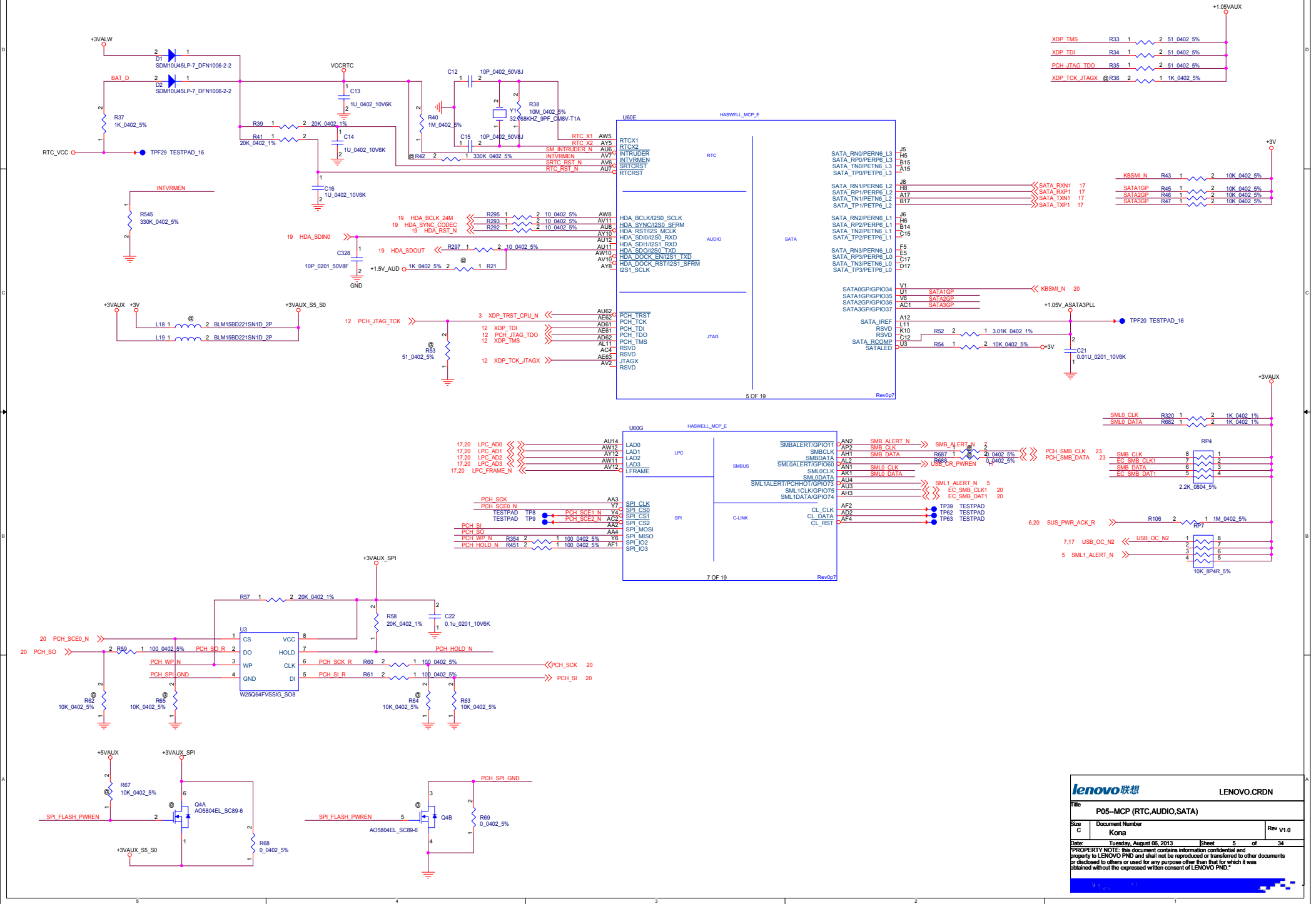
Rev V1.0

Date: Tuesday, August 06, 2013

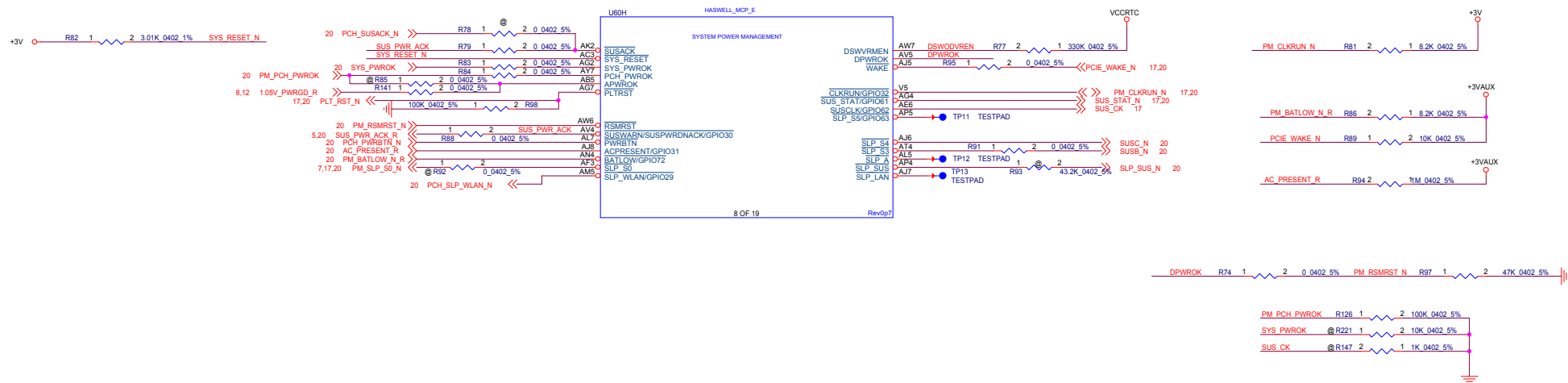
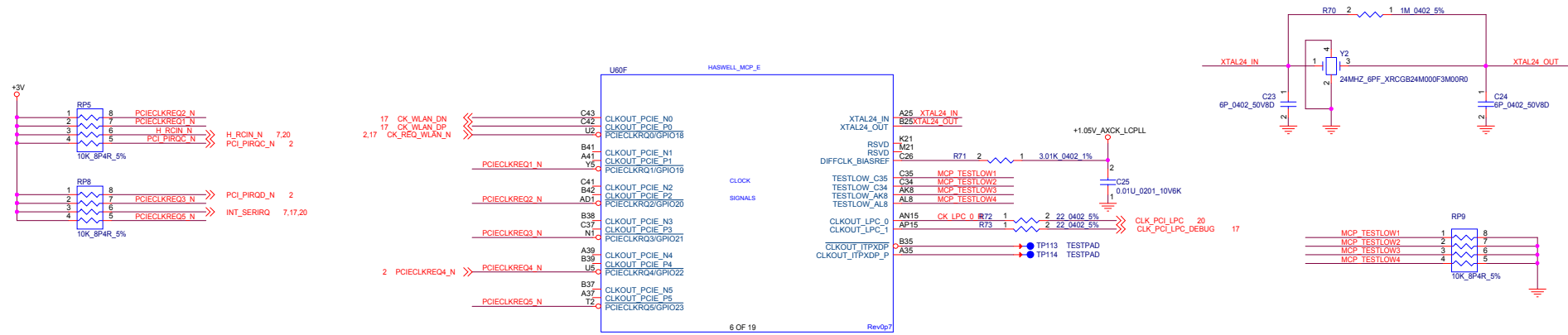
Sheet 4 of 34

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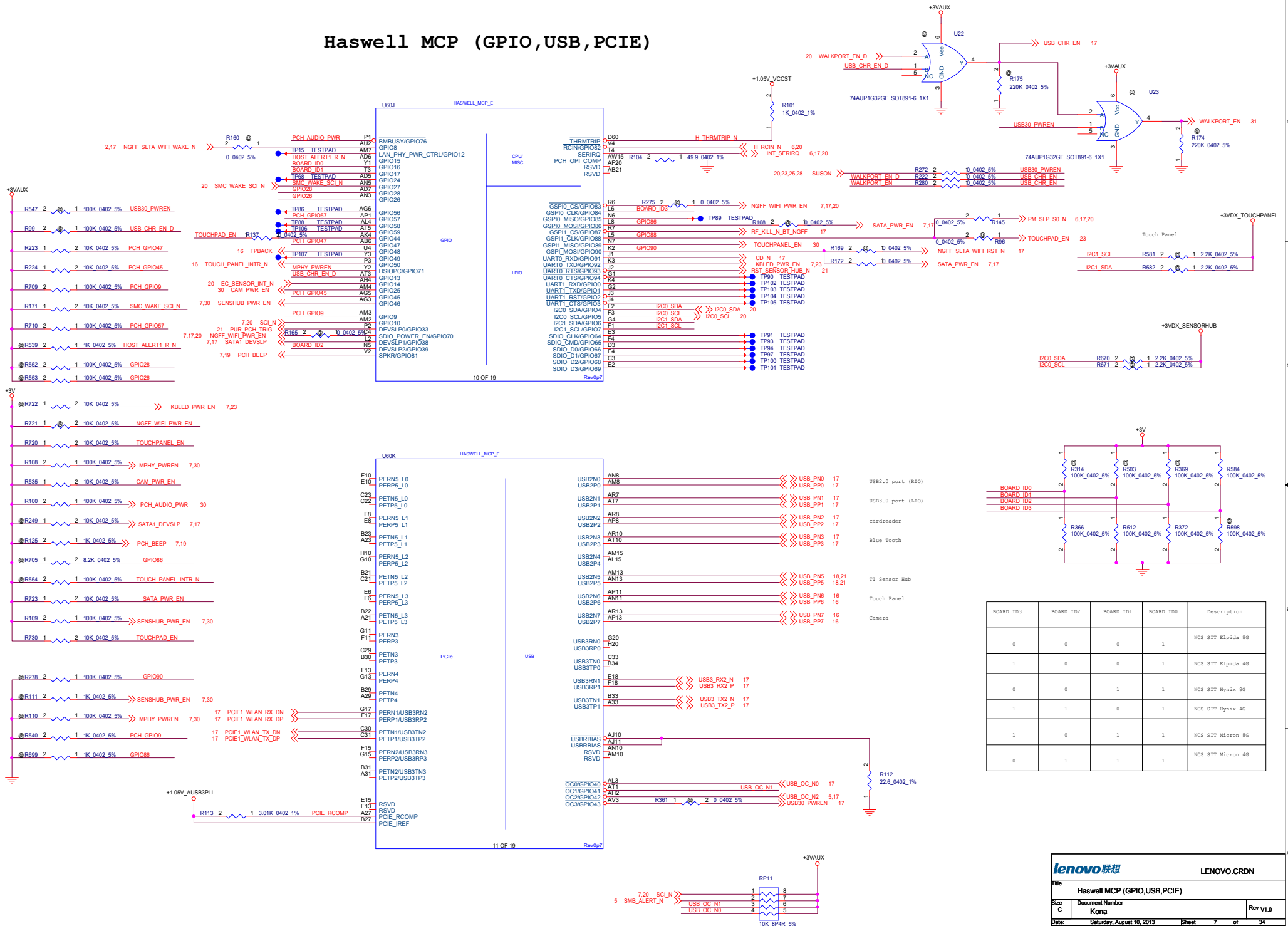
Haswell MCP (RTC,AUDIO,JTAG,SATA,LPC,SPI,SMBUS)



Haswell MCP (Clock, PM)

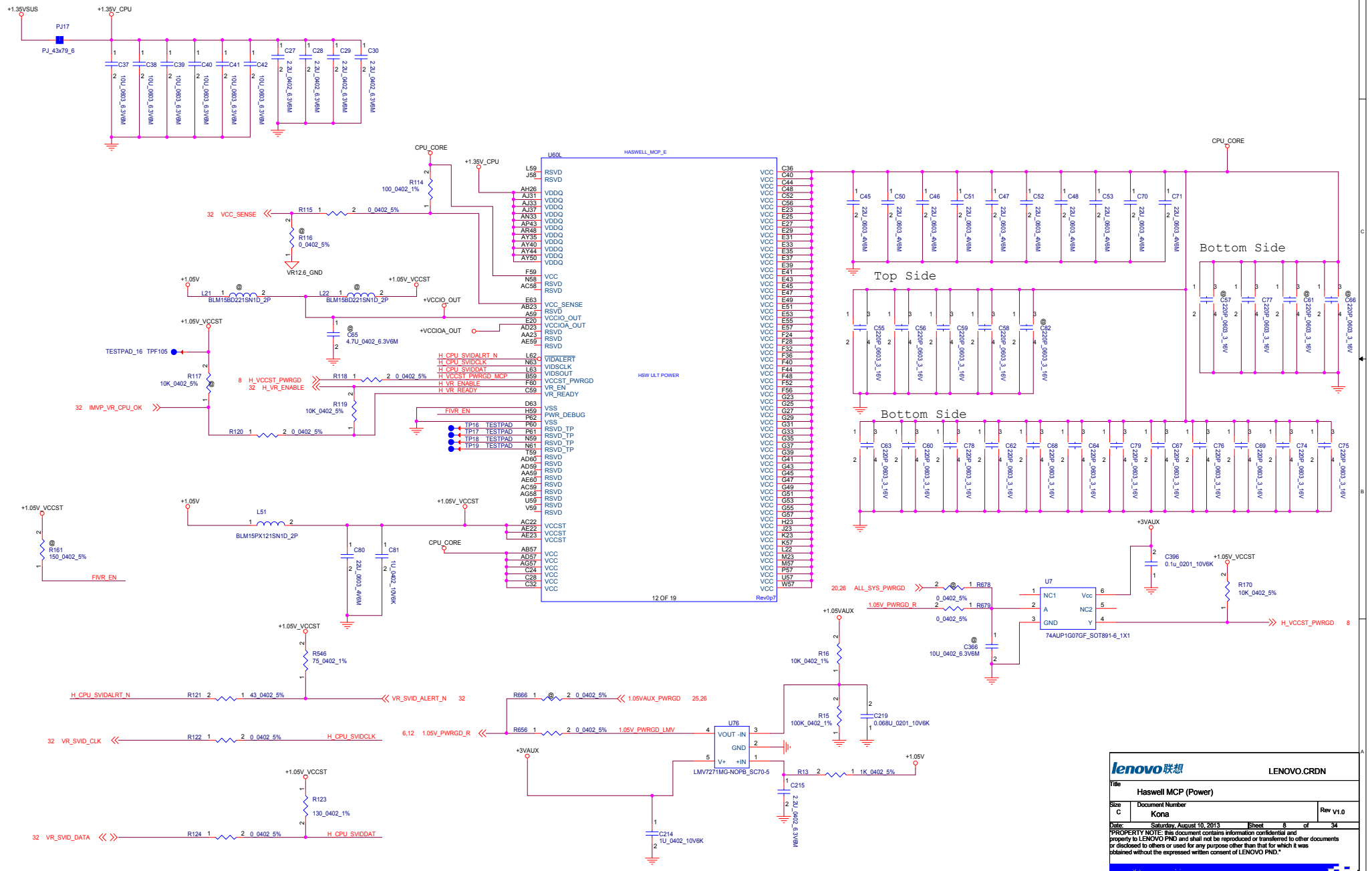


Haswell MCP (GPIO,USB,PCIE)

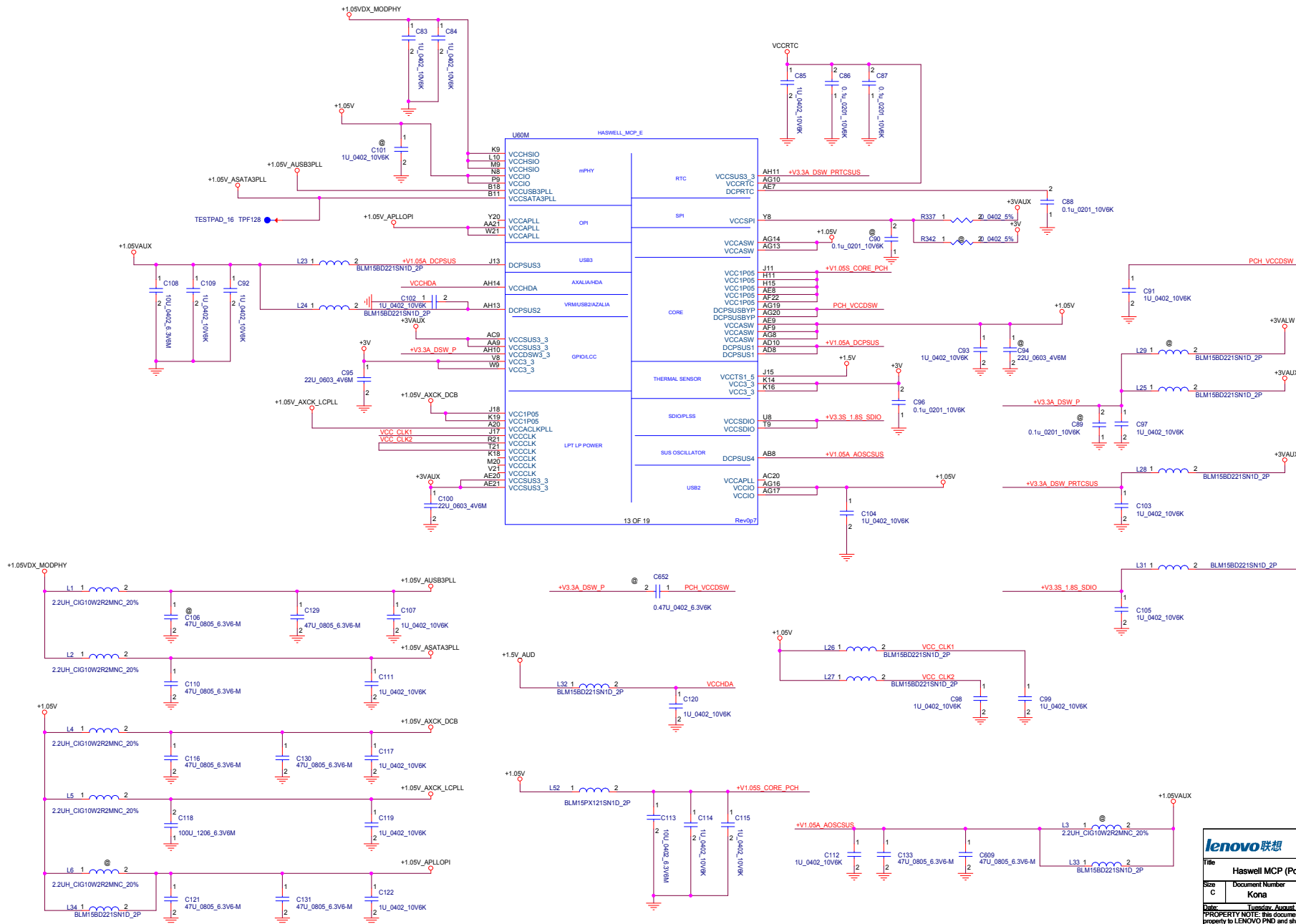


BOARD_ID3	BOARD_ID2	BOARD_ID1	BOARD_ID0	Description
0	0	0	1	NCS SIT Elpida 8G
1	0	0	1	NCS SIT Elpida 4G
0	0	1	1	NCS SIT Hynix 8G
1	1	0	1	NCS SIT Hynix 4G
1	0	1	1	NCS SIT Micron 8G
0	1	1	1	NCS SIT Micron 4G

Haswell MCP (Power)



Haswell MCP (Power2)

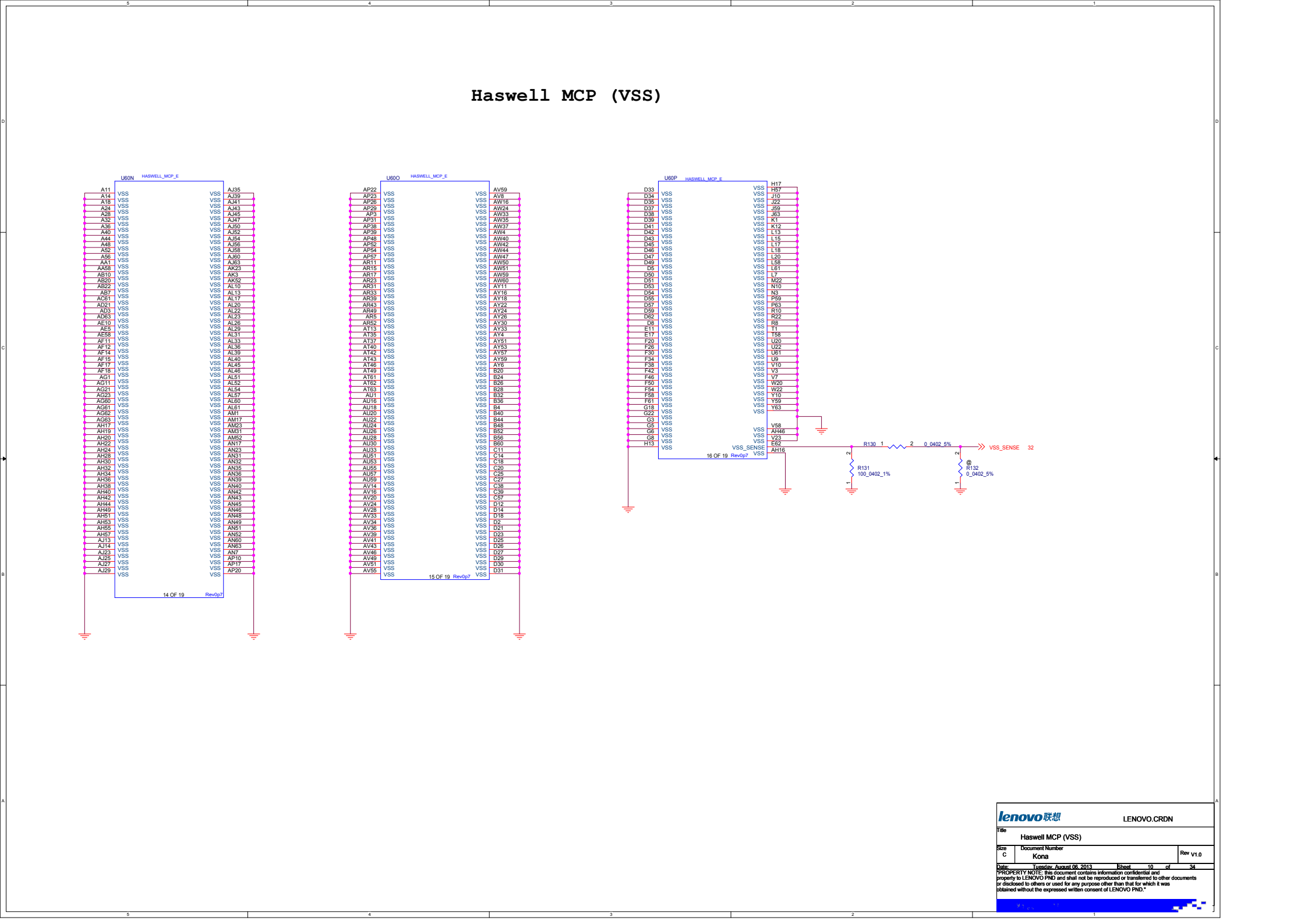


Haswell MCP (VSS)

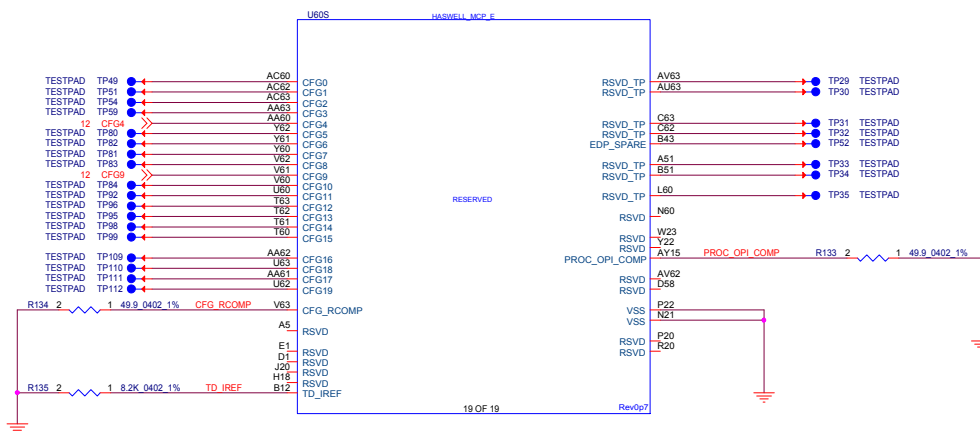
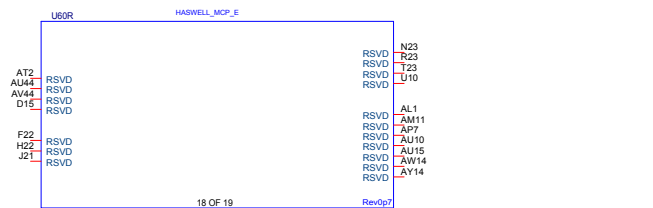
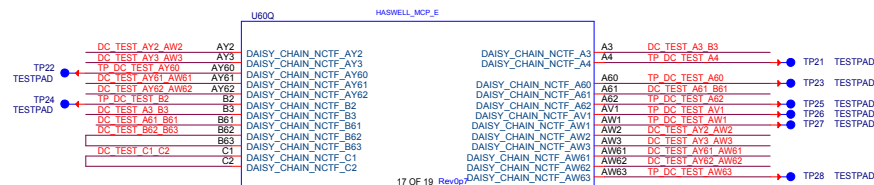
The diagram illustrates the VSS (Voltage Sense) connections for the Haswell MCP. It features three U60P components (U60N, U600, U60P) and their connections to a VSS_SENSE signal. The components are shown with their respective pin lists and connections to ground and the VSS_SENSE signal.

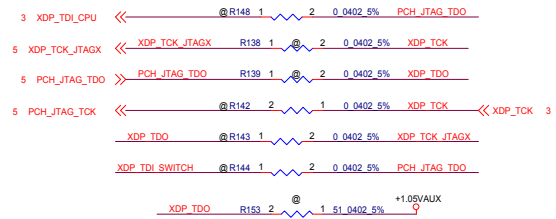
U60N HASWELL_MCP_E

Pin List (Left): A11, A14, A18, A24, A26, A32, A36, A40, A44, A48, A52, A56, A60, A64, A68, A72, A76, A80, A84, A88, A92, A96, A100, A104, A108, A112, A116, A120, A124, A128, A132, A136, A140, A144, A148, A152, A156, A160, A164, A168, A172, A176, A180, A184, A188, A192, A196, A200, A204, A208, A212, A216, A220, A224, A228, A232, A236, A240, A244, A248, A252, A256, A260, A264, A268, A272, A276, A280, A284, A288, A292, A296, A300, A304, A308, A312, A316, A320, A324, A328, A332, A336, A340, A344, A348, A352, A356, A360, A364, A368, A372, A376, A380, A384, A388, A392, A396, A400, A404, A408, A412, A416, A420, A424, A428, A432, A436, A440, A444, A448, A452, A456, A460, A464, A468, A472, A476, A480, A484, A488, A492, A496, A500, A504, A508, A512, A516, A520, A524, A528, A532, A536, A540, A544, A548, A552, A556, A560, A564, A568, A572, A576, A580, A584, A588, A592, A596, A600, A604, A608, A612, A616, A620, A624, A628, A632, A636, A640, A644, A648, A652, A656, A660, A664, A668, A672, A676, A680, A684, A688, A692, A696, A700, A704, A708, A712, A716, A720, A724, A728, A732, A736, A740, A744, A748, A752, A756, A760, A764, A768, A772, A776, A780, A784, A788, A792, A796, A800, A804, A808, A812, A816, A820, A824, A828, A832, A836, A840, A844, A848, A852, A856, A860, A864, A868, A872, A876, A880, A884, A888, A892, A896, A900, A904, A908, A912, A916, A920, A924, A928, A932, A936, A940, A944, A948, A952, A956, A960, A964, A968, A972, A976, A980, A984, A988, A992, A996, A1000, A1004, A1008, A1012, A1016, A1020, A1024, A1028, A1032, A1036, A1040, A1044, A1048, A1052, A1056, A1060, A1064, A1068, A1072, A1076, A1080, A1084, A1088, A1092, A1096, A1100, A1104, A1108, A1112, A1116, A1120, A1124, A1128, A1132, A1136, A1140, A1144, A1148, A1152, A1156, A1160, A1164, A1168, A1172, A1176, A1180, A1184, A1188, A1192, A1196, A1200, A1204, A1208, A1212, A1216, A1220, A1224, A1228, A1232, A1236, A1240, A1244, A1248, A1252, A1256, A1260, A1264, A1268, A1272, A1276, A1280, A1284, A1288, A1292, A1296, A1300, A1304, A1308, A1312, A1316, A1320, A1324, A1328, A1332, A1336, A1340, A1344, A1348, A1352, A1356, A1360, A1364, A1368, A1372, A1376, A1380, A1384, A1388, A1392, A1396, A1400, A1404, A1408, A1412, A1416, A1420, A1424, A1428, A1432, A1436, A1440, A1444, A1448, A1452, A1456, A1460, A1464, A1468, A1472, A1476, A1480, A1484, A1488, A1492, A1496, A1500, A1504, A1508, A1512, A1516, A1520, A1524, A1528, A1532, A1536, A1540, A1544, A1548, A1552, A1556, A1560, A1564, A1568, A1572, A1576, A1580, A1584, A1588, A1592, A1596, A1600, A1604, A1608, A1612, A1616, A1620, A1624, A1628, A1632, A1636, A1640, A1644, A1648, A1652, A1656, A1660, A1664, A1668, A1672, A1676, A1680, A1684, A1688, A1692, A1696, A1700, A1704, A1708, A1712, A1716, A1720, A1724, A1728, A1732, A1736, A1740, A1744, A1748, A1752, A1756, A1760, A1764, A1768, A1772, A1776, A1780, A1784, A1788, A1792, A1796, A1800, A1804, A1808, A1812, A1816, A1820, A1824, A1828, A1832, A1836, A1840, A1844, A1848, A1852, A1856, A1860, A1864, A1868, A1872, A1876, A1880, A1884, A1888, A1892, A1896, A1900, A1904, A1908, A1912, A1916, A1920, A1924, A1928, A1932, A1936, A1940, A1944, A1948, A1952, A1956, A1960, A1964, A1968, A1972, A1976, A1980, A1984, A1988, A1992, A1996, A2000, A2004, A2008, A2012, A2016, A2020, A2024, A2028, A2032, A2036, A2040, A2044, A2048, A2052, A2056, A2060, A2064, A2068, A2072, A2076, A2080, A2084, A2088, A2092, A2096, A2100, A2104, A2108, A2112, A2116, A2120, A2124, A2128, A2132, A2136, A2140, A2144, A2148, A2152, A2156, A2160, A2164, A2168, A2172, A2176, A2180, A2184, A2188, A2192, A2196, A2200, A2204, A2208, A2212, A2216, A2220, A2224, A2228, A2232, A2236, A2240, A2244, A2248, A2252, A2256, A2260, A2264, A2268, A2272, A2276, A2280, A2284, A2288, A2292, A2296, A2300, A2304, A2308, A2312, A2316, A2320, A2324, A2328, A2332, A2336, A2340, A2344, A2348, A2352, A2356, A2360, A2364, A2368, A2372, A2376, A2380, A2384, A2388, A2392, A2396, A2400, A2404, A2408, A2412, A2416, A2420, A2424, A2428, A2432, A2436, A2440, A2444, A2448, A2452, A2456, A2460, A2464, A2468, A2472, A2476, A2480, A2484, A2488, A2492, A2496, A2500, A2504, A2508, A2512, A2516, A2520, A2524, A2528, A2532, A2536, A2540, A2544, A2548, A2552, A2556, A2560, A2564, A2568, A2572, A2576, A2580, A2584, A2588, A2592, A2596, A2600, A2604, A2608, A2612, A2616, A2620, A2624, A2628, A2632, A2636, A2640, A2644, A2648, A2652, A2656, A2660, A2664, A2668, A2672, A2676, A2680, A2684, A2688, A2692, A2696, A2700, A2704, A2708, A2712, A2716, A2720, A2724, A2728, A2732, A2736, A2740, A2744, A2748, A2752, A2756, A2760, A2764, A2768, A2772,



Haswell MCP (OTHER)





D

D

C

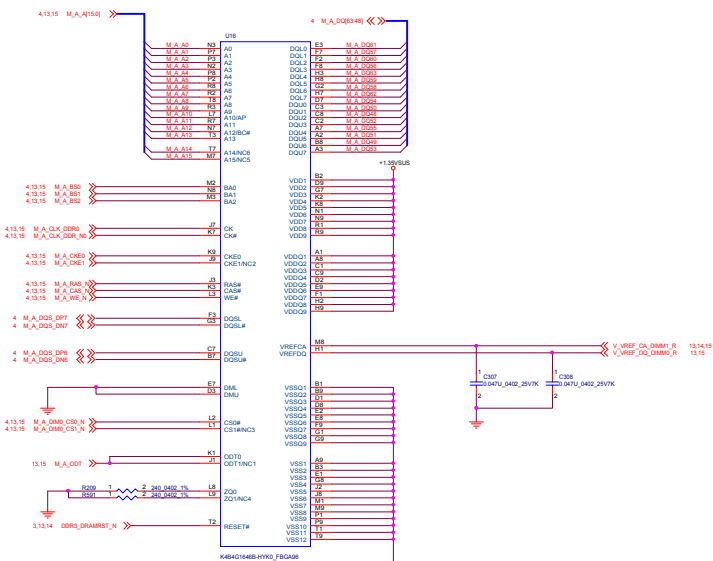
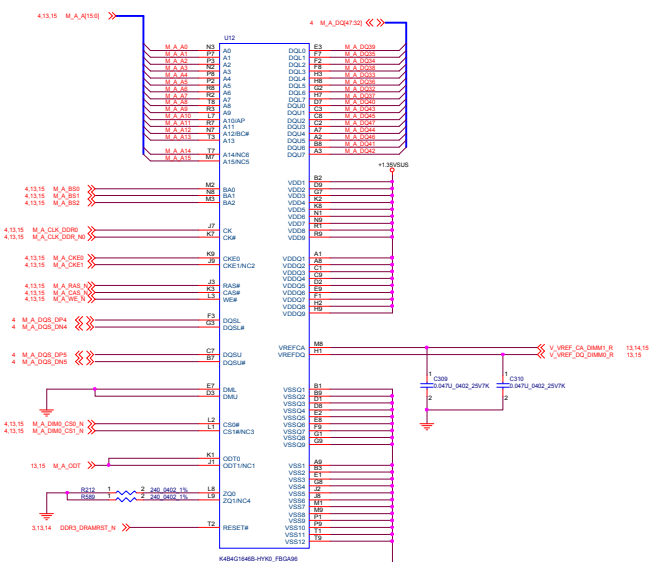
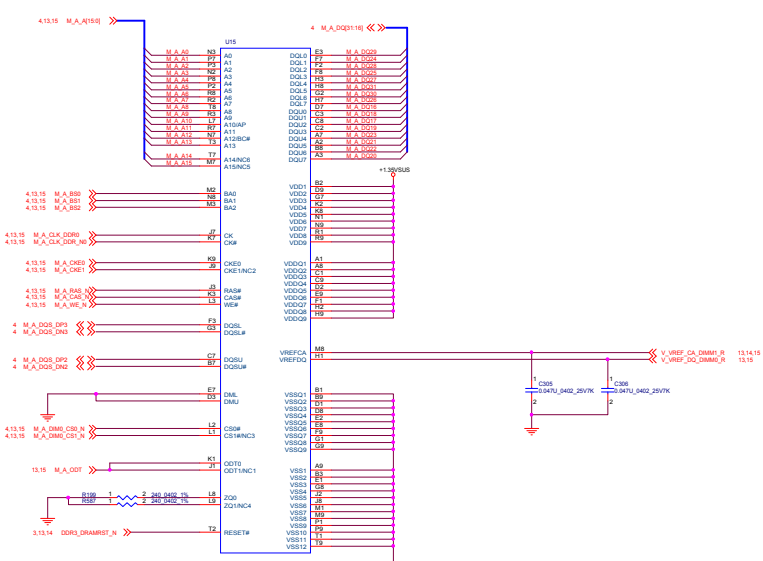
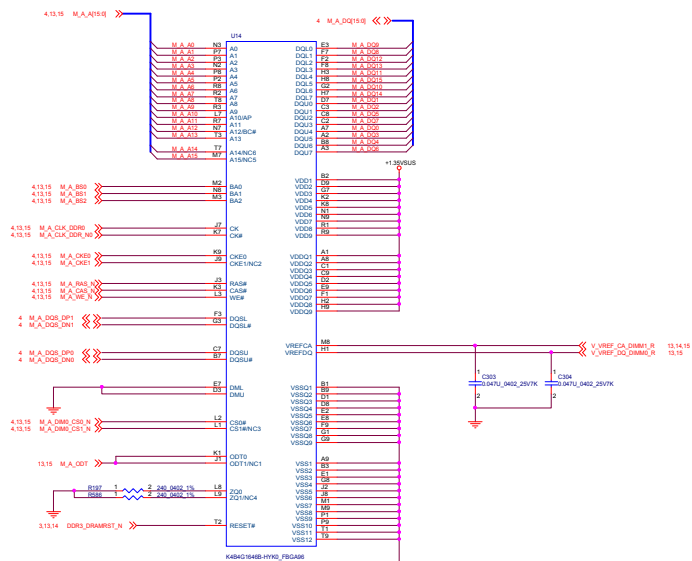
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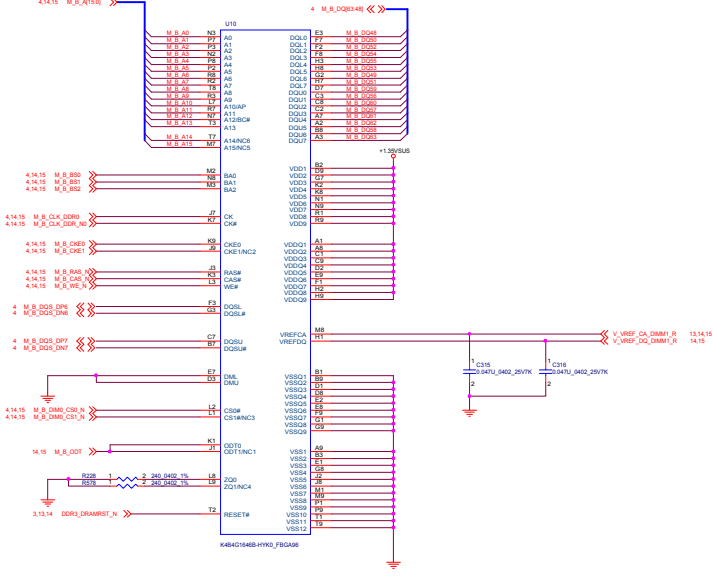
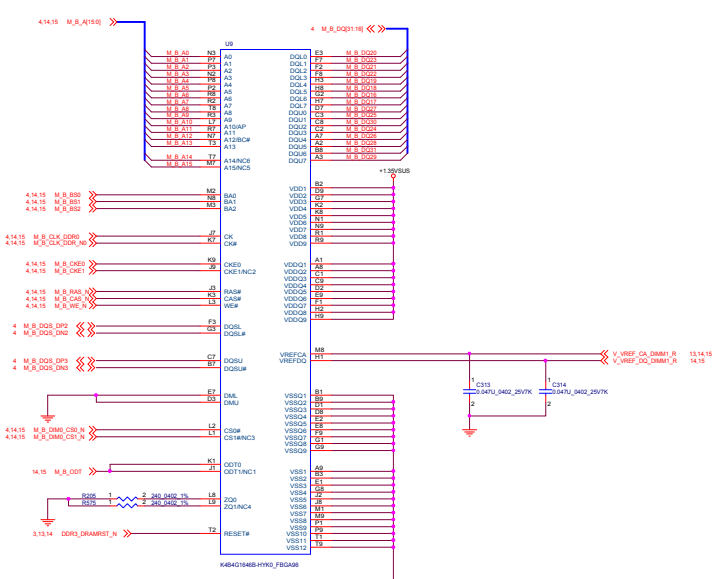
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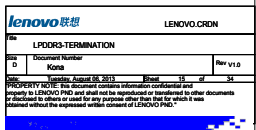
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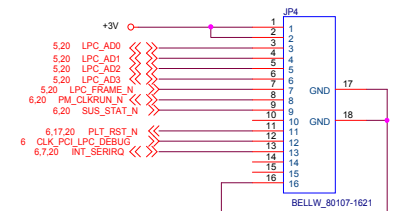
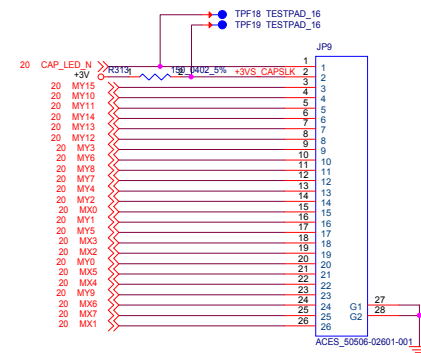
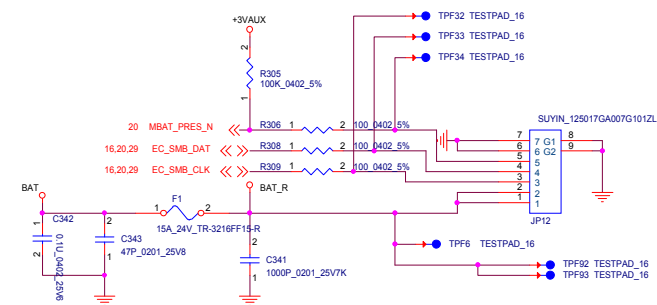
A

A



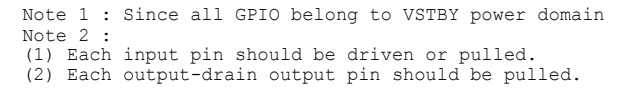


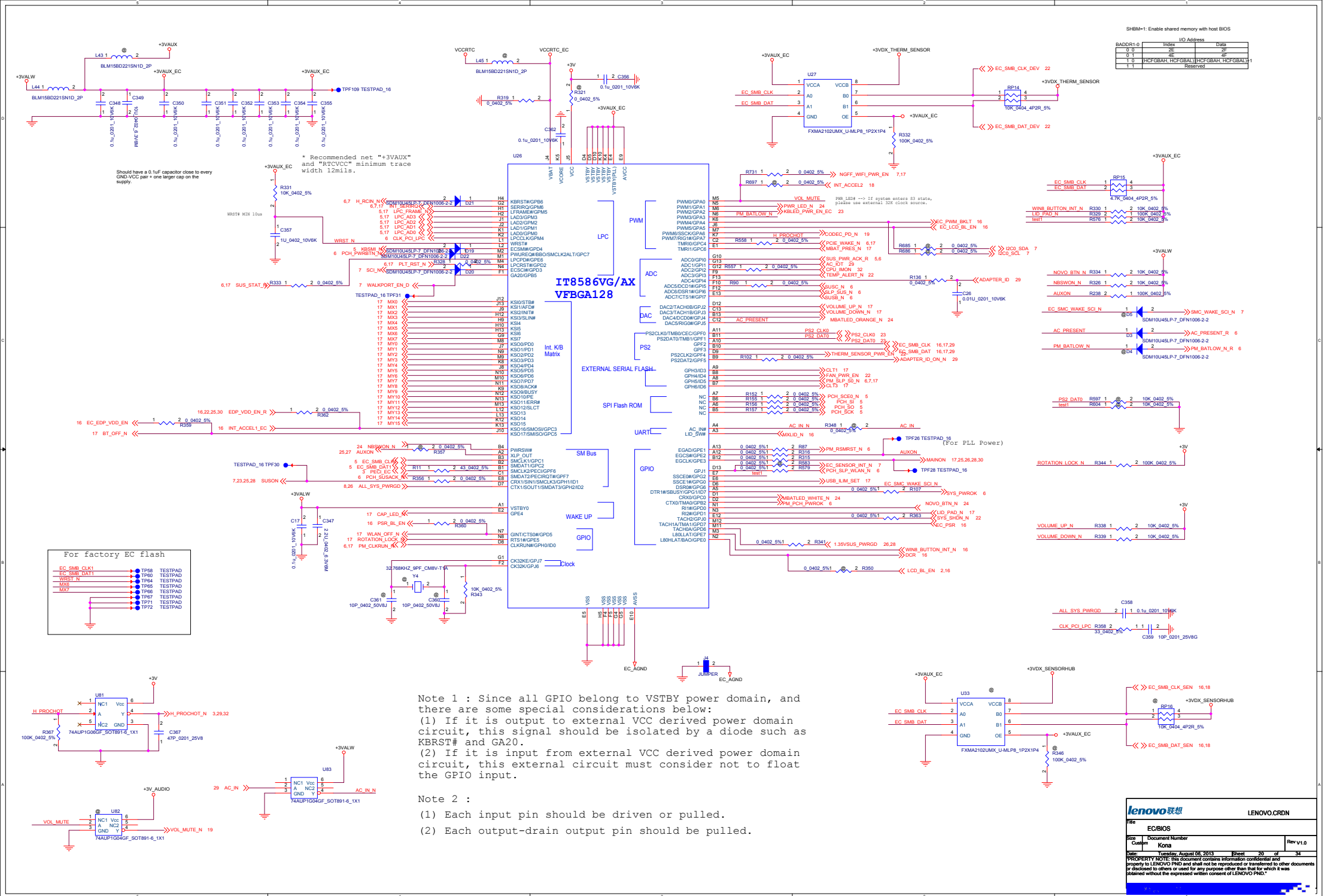


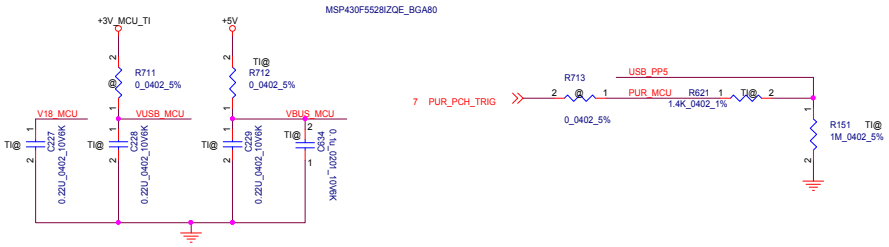
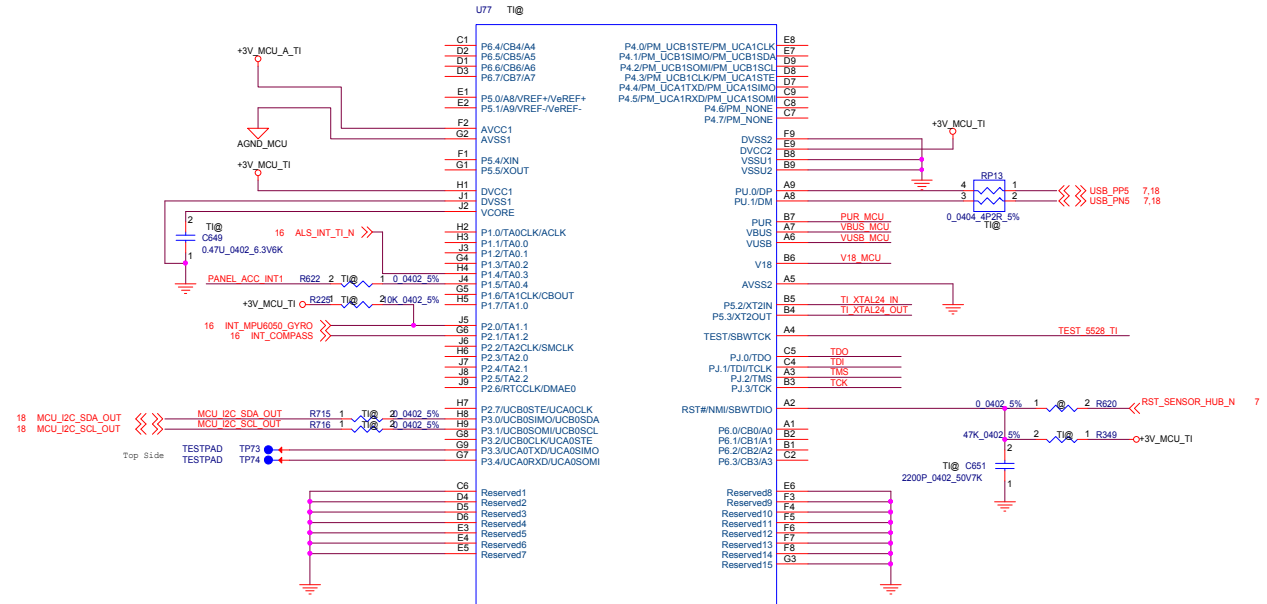
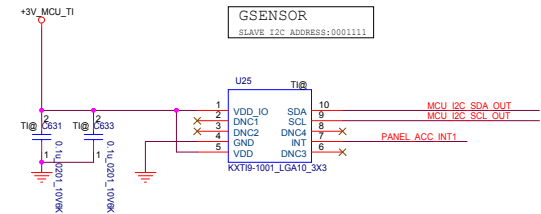
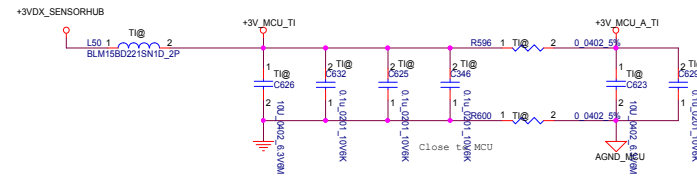


5 SATA_RXP1 <<< C276 2 | 1 0.01U 0201 10V8K >>> SATA_RXP1_C 17
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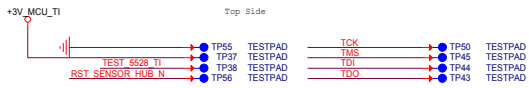
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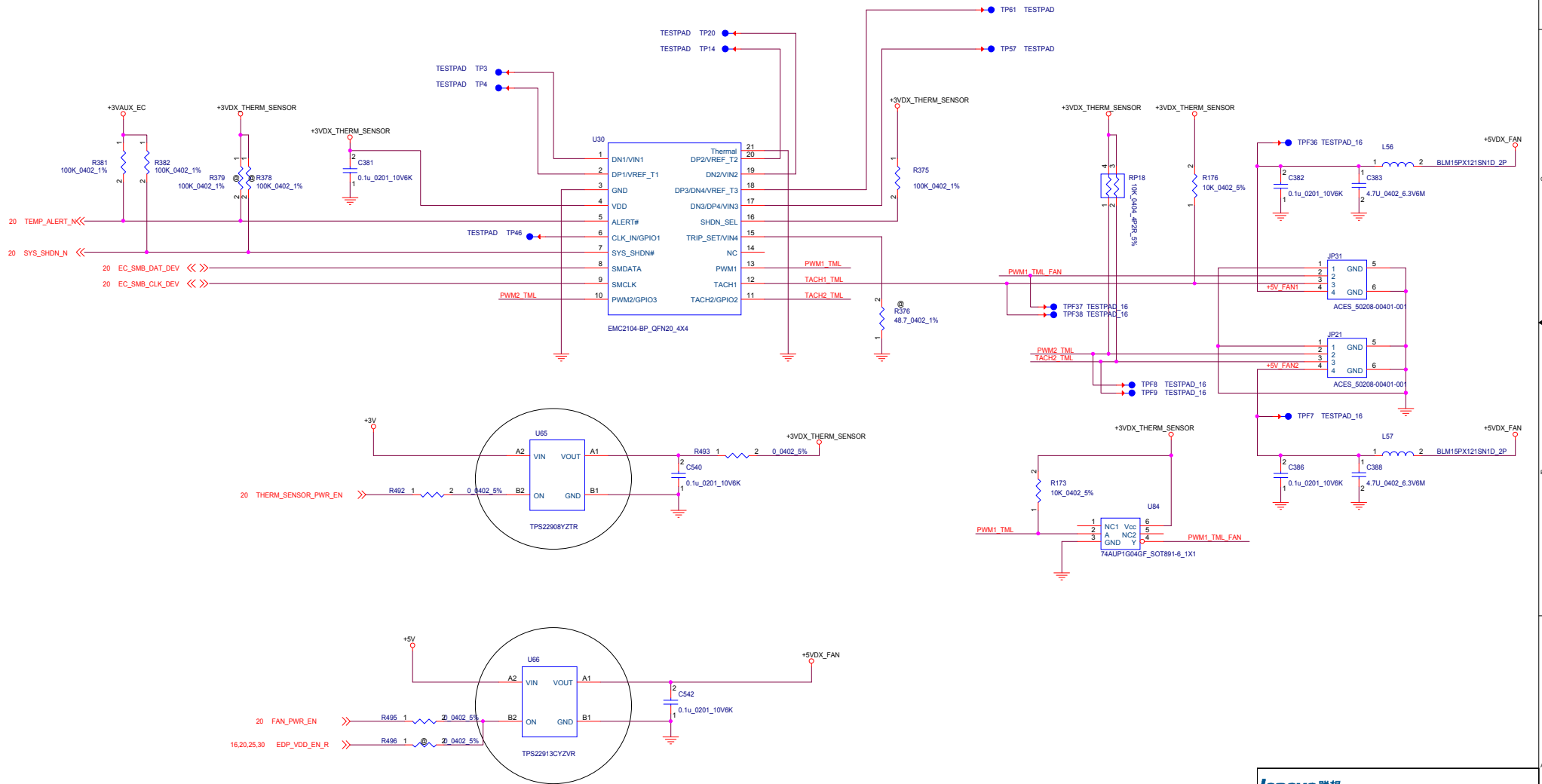


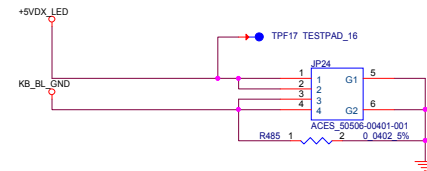
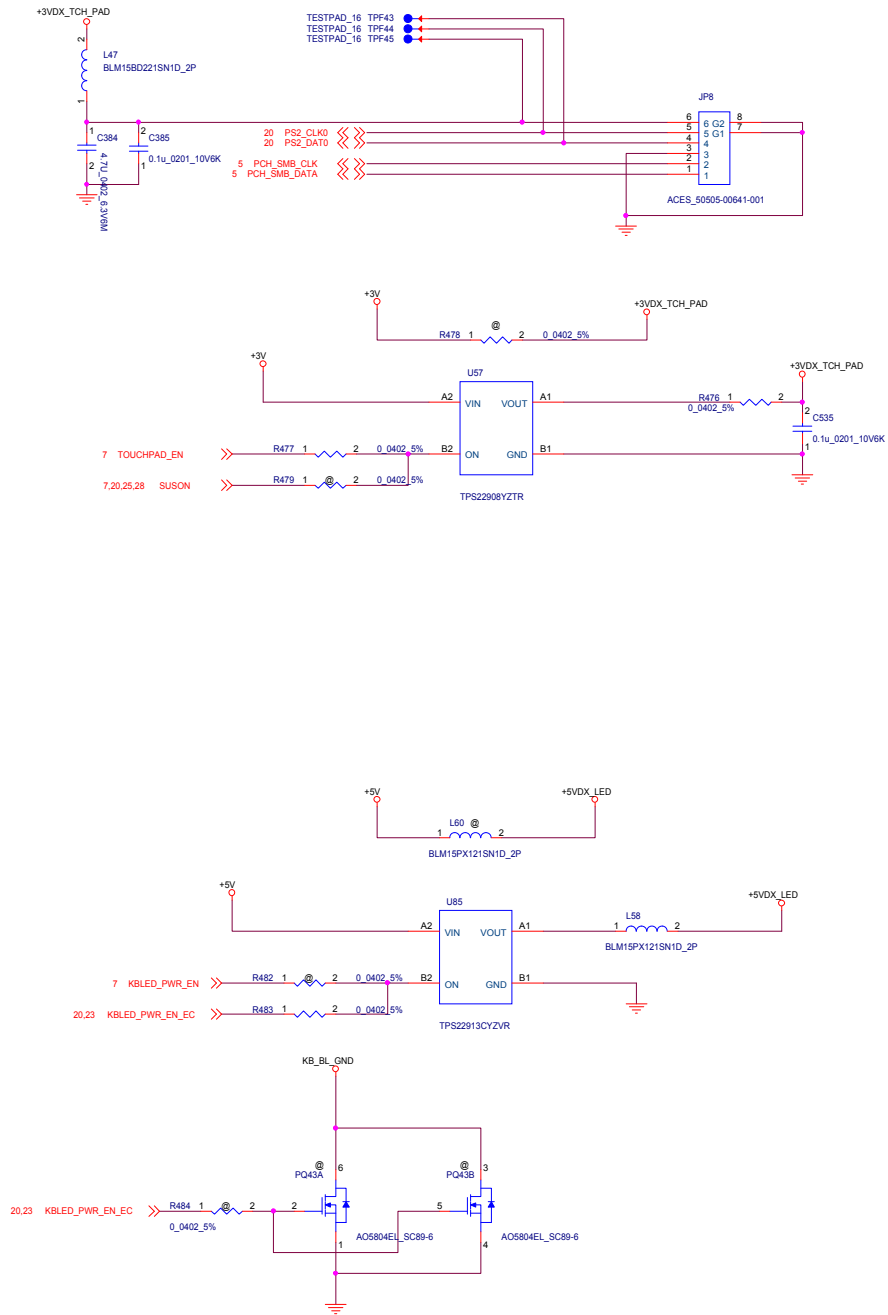


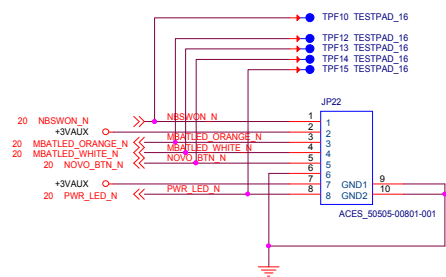


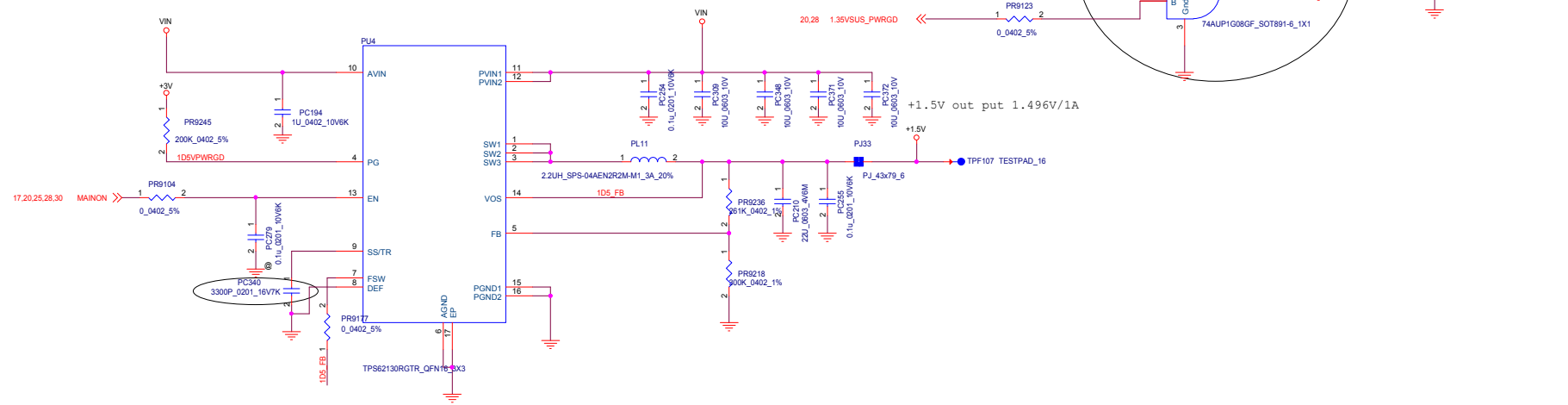
MCU JTAG



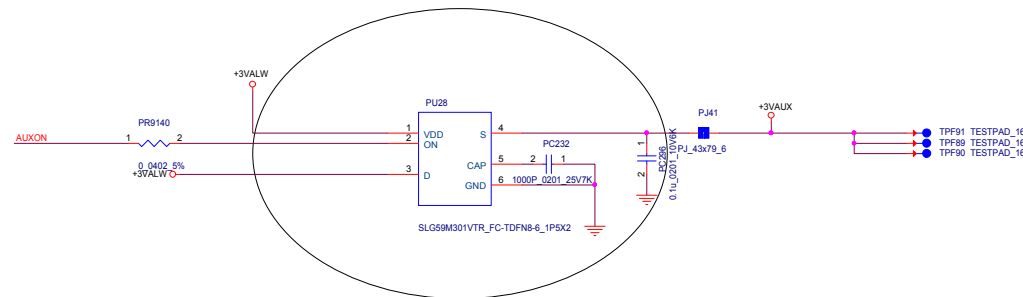
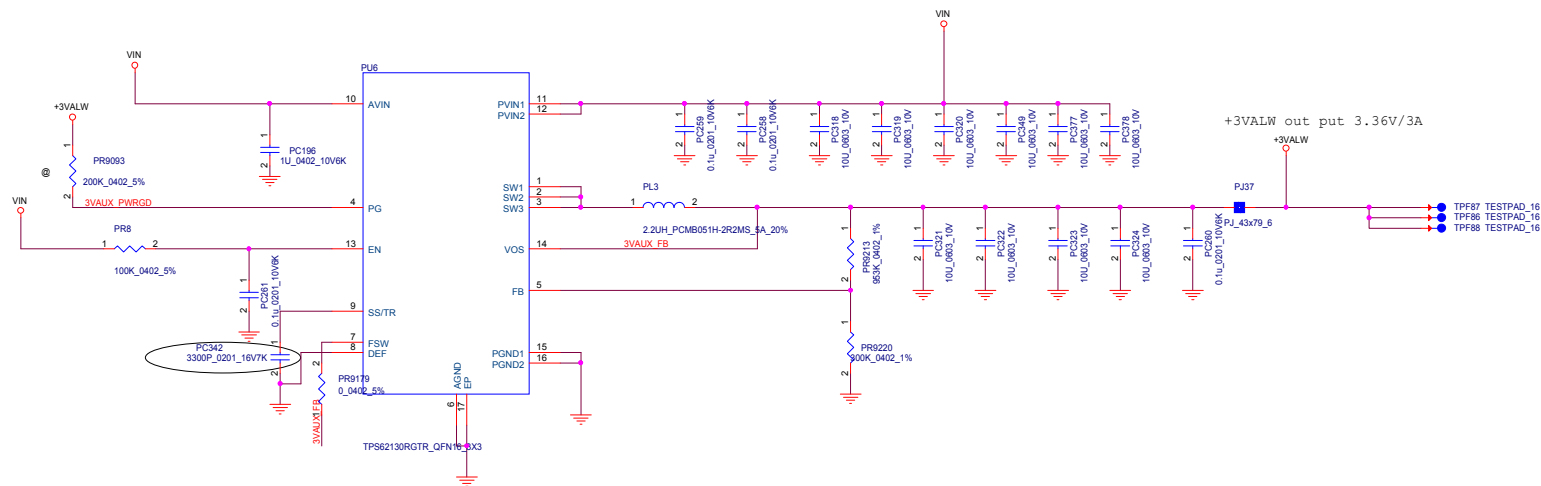
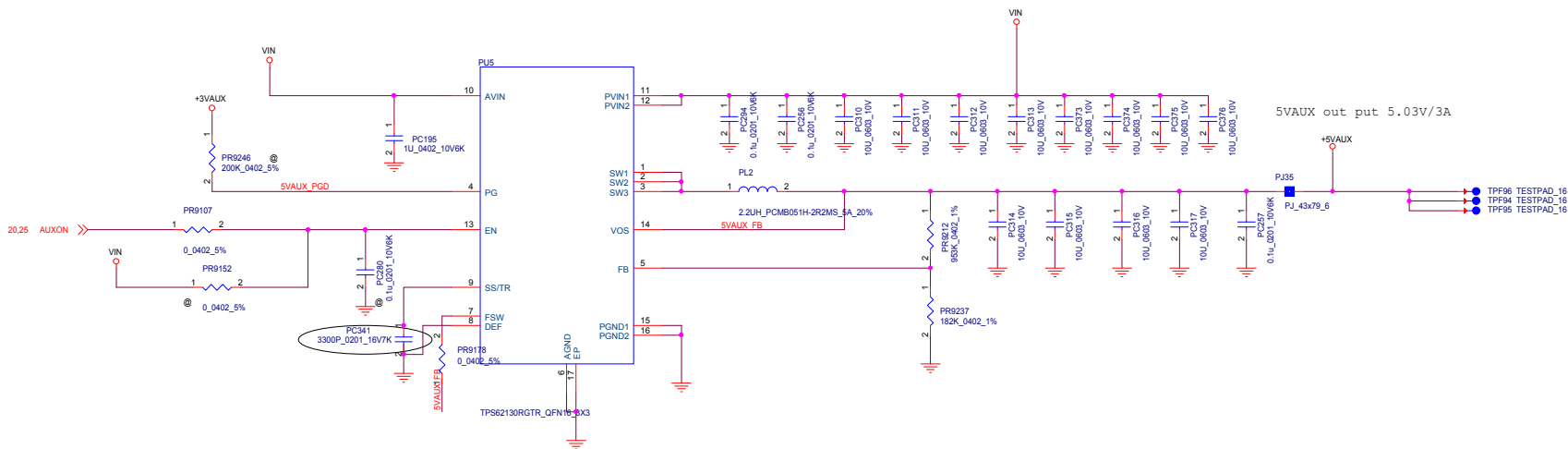


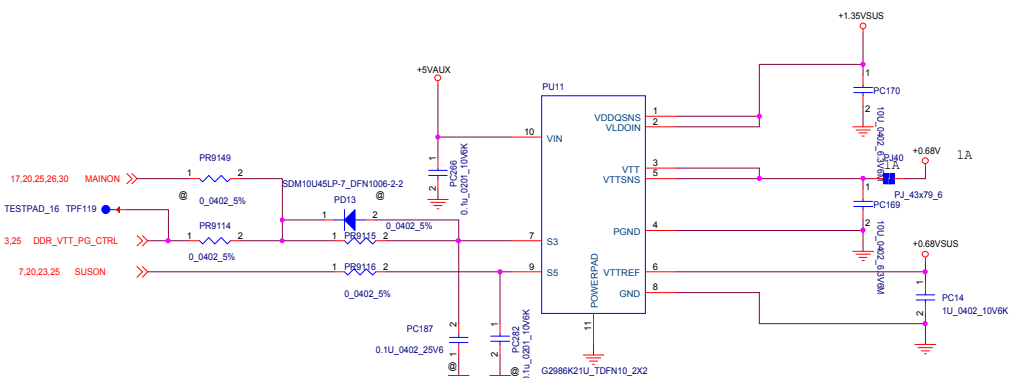
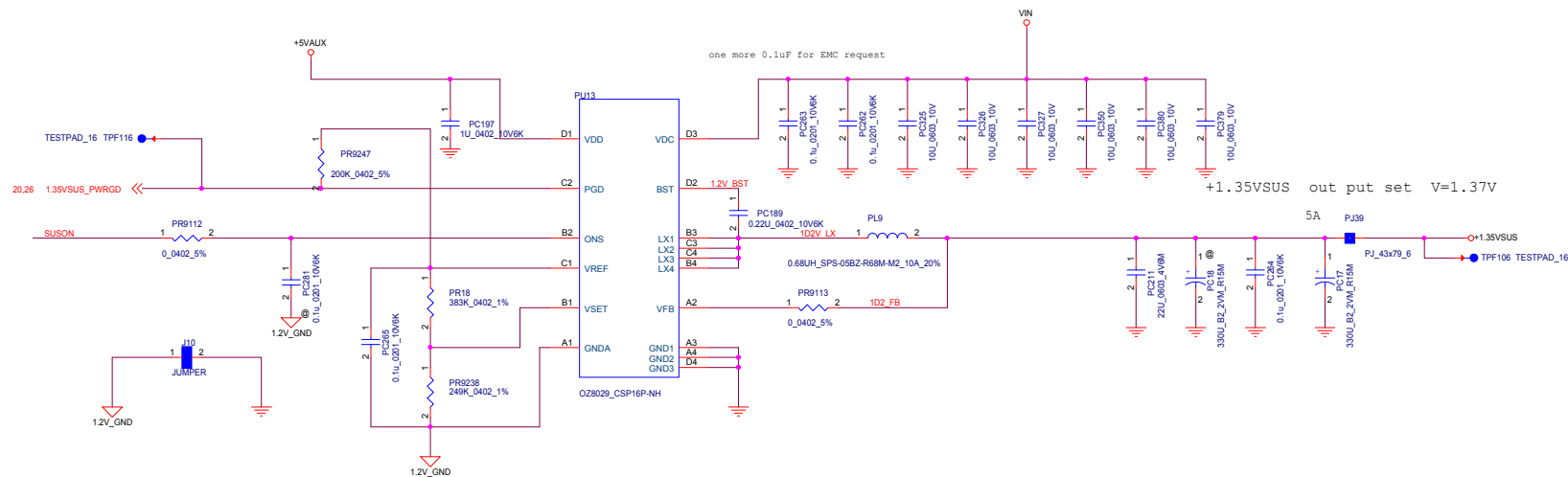


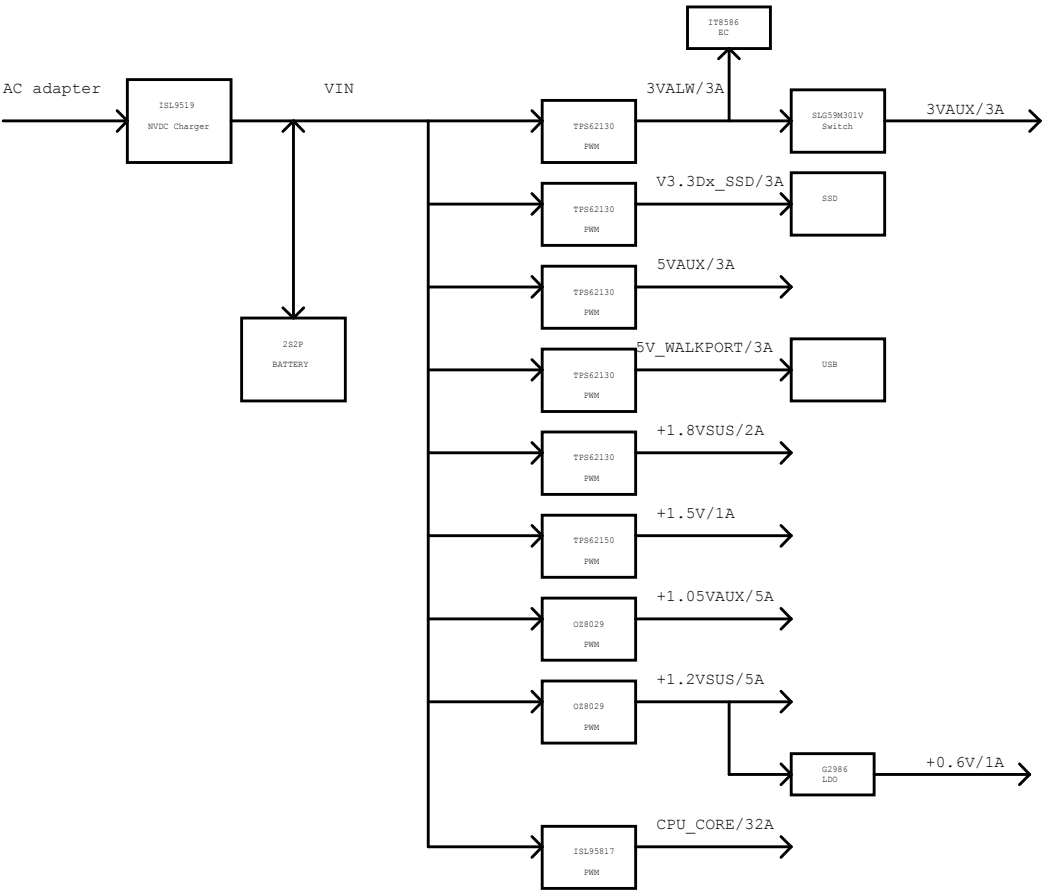




Title		
108VSUS105V		
Size	Document Number	Rev
C	Kona	V1.0
Date:	Tuesday, August 06, 2013	Sheet 26 of 34







	VCCRTC	VIN	+3VALW	+3VAUX +5VAUX +1.8VAUX	+1.35VSUS +0.68VSUS	+3V/+5V +1.0V/+1.05V +V1.05_VCCST COS3_VPE CPU_CORE
S0	V	V	V	V	V	V
S3	V	V	V	V	V	X
S4/S5 (AC)	V	V	V	V	X	X
S4/S5 (DC)	V	V	V	X	X	X
G3	V	X	X	X	X	X

	SUSC# (SLP_S4)	SUSB# (SLP_S3)	+VALW	+VAUX	+VSUS	+V
S0	V	V	V	V	V	V
S3	V	X	V	V	V	X
S4/S5 (AC)	X	X	V	V	X	X
S4/S5 (DC)	X	X	V	X	X	X
G3	X	X	X	X	X	X

TESTPAD_16 TPF47
TESTPAD_16 TPF46
TESTPAD_16 TPF48
TESTPAD_16 TPF50
TESTPAD_16 TPF49
TESTPAD_16 TPF51
TESTPAD_16 TPF53
TESTPAD_16 TPF52
TESTPAD_16 TPF54
TESTPAD_16 TPF55

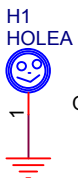
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TESTPAD_16 TPF56
TESTPAD_16 TPF58
TESTPAD_16 TPF60
TESTPAD_16 TPF59
TESTPAD_16 TPF61
TESTPAD_16 TPF63
TESTPAD_16 TPF62
TESTPAD_16 TPF64
TESTPAD_16 TPF65

TESTPAD_16 TPF67
TESTPAD_16 TPF66
TESTPAD_16 TPF68
TESTPAD_16 TPF70
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TESTPAD_16 TPF71
TESTPAD_16 TPF73
TESTPAD_16 TPF72
TESTPAD_16 TPF74
TESTPAD_16 TPF75

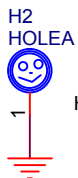
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TESTPAD_16 TPF76
TESTPAD_16 TPF78
TESTPAD_16 TPF80
TESTPAD_16 TPF79
TESTPAD_16 TPF81
TESTPAD_16 TPF83
TESTPAD_16 TPF82
TESTPAD_16 TPF84
TESTPAD_16 TPF85

Put these 20 test point to TOP

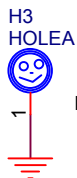
Put these 20 test point to Bottom



OVAL_Hole_22_55_SMD



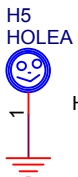
Hole_22_55_SMD_Half



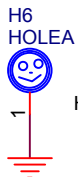
Hole_38_6_SMD



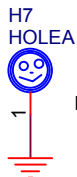
Hole_22_55_SMD



Hole_38_55_70_SMD



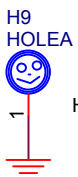
Hole_38_55_70_SMD



Hole_38_55_70_SMD



Hole_38_55_70_SMD




Hole_14_20_SMD



Hole_22_SMD



OVAL_Hole_14_18_SMD

联想

LENOVO.CRDN

Title

Mounting Hole/EMI

SizeA

Document NumberKona

Rev v1.0

Date:Tuesday, August 06, 2013

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