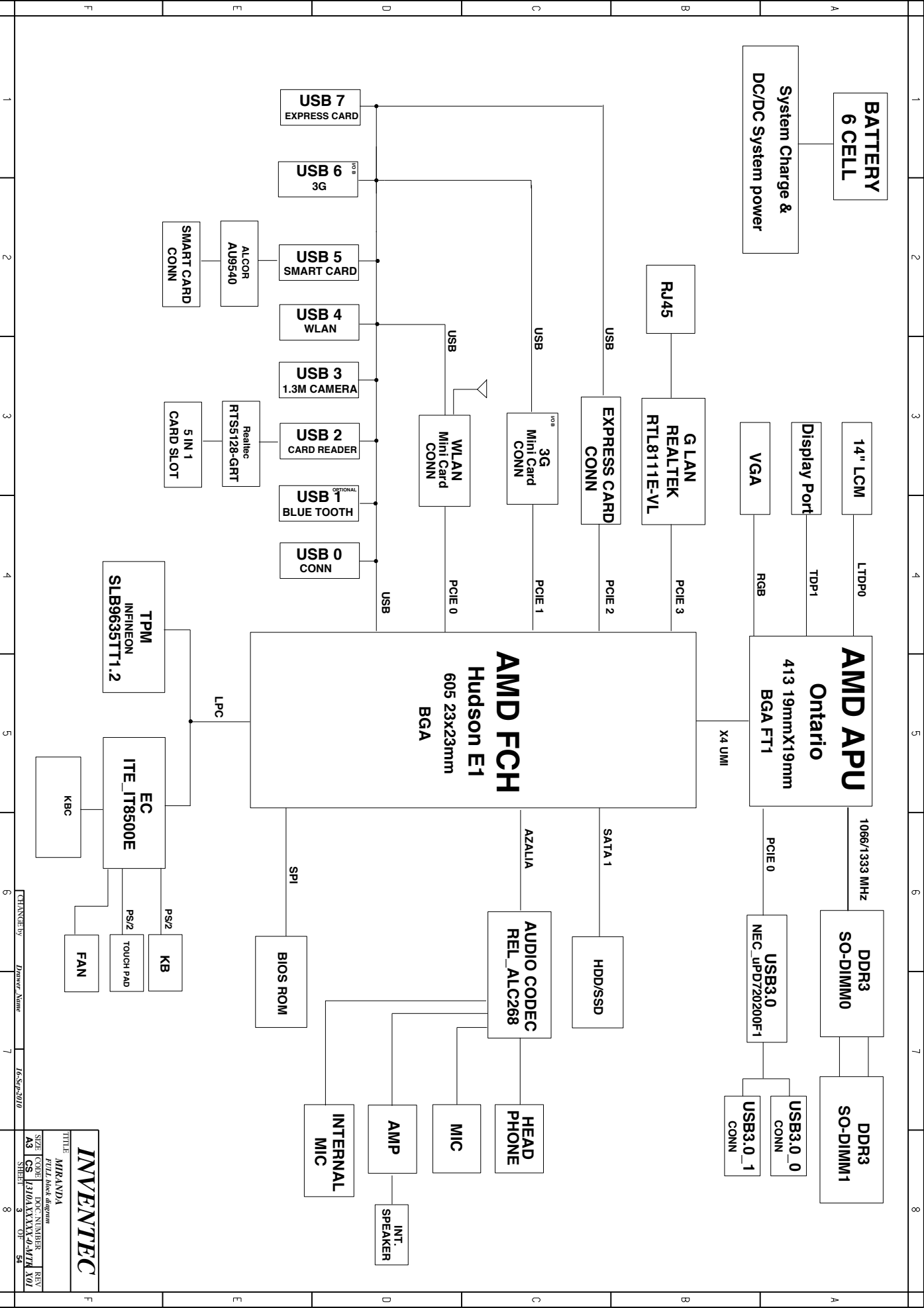
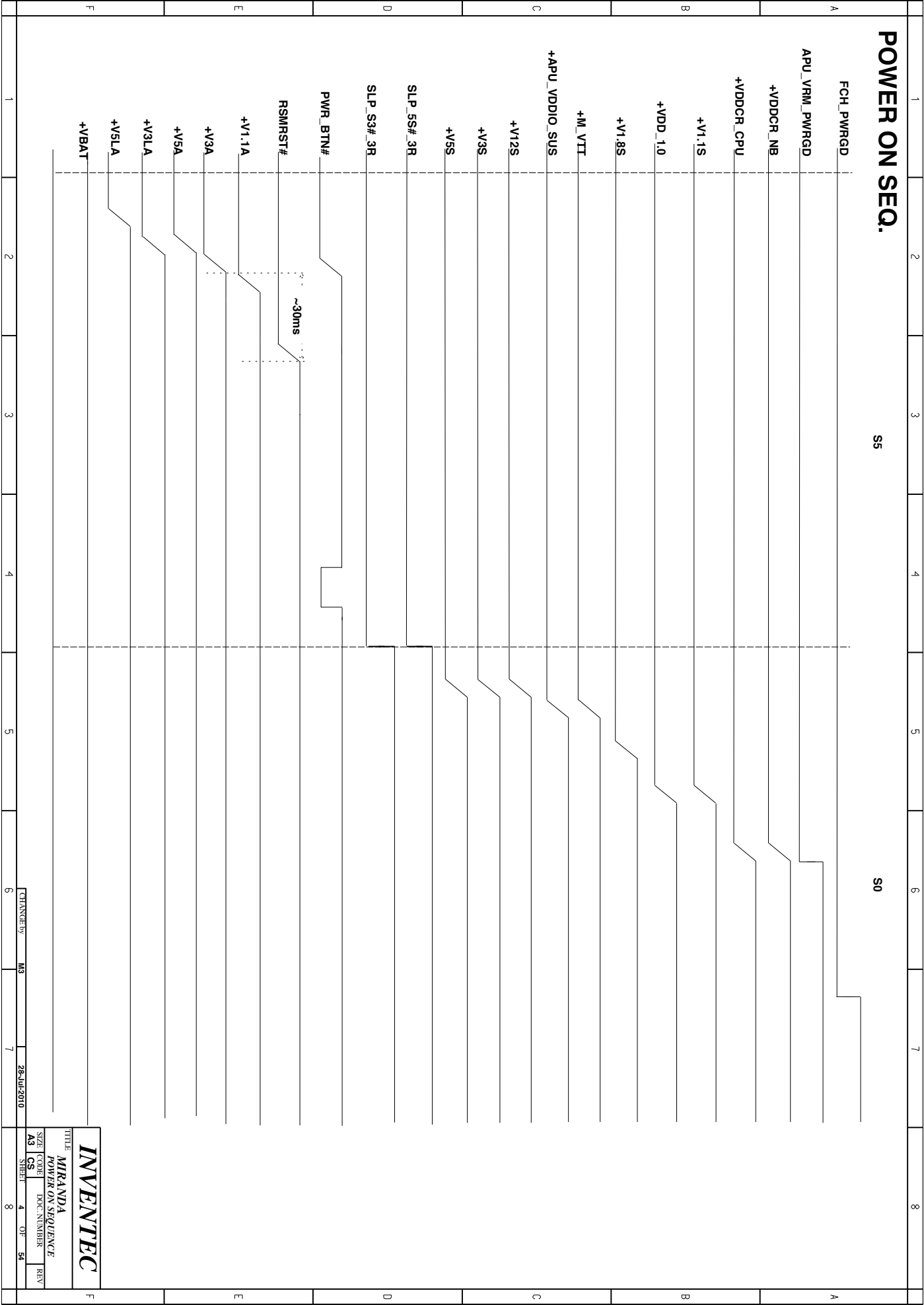


2010.09.17

INVENTEC			
DR/WR	SE	DATE	POWER
DESIGN			
CHECK			
RESPONSIBLE			
SPE = 1		YR.	
FILE NAME:	XXXX XXXXXX.XX		
PN:	XXXXXXXXXXXX		
TITLE			
MIRANDA			
COVER PAGE			
SIZE	CODE	SC NUMBER	REV
A3	CS	13101XXXXX-4-MIR	X01
SHEET	1 OF 54		

	1	2	3	4	5	6	7	8	
A	<div>TABLE OF CONTENTS</div>								A
B	<div>PAGE</div>								B
C	<div>PAGE</div>								C
D	<div>PAGE</div>								D
E	<div>PAGE</div>								E
F	<div>PAGE</div>								F
	1	2	3	4	5	6	7	8	
	<div>1. COVER PAGE</div>								
	<div>2. INDEX</div>								
	<div>3. BLOCK DIAGRAM</div>								
	<div>4. POWER ON SEQUENCE</div>								
	<div>5-13.RESERVE FOR SYSTEM POWER</div>								
	<div>14. APU FT1 1</div>								
	<div>15. APU FT1 2</div>								
	<div>16. APU FT1 3</div>								
	<div>17. APU FT1 4</div>								
	<div>18. DDR3-1</div>								
	<div>19. DDR3-2</div>								
	<div>20. FCH1</div>								
	<div>21. FCH2</div>								
	<div>22. FCH3</div>								
	<div>23. FCH4</div>								
	<div>24. STRAP OPTION / THERMAL / RTC</div>								
	<div>25. LCM</div>								
	<div>26. CRT</div>								
	<div>27. DP</div>								
	<div>28. WLAN / BT</div>								
	<div>29. TPM</div>								
	<div>30. SSD / HDD</div>								
	<div>31. IT8500E</div>								
	<div>32. KB/TP CONN</div>								
	<div>33. USB3.0 CONTROLLER</div>								
	<div>34. USB3.0 CONN</div>								
	<div>35. SIM CARD</div>								
	<div>36. EXPRESS CARD</div>								
	<div>37. FAN CONN</div>								
	<div>38. WIRE to BOARD CONN (MB SIDE)</div>								
	<div>I/O BOARD</div>								
	<div>39. CODEC REL_ALC268</div>								
	<div>40. AUDIO JACK</div>								
	<div>41. AMP / INT. SPEAKER</div>								
	<div>42. WWAN</div>								
	<div>43. SMART CARD AU9540</div>								
	<div>44. CARD READER</div>								
	<div>45. GIGA LAN</div>								
	<div>46. RJ45</div>								
	<div>47. USB CONN</div>								
	<div>48. WIRE to BOARD CONN (I/O/B SIDE)</div>								
	<div>TP BOARD</div>								
	<div>49. TP / HALL-SENSOR</div>								
	<div>POWER BOARD</div>								
	<div>50. POWER SW</div>								
	<div>INVENTEC</div>								
	<div>MIRANDA</div>								
	<div>SIZE CODE</div>								
	<div>CS 1310AXXX4-MIRX01</div>								
	<div>Sheet 2 of 54</div>								
	<div>CHANGED BY</div>								
	<div>Drawn Name</div>								
	<div>17-Sep-2010</div>								





Power Block Diagram

	1	2	3	4	5	6	7	8		A
A										A
B										B
C										C
D										D
E										E
F										F
	1	2	3	4	5	6	7	8		

CHANGED BY MS 3-Aug-2010

INVENTEC

TITLE MIRANDA

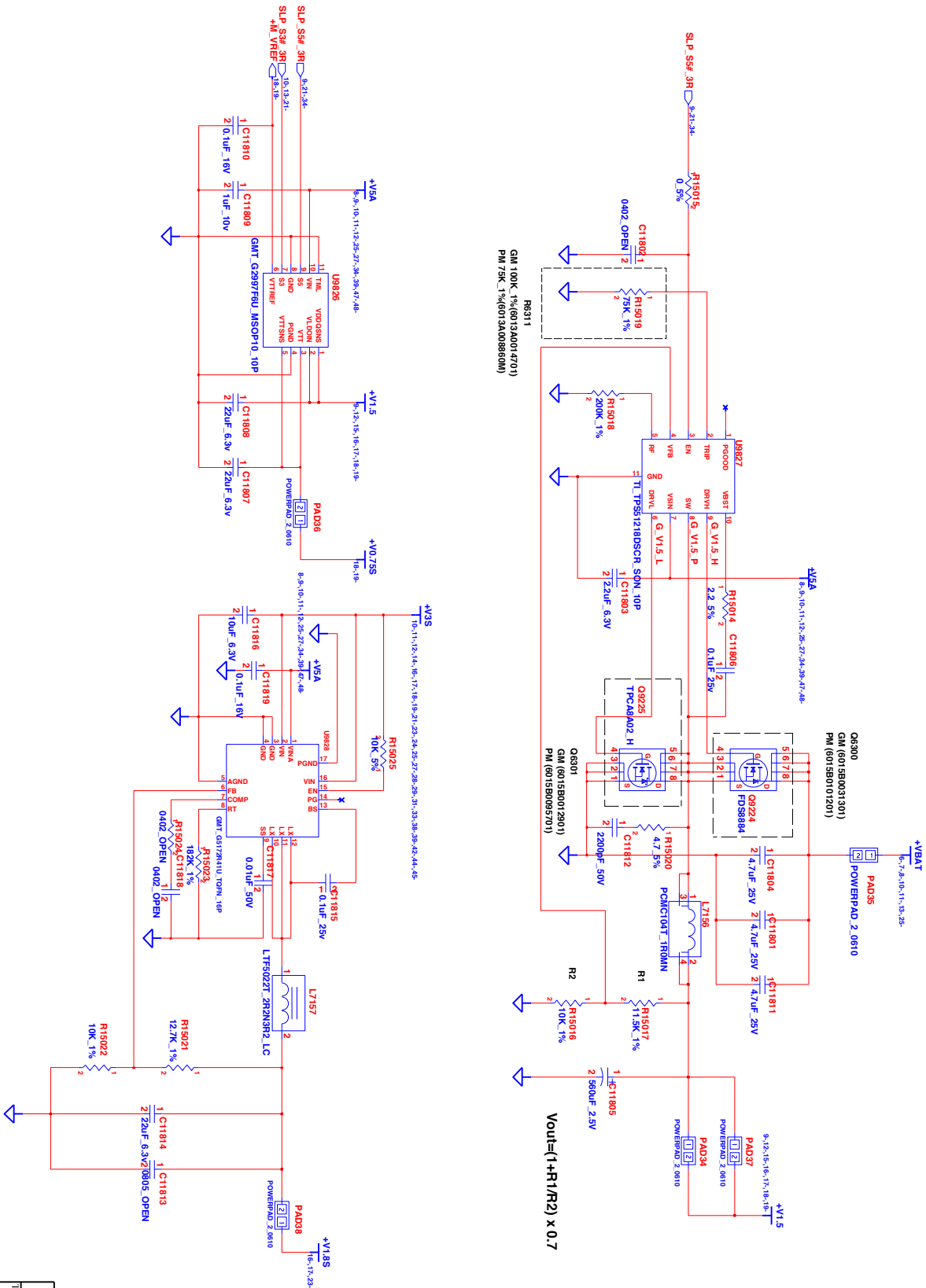
SIZE CODE POWER

AS CS

SHEET 5 OF 54



+V1.8S +V0.75S +V1.5



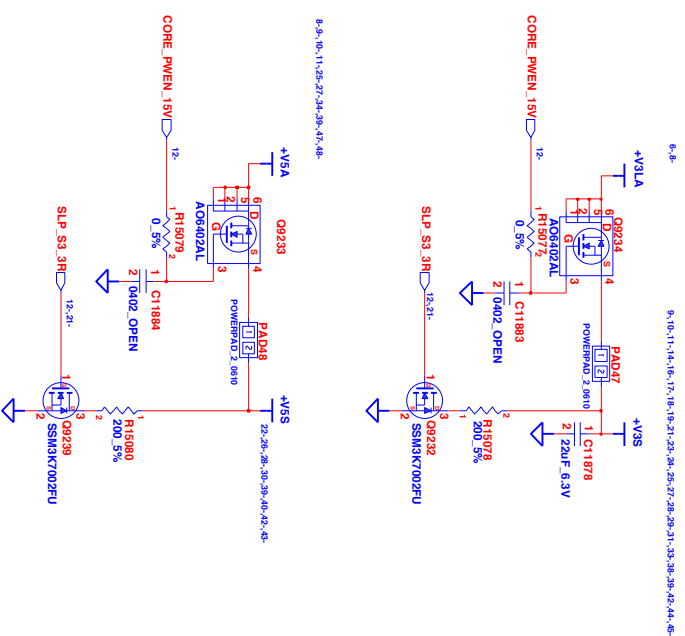
INVENTEC
MIRANDA
POWER

SIZE CODE
A3 CS
REV

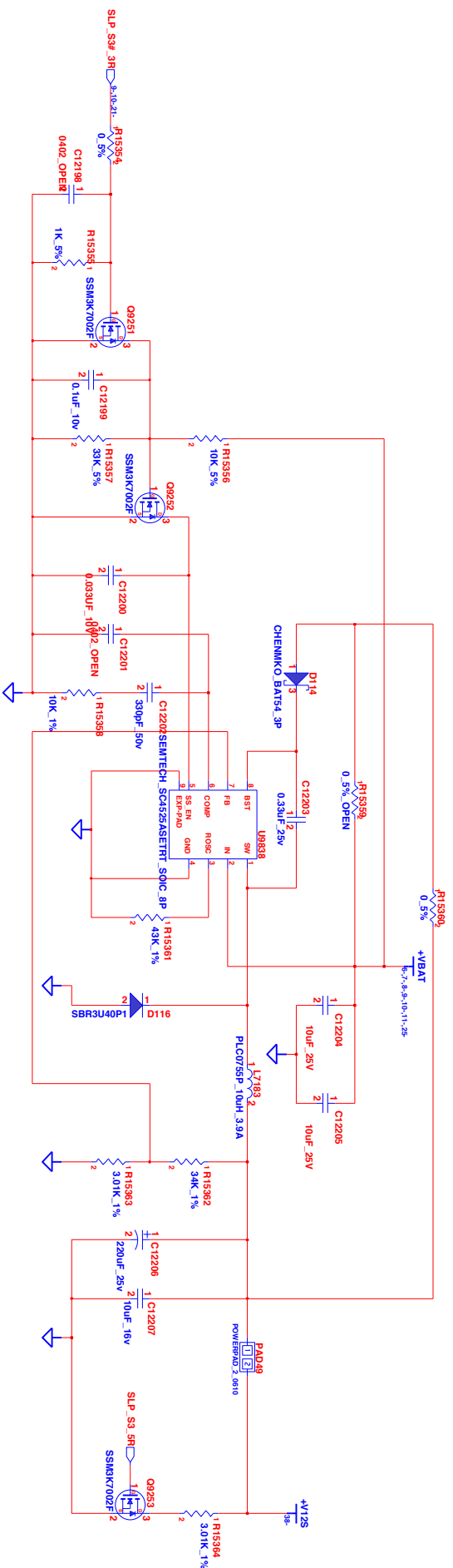
DOC:NUMBER
REV

8 OF 54



[illegible]

+V12



INVENTEC

MIRANDA

POWER

SIZE CODE: A3 CS1
DOC: NUMBER: 13 OF 54
REV: 54

[illegible]

PLACE ALL THE DECOUPLING CAPS ON THIS SHEET CLOSE TO SB AS POSSIBLE

U9811-3

HUDSON-1

PART 3 OF 5

+V1.1S

U9811-4

HUDSON-1

PART 5 OF 5

GROUND

GROUND

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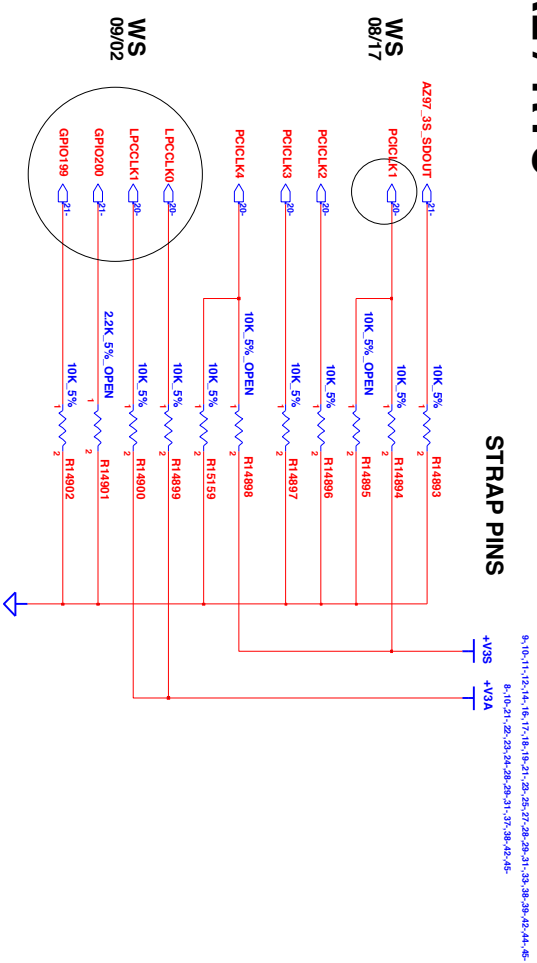
GROUND

GROUND

GROUND

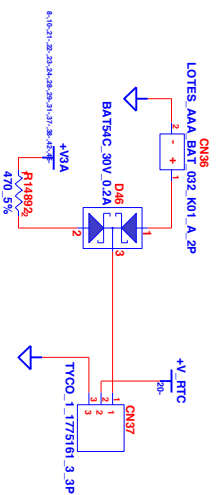
GROUND

STRAP OPTION / THERMAL / RTC

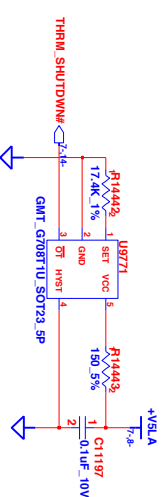


	AZ57_SS_SPDOUT	PCI CLK1	PCI CLK2	PCI CLK3	PCI CLK4	LPCLK0	LPCLK1	GPIO200 EC_PWM3	GPIO199 EC_PWM2
PULL HIGH	Low Power Mode (Not Supported)	Allow PCIe Gen2 (Default)	Watchdog Timer Enabled (Not Supported)	Debug STRAP Enabled	Non-FUSION CLOCK Mode	Integrated Micro-Controller Enabled (Default)	Internal Clock Generator Enabled (Default)	H-H= Reserved H-L= SPI ROM (Default)	
PULL LOW	Performance Mode (Default)	Force PCIe Gen1	Watchdog Timer Disabled (Default)	Debug STRAP Disabled (Default)	FUSION CLOCK Mode (Default)	Integrated Micro-Controller Disabled	Internal Clock Generator Disabled	L-H= LPC ROM L-L= Reserved	

RTC



Thermal Sensor



[illegible]

CART

TITLE		M3	
SIZE CODE	DOC NUMBER	REV	
A3	CS	28 OF 54	
SYNTH		28 OF 54	



9,10,11,12,14,16,17,18,19,21,23,24,25,27,28,29,31,33,38,39,42,44,45

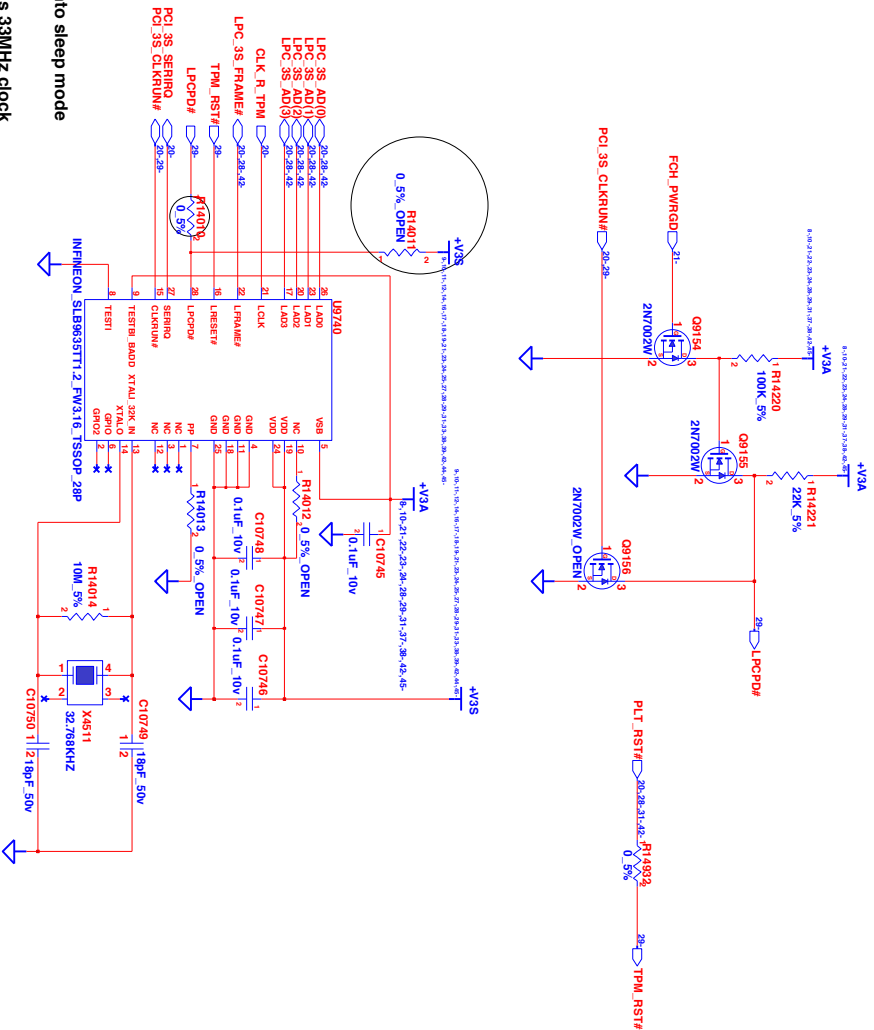


28

INVENTEC

TPM

LPC_PWRDWN_L is used to force LPC peripherals to go into sleep mode
Device may require that this be asserted before entering S3
Device may require that this be asserted before stopping this 33MHz clock



INVENTEC

MIRANDA

TPM

SIZE CODE A3 CS

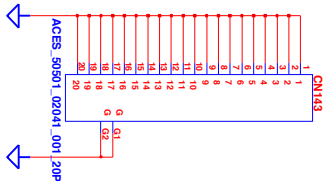
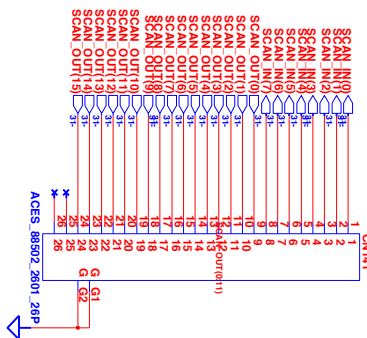
SHR1

29 OF 54

[illegible]

KB / TP / LED

Keyboard Conn.



INVENTEC

TITLE
MIRANDA

SIZE CODE
A3 CS

DOC NUMBER
32 OF 54

CHANGED BY

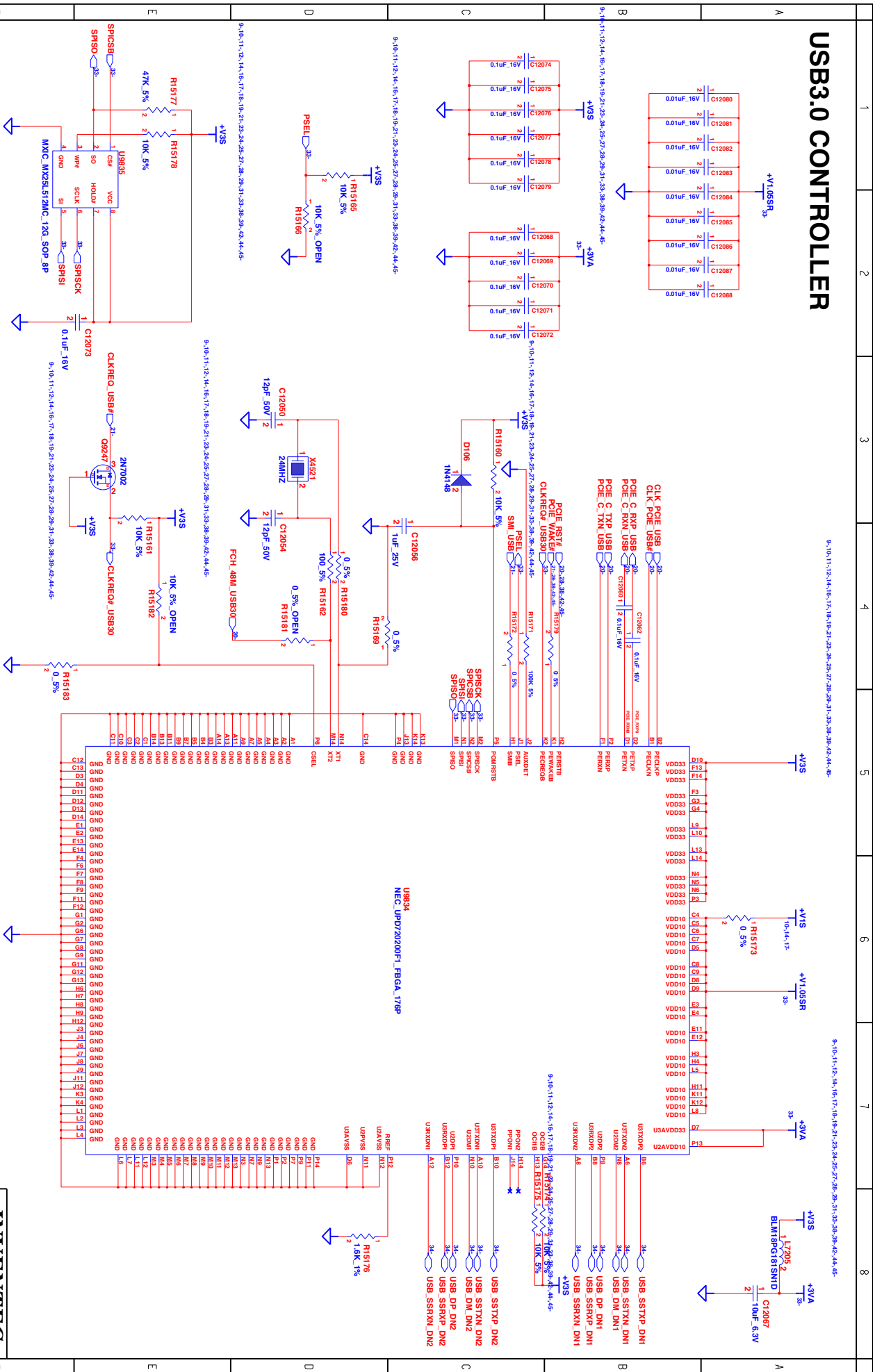
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14-Sep-2010

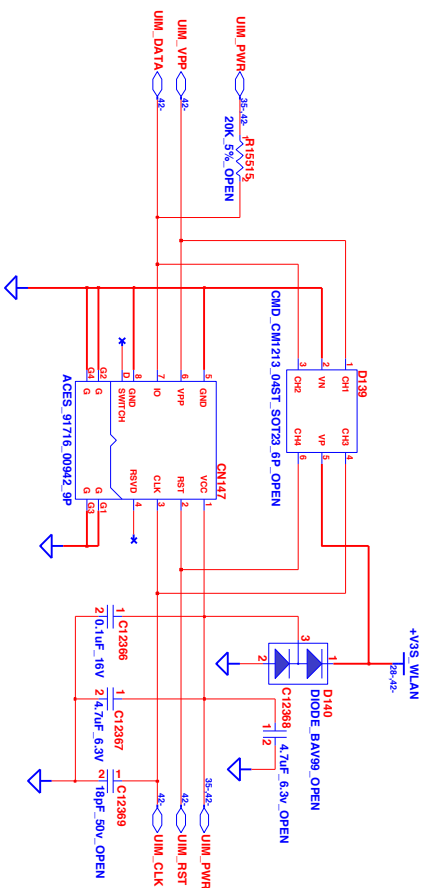
7

8

USB3.0 CONTROLLER



SIM CARD



CHANGED by MIRANDA 11-Sep-2010

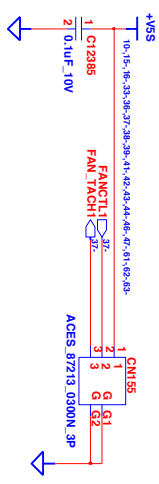
INVENTEC
MIRANDA

SIZE CODE DOC:NUMBER REV
A3 CS 35 OF 54

EXPRESS CARD

The schematic diagram illustrates the electrical connections for the EXPRESS CARD. It features several power planes: +V3A, +V3A_EXP, +V1.5S, and +V1.5S_EXP. Key components include capacitors (C12374, C12376, C12377, C12378, C12379, C12380, C12381, C12382, C12383, C12384) and resistors (R15519, R15520, R15521, R15522, R15523, R15524, R15525, R15526, R15527, R15528, R15529, R15530, R15531, R15532, R15533, R15534, R15535, R15536, R15537, R15538, R15539, R15540, R15541, R15542, R15543, R15544, R15545, R15546, R15547, R15548, R15549, R15550, R15551, R15552, R15553, R15554, R15555, R15556, R15557, R15558, R15559, R15560, R15561, R15562, R15563, R15564, R15565, R15566, R15567, R15568, R15569, R15570, R15571, R15572, R15573, R15574, R15575, R15576, R15577, R15578, R15579, R15580, R15581, R15582, R15583, R15584, R15585, R15586, R15587, R15588, R15589, R15590, R15591, R15592, R15593, R15594, R15595, R15596, R15597, R15598, R15599, R15600, R15601, R15602, R15603, R15604, R15605, R15606, R15607, R15608, R15609, R15610, R15611, R15612, R15613, R15614, R15615, R15616, R15617, R15618, R15619, R15620, R15621, R15622, R15623, R15624, R15625, R15626, R15627, R15628, R15629, R15630, R15631, R15632, R15633, R15634, R15635, R15636, R15637, R15638, R15639, R15640, R15641, R15642, R15643, R15644, R15645, R15646, R15647, R15648, R15649, R15650, R15651, R15652, R15653, R15654, R15655, R15656, R15657, R15658, R15659, R15660, R15661, R15662, R15663, R15664, R15665, R15666, R15667, R15668, R15669, R15670, R15671, R15672, R15673, R15674, R15675, R15676, R15677, R15678, R15679, R15680, R15681, R15682, R15683, R15684, R15685, R15686, R15687, R15688, R15689, R15690, R15691, R15692, R15693, R15694, R15695, R15696, R15697, R15698, R15699, R15700, R15701, R15702, R15703, R15704, R15705, R15706, R15707, R15708, R15709, R15710, R15711, R15712, R15713, R15714, R15715, R15716, R15717, R15718, R15719, R15720, R15721, R15722, R15723, R15724, R15725, R15726, R15727, R15728, R15729, R15730, R15731, R15732, R15733, R15734, R15735, R15736, R15737, R15738, R15739, R15740, R15741, R15742, R15743, R15744, R15745, R15746, R15747, R15748, R15749, R15750, R15751, R15752, R15753, R15754, R15755, R15756, R15757, R15758, R15759, R15760, R15761, R15762, R15763, R15764, R15765, R15766, R15767, R15768, R15769, R15770, R15771, R15772, R15773, R15774, R15775, R15776, R15777, R15778, R15779, R15780, R15781, R15782, R15783, R15784, R15785, R15786, R15787, R15788, R15789, R15790, R15791, R15792, R15793, R15794, R15795, R15796, R15797, R15798, R15799, R15800, R15801, R15802, R15803, R15804, R15805, R15806, R15807, R15808, R15809, R15810, R15811, R15812, R15813, R15814, R15815, R15816, R15817, R15818, R15819, R15820, R15821, R15822, R15823, R15824, R15825, R15826, R15827, R15828, R15829, R15830, R15831, R15832, R15833, R15834, R15835, R15836, R15837, R15838, R15839, R15840, R15841, R15842, R15843, R15844, R15845, R15846, R15847, R15848, R15849, R15850, R15851, R15852, R15853, R15854, R15855, R15856, R15857, R15858, R15859, R15860, R15861, R15862, R15863, R15864, R15865, R15866, R15867, R15868, R15869, R15870, R15871, R15872, R15873, R15874, R15875, R15876, R15877, R15878, R15879, R15880, R15881, R15882, R15883, R15884, R15885, R15886, R15887, R15888, R15889, R15890, R15891, R15892, R15893, R15894, R15895, R15896, R15897, R15898, R15899, R15900, R15901, R15902, R15903, R15904, R15905, R15906, R15907, R15908, R15909, R15910, R15911, R15912, R15913, R15914, R15915, R15916, R15917, R15918, R15919, R15920, R15921, R15922, R15923, R15924, R15925, R15926, R15927, R15928, R15929, R15930, R15931, R15932, R15933, R15934, R15935, R15936, R15937, R15938, R15939, R15940, R15941, R15942, R15943, R15944, R15945, R15946, R15947, R15948, R15949, R15950, R15951, R15952, R15953, R15954, R15955, R15956, R15957, R15958, R15959, R15960, R15961, R15962, R15963, R15964, R15965, R15966, R15967, R15968, R15969, R15970, R15971, R15972, R15973, R15974, R15975, R15976, R15977, R15978, R15979, R15980, R15981, R15982, R15983, R15984, R15985, R15986, R15987, R15988, R15989, R15990, R15991, R15992, R15993, R15994, R15995, R15996, R15997, R15998, R15999, R16000, R16001, R16002, R16003, R16004, R16005, R16006, R16007, R16008, R16009, R16010, R16011, R16012, R16013, R16014, R16015, R16016, R16017, R16018, R16019, R16020, R16021, R16022, R16023, R16024, R16025, R16026, R16027, R16028, R16029, R16030, R16031, R16032, R16033, R16034, R16035, R16036, R16037, R16038, R16039, R16040, R16041, R16042, R16043, R16044, R16045, R16046, R16047, R16048, R16049, R16050, R16051, R16052, R16053, R16054, R16055, R16056, R16057, R16058, R16059, R16060, R16061, R1

FAN CONN

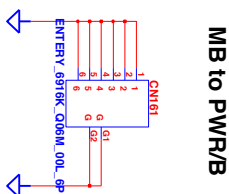
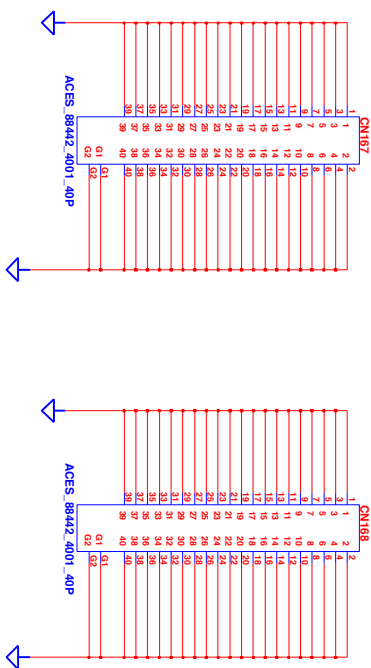


INVENTEC

TITLE
MIRANDA
AUDIO JACK / POWER SW
SIZE CODE
A3 CS
SHEET 37 OF 64

CHANGED by
MIRANDA
7
2-Sep-2010

WIRE to BOARD CONN (MB SIDE)



INVENTEC

TITLE
MIRANDA

SIZE CODE
AS CS

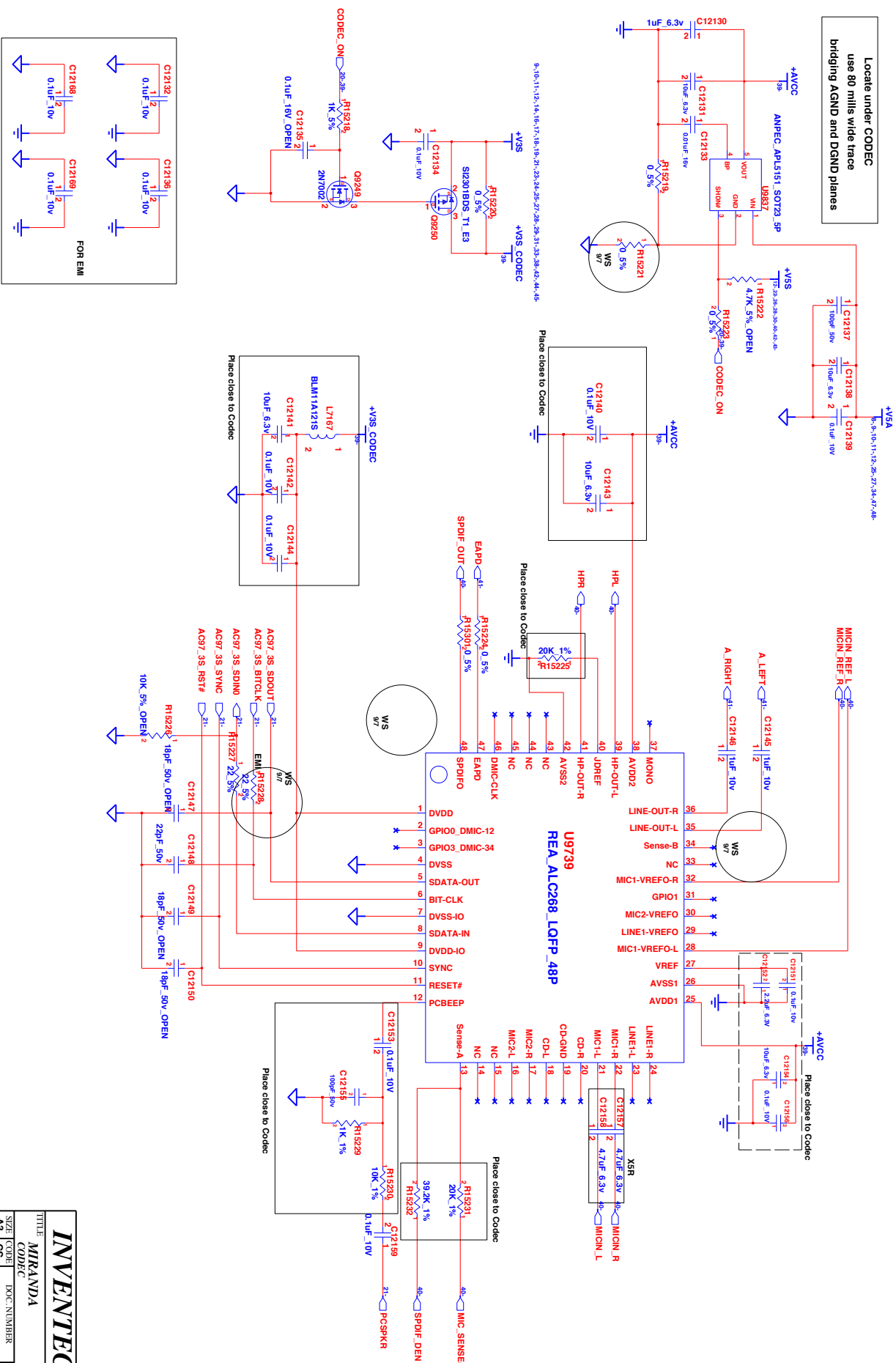
DOC NUMBER
38

REV
54

CHANGED by
MIRANDA

CODEC

**Locate under CODEC
use 80 mils wide trace
bridging AGND and DGND planes**

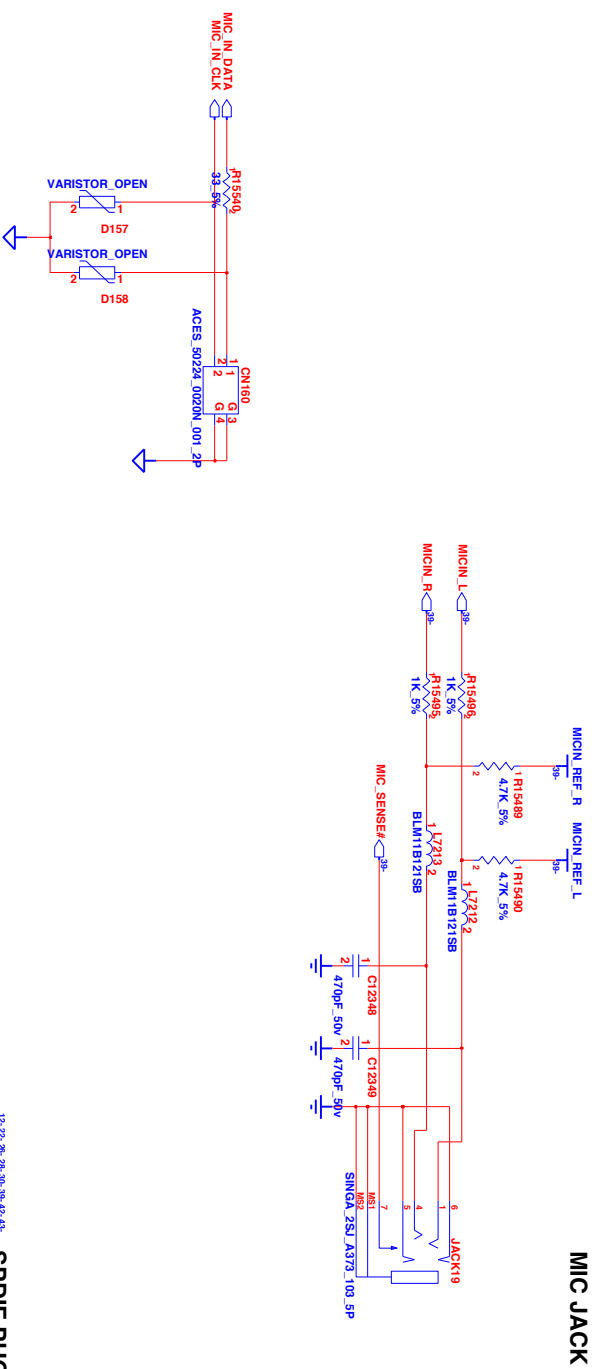
**INVENTEC**

MIRANDA

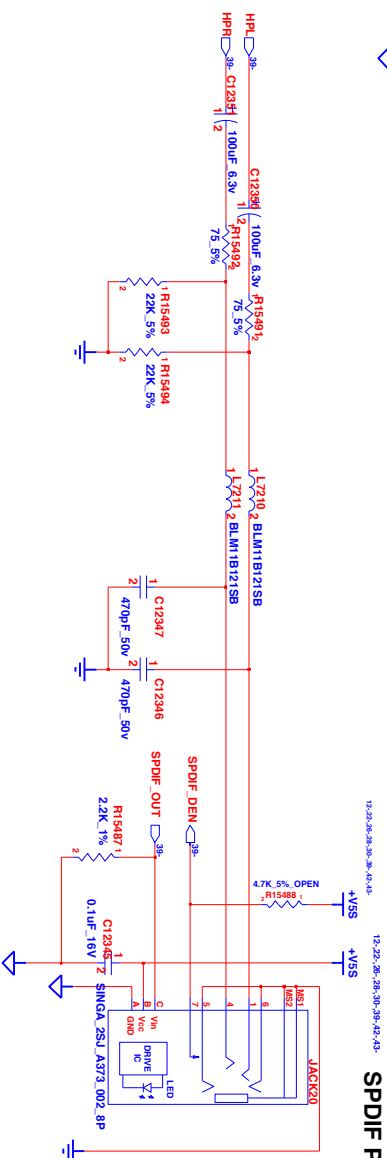
SIZE	CODE	DOC. NUMBER	REV
A3	CS		

AC CS SHEET 39 OF 54

AUDIO JACK



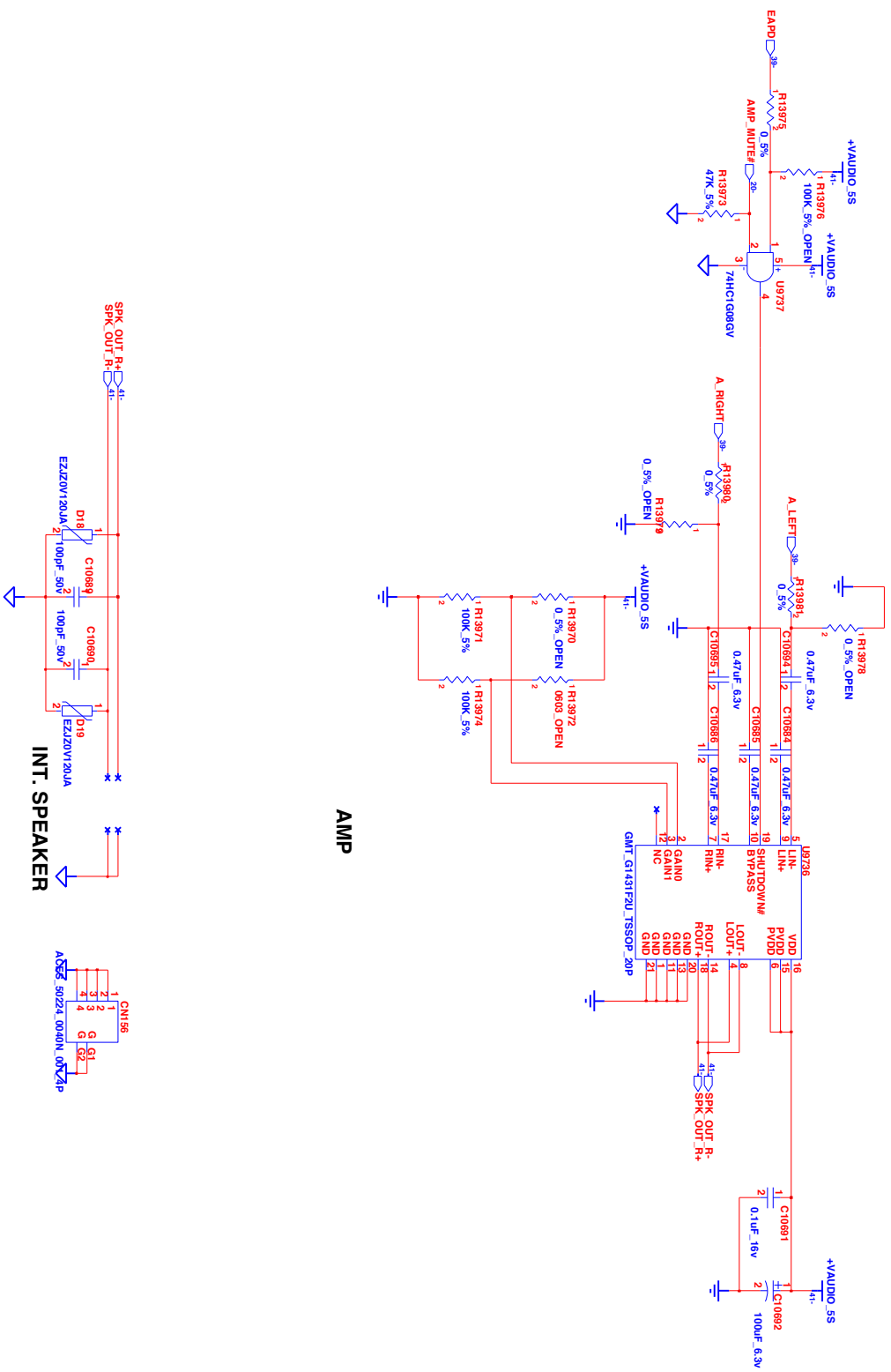
SPDIF PHONE JACK



<i>INVENTEC</i>			
TITLE <i>M3</i>			
<i>AUDIO JACK</i>			
SIZE	CODE	DOC. NUMBER	REV
A3	CS		
SHEET		40	OF 54
		8	

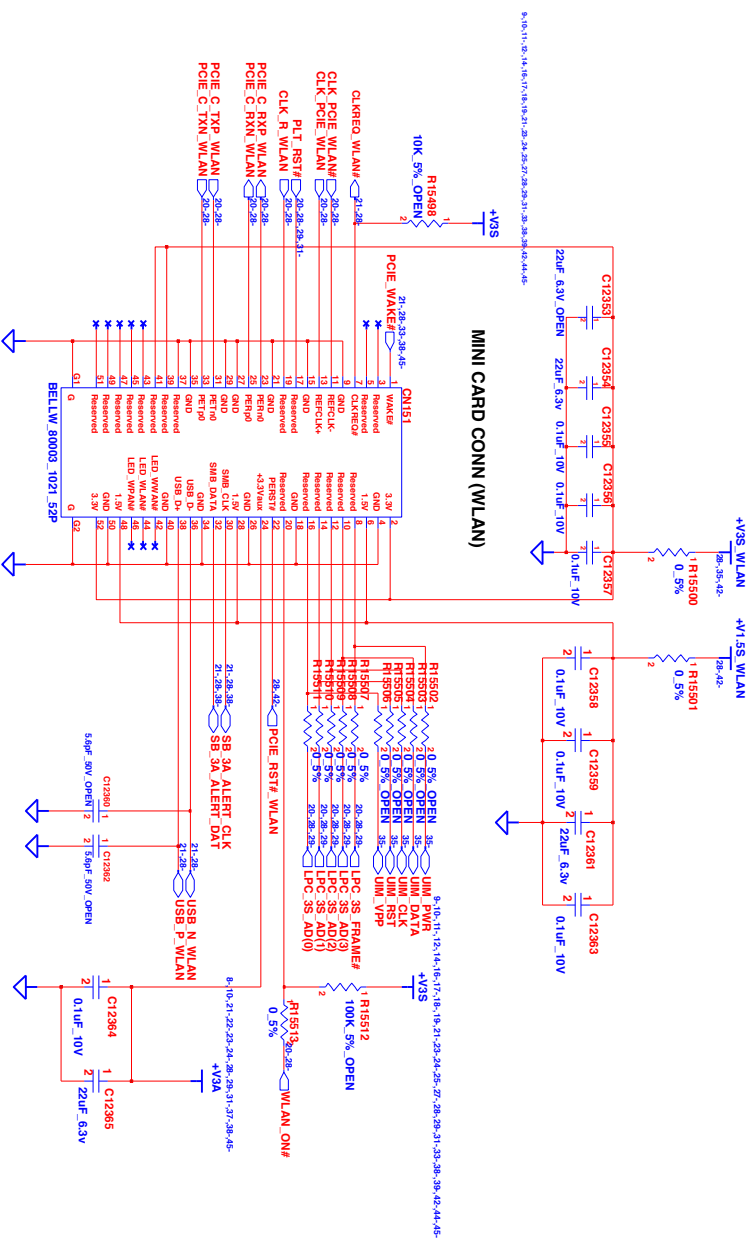
AMP / SPEAKER

EAPD when output high, turn on OP
EAPD when output low, turn off OP



CHANGE by	M3	23-Jun-2010
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<i>INVENTEC</i>			
TITLE			
MIRANDA			
AMPS/SPK/ECR			
SIZE	CODE	DOC. NUMBER	REV
A3	CS		
SHEET	41	OF	54

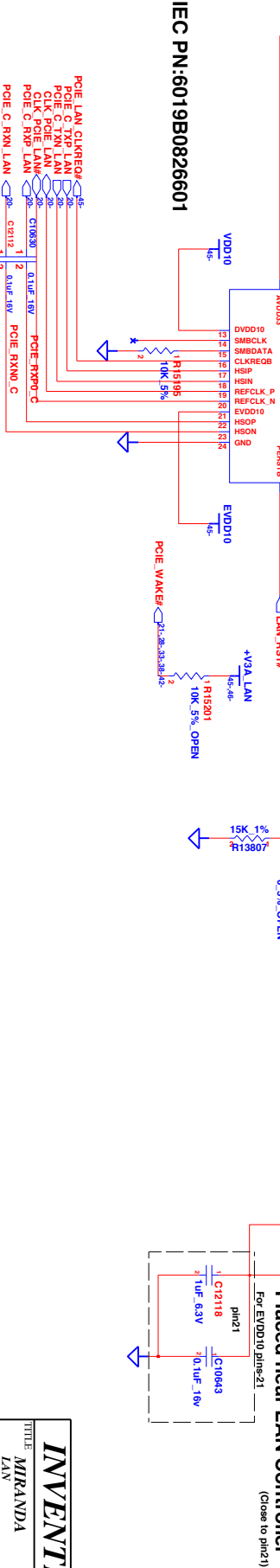
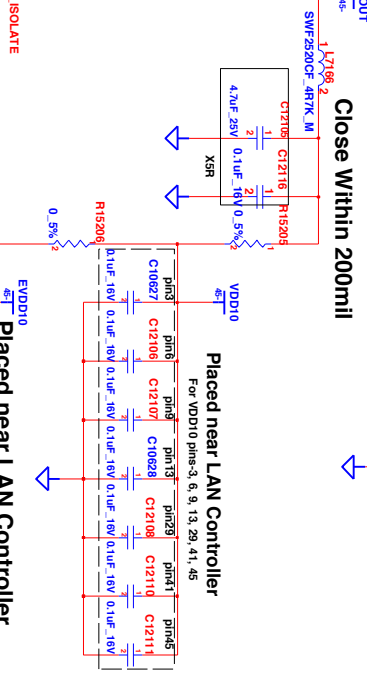


CHANGE by	MIRANDA	16-Sep-2010
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INVENTEC

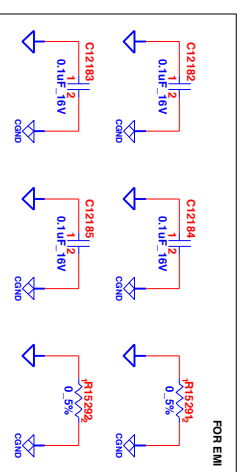
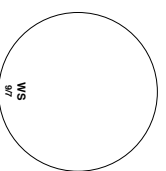
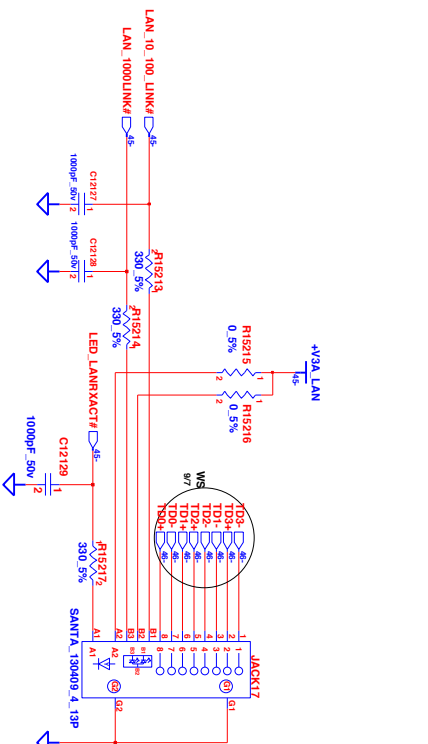
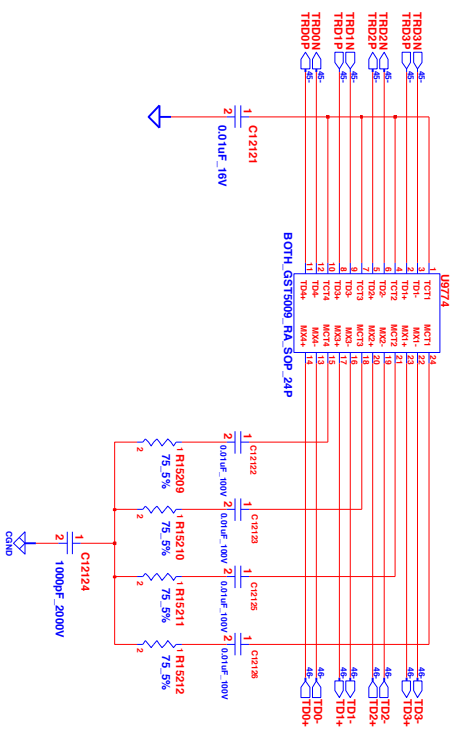
[illegible]

8



<i>INVENTEC</i>			
TITLE			
<i>MIRANDA</i>			
<i>LAN</i>			
SIZE	CODE	DOC. NUMBER	REV
A3	CS		
SHEET	45	OF	54

RJ45



INVENTEC

TITLE: **MIRANDA**

SIZE: **RJ45/DUAL USB**

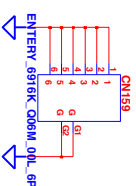
REV: **A3**

DATE: **20-JUL-2010**

SHEET: **48** OF **54**

The diagram illustrates the internal circuitry of a USB connector. It features a USB Type-A plug on the left, with pins 1 through 4 labeled: USB_N_P4, USB_P_P4, USB_L_N_P4, and USB_L_P_P4. The internal circuit includes a USB_VCC4 section with a USB_VCC4 pin, a USB_VCC4 pin, and a USB_VCC4 pin. It also includes a USB_VCC4 section with a USB_VCC4 pin, a USB_VCC4 pin, and a USB_VCC4 pin. The diagram shows various components such as resistors (R15481, R15482, R15480, R15483, R15484, R15485, R15486, R15487, R15488, R15489, R15490, R15491, R15492, R15493, R15494, R15495, R15496, R15497, R15498, R15499, R15500, R15501, R15502, R15503, R15504, R15505, R15506, R15507, R15508, R15509, R15510, R15511, R15512, R15513, R15514, R15515, R15516, R15517, R15518, R15519, R15520, R15521, R15522, R15523, R15524, R15525, R15526, R15527, R15528, R15529, R15530, R15531, R15532, R15533, R15534, R15535, R15536, R15537, R15538, R15539, R15540, R15541, R15542, R15543, R15544, R15545, R15546, R15547, R15548, R15549, R15550, R15551, R15552, R15553, R15554, R15555, R15556, R15557, R15558, R15559, R15560, R15561, R15562, R15563, R15564, R15565, R15566, R15567, R15568, R15569, R15570, R15571, R15572, R15573, R15574, R15575, R15576, R15577, R15578, R15579, R15580, R15581, R15582, R15583, R15584, R15585, R15586, R15587, R15588, R15589, R15590, R15591, R15592, R15593, R15594, R15595, R15596, R15597, R15598, R15599, R15600, R15601, R15602, R15603, R15604, R15605, R15606, R15607, R15608, R15609, R15610, R15611, R15612, R15613, R15614, R15615, R15616, R15617, R15618, R15619, R15620, R15621, R15622, R15623, R15624, R15625, R15626, R15627, R15628, R15629, R15630, R15631, R15632, R15633, R15634, R15635, R15636, R15637, R15638, R15639, R15640, R15641, R15642, R15643, R15644, R15645, R15646, R15647, R15648, R15649, R15650, R15651, R15652, R15653, R15654, R15655, R15656, R15657, R15658, R15659, R15660, R15661, R15662, R15663, R15664, R15665, R15666, R15667, R15668, R15669, R15670, R15671, R15672, R15673, R15674, R15675, R15676, R15677, R15678, R15679, R15680, R15681, R15682, R15683, R15684, R15685, R15686, R15687, R15688, R15689, R15690, R15691, R15692, R15693, R15694, R15695, R15696, R15697, R15698, R15699, R15700, R15701, R15702, R15703, R15704, R15705, R15706, R15707, R15708, R15709, R15710, R15711, R15712, R15713, R15714, R15715, R15716, R15717, R15718, R15719, R15720, R15721, R15722, R15723, R15724, R15725, R15726, R15727, R15728, R15729, R15730, R15731, R15732, R15733, R15734, R15735, R15736, R15737, R15738, R15739, R15740, R15741, R15742, R15743, R15744, R15745, R15746, R15747, R15748, R15749, R15750, R15751, R15752, R15753, R15754, R15755, R15756, R15757, R15758, R15759, R15760, R15761, R15762, R15763, R15764, R15765, R15766, R15767, R15768, R15769, R15770, R15771, R15772, R15773, R15774, R15775, R15776, R15777, R15778, R15779, R15780, R15781, R15782, R15783, R15784, R15785, R15786, R15787, R15788, R15789, R15790, R15791, R15792, R15793, R15794, R15795, R15796, R15797, R15798, R15799, R15800, R15801, R15802, R15803, R15804, R15805, R15806, R15807, R15808, R15809, R15810, R15811, R15812, R15813, R15814, R15815, R15816, R15817, R15818, R15819, R15820, R15821, R15822, R15823, R15824, R15825, R15826, R15827, R15828, R15829, R15830, R15831, R15832, R15833, R15834, R15835, R15836, R15837, R15838, R15839, R15840, R15841, R15842, R15843, R15844, R15845, R15846, R15847, R15848, R15849, R15850, R15851, R15852, R15853, R15854, R15855, R15856, R15857, R15858, R15859, R15860, R15861, R15862, R15863, R15864, R15865, R15866, R15867, R15868, R15869, R15870, R15871, R15872, R15873, R15874, R15875, R15876, R15877, R15878, R15879, R15880, R15881, R15882, R15883, R15884, R15885, R15886, R15887, R15888, R15889, R15890, R15891, R15892, R15893, R15894, R15895, R15896, R15897, R15898, R15899, R15900, R15901, R15902, R15903, R15904, R15905, R15906, R15907, R15908, R15909, R15910, R15911, R15912, R15913, R15914, R15915, R15916, R15917, R15918, R15919, R15920, R15921, R15922, R15923, R15924, R15925, R15926, R15927, R15928, R15929, R15930, R15931, R15932, R15933, R15934, R15935, R15936, R15937, R15938, R15939, R15940, R15941, R15942, R15943, R15944, R15945, R15946, R15947, R15948, R15949, R15950, R15951, R15952, R15953, R15954, R15955, R15956, R15957, R15958, R15959, R15960, R15961, R15962, R15963, R15964, R15965, R15966, R15967, R15968, R15969, R15970, R15971, R15972, R15973, R15974, R15975, R15976, R15977, R15978, R15979, R15980, R15981, R15982, R15983, R15984, R15985, R15986, R15987, R15988, R15989, R15990, R15991, R15992, R15993, R15994, R15995, R15996, R15997, R15998, R15999, R16000, R16001, R16002, R16003, R16004, R16005, R16006, R16007, R16008, R16009, R16010, R16011, R16012, R16013, R16014, R16015, R16016, R16017, R16018, R16019, R16020, R16021, R16022, R16023, R16024, R16025, R16026, R16027, R16028, R16029, R16030, R16031, R16032, R16033, R16034, R16035, R16036, R16037

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