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BIXBY 2.0

PV BUILD

2009-09-22

2009/04/01	2009-ECO-005677	D
2009/03/30	2009-ECO-005373	C
2009/03/27	2009-ECO-005259	B
2009/03/23	2009-ECO-004754	A
DATE	CHANGE NO.	REV

	EE	DATE	POWER	DATE	INVENTEC TITLE BIXBY-MB
DRAWER	Chang, Irene	2009-APR-03	Ho, Wen-Pin	2009-APR-03	
DESIGN	Wu, Bruce	2009-APR-03	Ho, Wen-Pin	2009-APR-03	
CHECK	Wu, Bruce	2009-APR-03	Ho, Wen-Pin	2009-APR-03	
RESPONSIBLE	Wu, Bruce	2009-APR-03	Ho, Wen-Pin	2009-APR-03	
SIZE = 3 FILE NAME : BIXBY-6050A2262301-MB-A03-35 P/N : 6050A2215101					SIZE CODE DOC. NUMBER REV A3 CS 1310A22623-0-MTR A
VER: A03					
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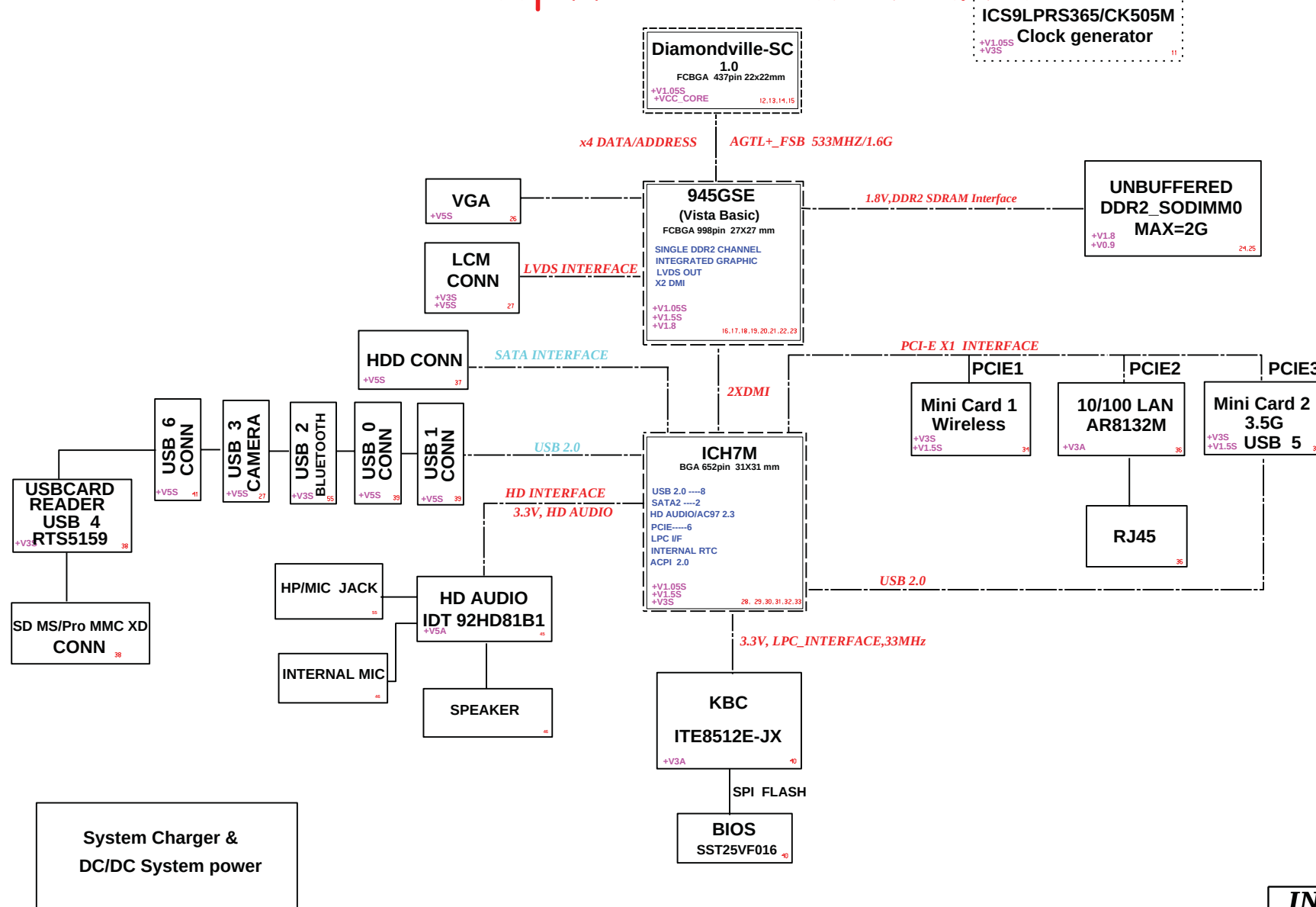
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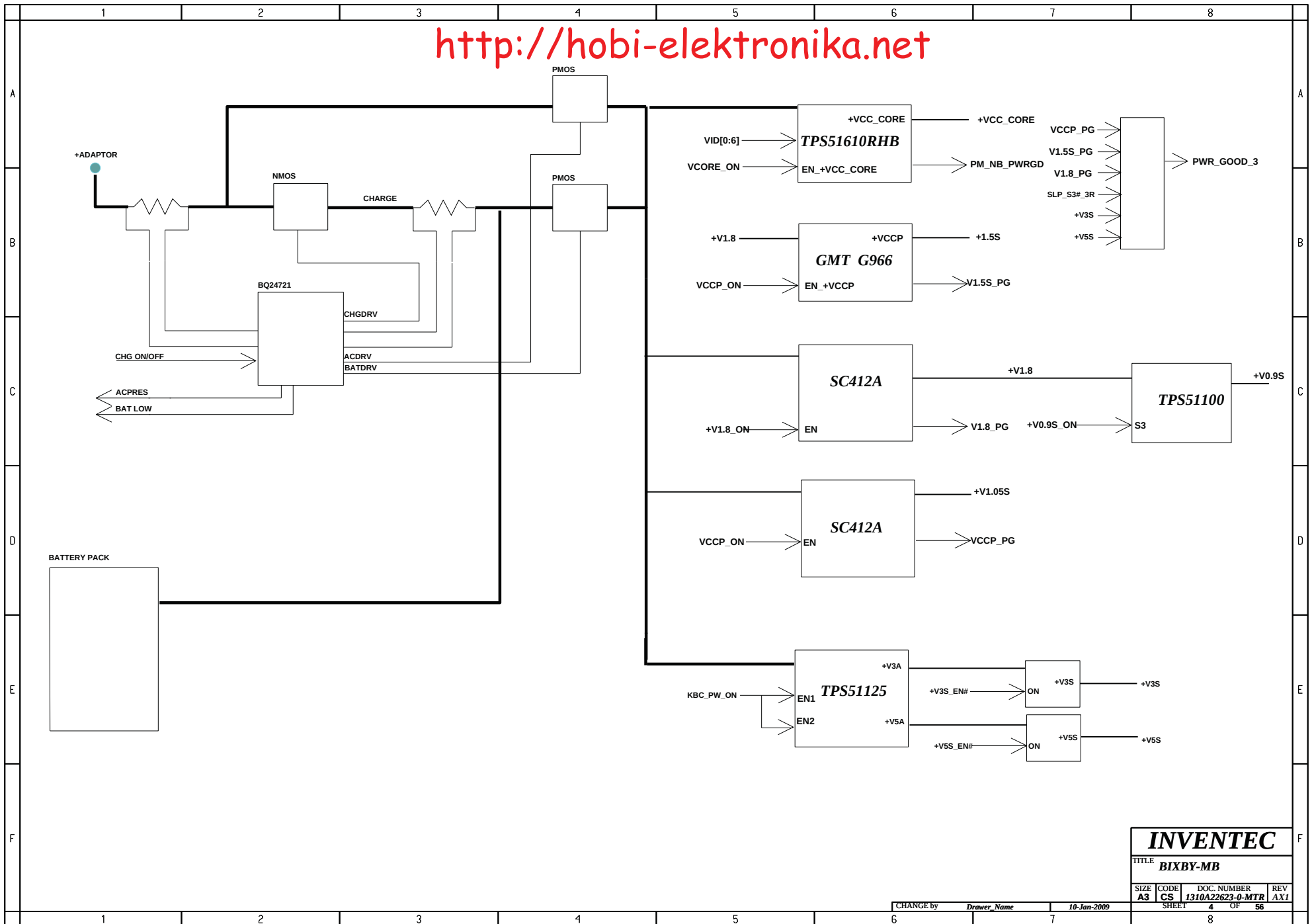


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TITLE BIXBY-MB <i>Block Diagram</i>			
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TITLE **BIXBY-MB**

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The image displays a detailed PCB layout for the BIXBY-MB board. The layout is organized into a grid with columns numbered 1 to 8 and rows labeled A, B, C, D, E, and F. The circuit includes several integrated circuits (ICs) and components:

- ICs:** TC7SET02F US09, 2N7002DW, Q510 (FAIR_FDM59620S_MLP_8P), TI_TP551125_QFN_24P, Q509 (FDS6900AS).
- Resistors:** R209 (10K 5% OPEN), R593 (6.8K 1%), R616 (10K 1%), R210 (120K 1%), R207 (120K 1%), R594 (0.5%), R595 (2.2 5%), R617 (10K 1%), R618 (15.4K 1%), R619 (2.2 5%), R298 (33 5%), R352 (33 5%).
- Capacitors:** C351 (56pF 50V), C691 (150uF 4v R35), C347 (2200pF 50V), C348 (0.1uF 25V), C595 (4.7uF 6.3V), C598 (0.1uF 16V), C624 (0.22uF 6.3V), C686 (2200pF 50V), C685 (0.1uF 25V), C687 (4.7uF 25V), C688 (4.7uF 25V), C623 (0.1uF 16V), C626 (4.7uF 25V), C341 (680pF 50V), C684 (100uF 6.3V).
- Other Components:** PAD504, PAD503, PAD502, L511, L510, L512, L513, L514, L515, L516, L517, L518, L519, L520, L521, L522, L523, L524, L525, L526, L527, L528, L529, L530, L531, L532, L533, L534, L535, L536, L537, L538, L539, L540, L541, L542, L543, L544, L545, L546, L547, L548, L549, L550, L551, L552, L553, L554, L555, L556, L557, L558, L559, L560, L561, L562, L563, L564, L565, L566, L567, L568, L569, L570, L571, L572, L573, L574, L575, L576, L577, L578, L579, L580, L581, L582, L583, L584, L585, L586, L587, L588, L589, L590, L591, L592, L593, L594, L595, L596, L597, L598, L599, L600, L601, L602, L603, L604, L605, L606, L607, L608, L609, L610, L611, L612, L613, L614, L615, L616, L617, L618, L619, L620, L621, L622, L623, L624, L625, L626, L627, L628, L629, L630, L631, L632, L633, L634, L635, L636, L637, L638, L639, L640, L641, L642, L643, L644, L645, L646, L647, L648, L649, L650, L651, L652, L653, L654, L655, L656, L657, L658, L659, L660, L661, L662, L663, L664, L665, L666, L667, L668, L669, L670, L671, L672, L673, L674, L675, L676, L677, L678, L679, L680, L681, L682, L683, L684, L685, L686, L687, L688, L689, L690, L691, L692, L693, L694, L695, L696, L697, L698, L699, L700, L701, L702, L703, L704, L705, L706, L707, L708, L709, L710, L711, L712, L713, L714, L715, L716, L717, L718, L719, L720, L721, L722, L723, L724, L725, L726, L727, L728, L729, L730, L731, L732, L733, L734, L735, L736, L737, L738, L739, L740, L741, L742, L743, L744, L745, L746, L747, L748, L749, L750, L751, L752, L753, L754, L755, L756, L757, L758, L759, L760, L761, L762, L763, L764, L765, L766, L767, L768, L769, L770, L771, L772, L773, L774, L775, L776, L777, L778, L779, L780, L781, L782, L783, L784, L785, L786, L787, L788, L789, L790, L791, L792, L793, L794, L795, L796, L797, L798, L799, L800, L801, L802, L803, L804, L805, L806, L807, L808, L809, L810, L811, L812, L813, L814, L815, L816, L817, L818, L819, L820, L821, L822, L823, L824, L825, L826, L827, L828, L829, L830, L831, L832, L833, L834, L835, L836, L837, L838, L839, L840, L841, L842, L843, L844, L845, L846, L847, L848, L849, L850, L851, L852, L853, L854, L855, L856, L857, L858, L859, L860, L861, L862, L863, L864, L865, L866, L867, L868, L869, L870, L871, L872, L873, L874, L875, L876, L877, L878, L879, L880, L881, L882, L883, L884, L885, L886, L887, L888, L889, L890, L891, L892, L893, L894, L895, L896, L897, L898, L899, L900, L901, L902, L903, L904, L905, L906, L907, L908, L909, L910, L911, L912, L913, L914, L915, L916, L917, L918, L919, L920, L921, L922, L923, L924, L925, L926, L927, L928, L929, L930, L931, L932, L933, L934, L935, L936, L937, L938, L939, L940, L941, L942, L943, L944, L945, L946, L947, L948, L949, L950, L951, L952, L953, L954, L955, L956, L957, L958, L959, L960, L961, L962, L963, L964, L965, L966, L967, L968, L969, L970, L971, L972, L973, L974, L975, L976, L977, L978, L979, L980, L981, L982, L983, L984, L985, L986, L987, L988, L989, L990, L991, L992, L993, L994, L995, L996, L997, L998, L999, L1000, L1001, L1002, L1003, L1004, L1005, L1006, L1007, L1008, L1009, L1010, L1011, L1012, L1013, L1014, L1015, L1016, L1017, L1018, L1019, L1020, L1021, L1022, L1023, L1024, L1025, L1026, L1027, L1028, L1029, L1030, L1031, L1032, L1033, L1034, L1035, L1036, L1037, L1038, L1039, L1040, L1041, L1042, L1043, L1044, L1045, L1046, L1047, L1048, L1049, L1050, L1051, L1052, L1053, L1054, L1055, L1056, L1057, L1058, L1059, L1060, L1061, L1062, L1063, L1064, L1065, L1066, L1067, L1068, L1069, L1070, L1071, L1072, L1073, L1074, L1075, L1076, L1077, L1078, L1079, L1080, L1081, L1082, L1083, L1084, L1085, L1086, L1087, L1088, L1089, L1090, L1091, L1092, L1093, L1094, L1095, L1096, L1097, L1098, L1099, L1100, L1101, L1102, L1103, L1104, L1105, L1106, L1107, L1108, L1109, L1110, L1111, L1112, L1113, L1114, L1115, L1116, L1117, L1118, L1119, L1120, L1121, L1122, L1123, L1124, L1125, L1126, L1127, L1128, L1129, L1130, L1131, L1132, L1133, L1134, L1135, L1136, L1137, L1138, L1139, L1140, L1141, L1142, L1143, L1144, L1145, L1146, L1147, L1148, L1149, L1150, L1151, L1152, L1153, L1154, L1155, L1156, L1157, L1158, L1159, L1160, L1161, L1162, L1163, L1164, L1165, L1166, L1167, L1168, L1169, L1170, L1171, L1

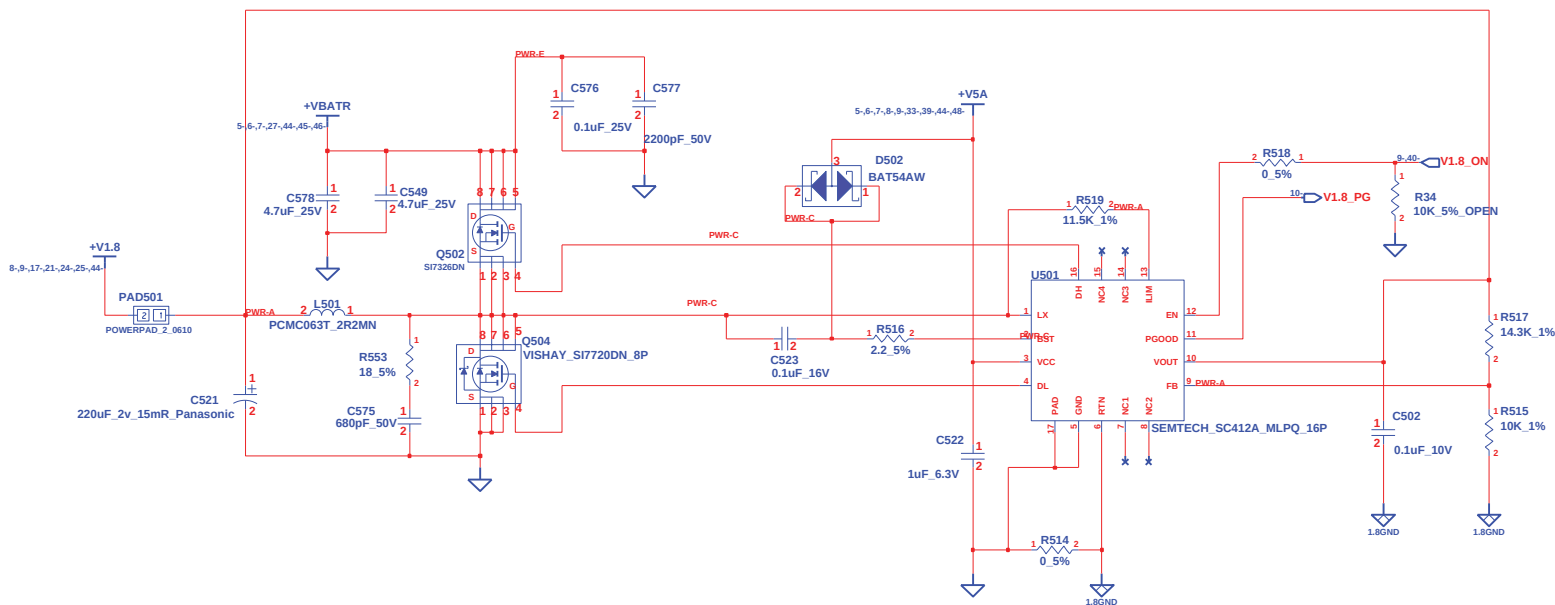
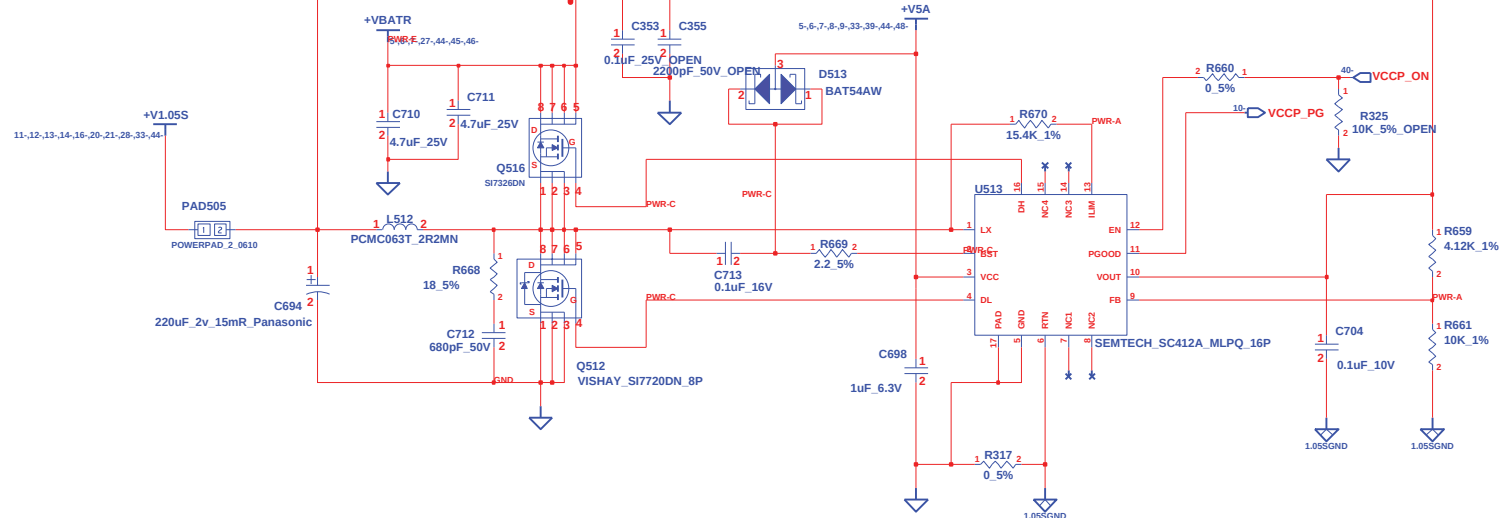
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A3	CS	1310A22623-0-MTR	AX1
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10A22623-0-M1R

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Power 4			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22623-0-MTR	AX
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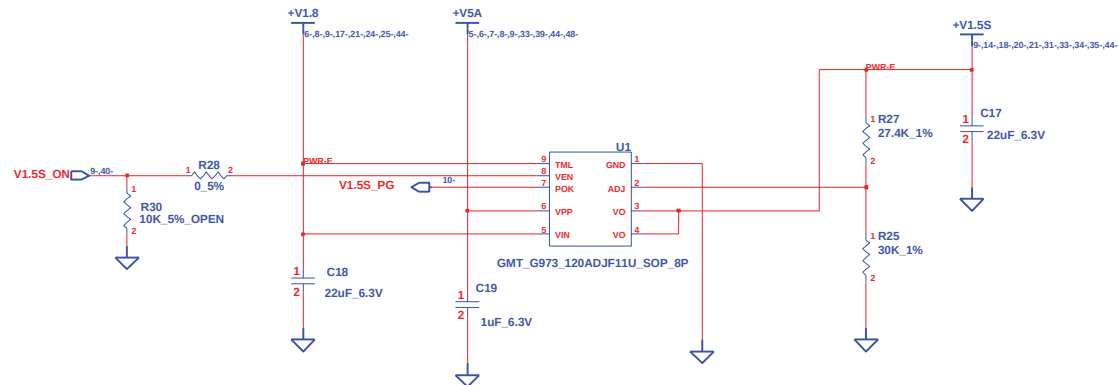
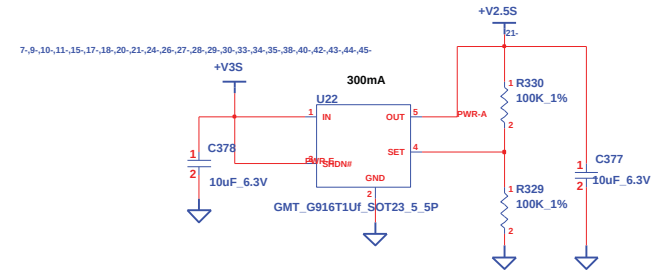
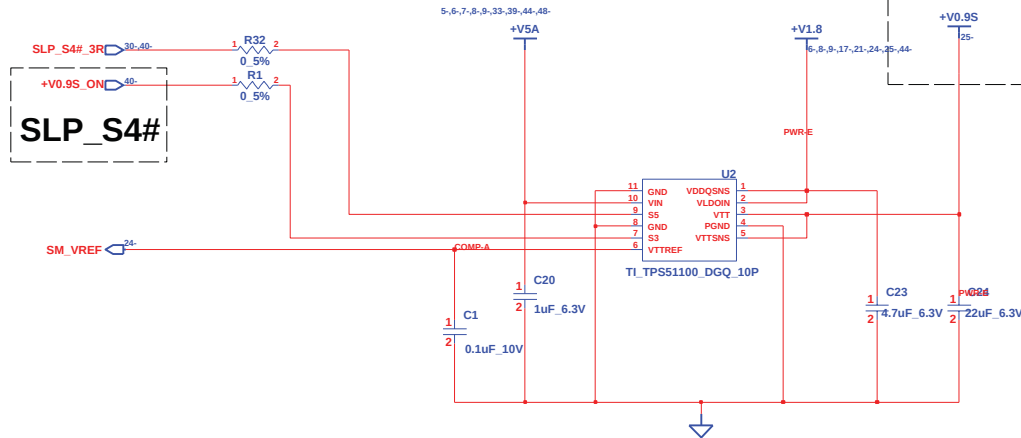
The schematic diagram illustrates the power management circuit for the BIXBY-MB Power 5. It features a central TI TPS51610RHBD-QFN-32P DC-DC converter (U11) that regulates the +V3S input to the +VCC CORE output. The circuit includes multiple input and output filters, such as the 47K 1% resistor (R651) and 6800pF 25V capacitor (C679) for the +V3S input, and the 330uF 2V 9mR Panasonic capacitor (C612) for the +VCC CORE output. Various other components like resistors (R172, R289, R290, R292, R293, R294, R295, R296, R297, R298, R299, R300, R301, R302, R303, R304, R305, R306, R307, R308, R309, R310, R311, R312, R313, R314, R315, R316, R317, R318, R319, R320, R321, R322, R323, R324, R325, R326, R327, R328, R329, R330, R331, R332, R333, R334, R335, R336, R337, R338, R339, R340, R341, R342, R343, R344, R345, R346, R347, R348, R349, R350, R351, R352, R353, R354, R355, R356, R357, R358, R359, R360, R361, R362, R363, R364, R365, R366, R367, R368, R369, R370, R371, R372, R373, R374, R375, R376, R377, R378, R379, R380, R381, R382, R383, R384, R385, R386, R387, R388, R389, R390, R391, R392, R393, R394, R395, R396, R397, R398, R399, R400, R401, R402, R403, R404, R405, R406, R407, R408, R409, R410, R411, R412, R413, R414, R415, R416, R417, R418, R419, R420, R421, R422, R423, R424, R425, R426, R427, R428, R429, R430, R431, R432, R433, R434, R435, R436, R437, R438, R439, R440, R441, R442, R443, R444, R445, R446, R447, R448, R449, R450, R451, R452, R453, R454, R455, R456, R457, R458, R459, R460, R461, R462, R463, R464, R465, R466, R467, R468, R469, R470, R471, R472, R473, R474, R475, R476, R477, R478, R479, R480, R481, R482, R483, R484, R485, R486, R487, R488, R489, R490, R491, R492, R493, R494, R495, R496, R497, R498, R499, R500, R501, R502, R503, R504, R505, R506, R507, R508, R509, R510, R511, R512, R513, R514, R515, R516, R517, R518, R519, R520, R521, R522, R523, R524, R525, R526, R527, R528, R529, R530, R531, R532, R533, R534, R535, R536, R537, R538, R539, R540, R541, R542, R543, R544, R545, R546, R547, R548, R549, R550, R551, R552, R553, R554, R555, R556, R557, R558, R559, R560, R561, R562, R563, R564, R565, R566, R567, R568, R569, R570, R571, R572, R573, R574, R575, R576, R577, R578, R579, R580, R581, R582, R583, R584, R585, R586, R587, R588, R589, R590, R591, R592, R593, R594, R595, R596, R597, R598, R599, R600, R601, R602, R603, R604, R605, R606, R607, R608, R609, R610, R611, R612, R613, R614, R615, R616, R617, R618, R619, R620, R621, R622, R623, R624, R625, R626, R627, R628, R629, R630, R631, R632, R633, R634, R635, R636, R637, R638, R639, R640, R641, R642, R643, R644, R645, R646, R647, R648, R649, R650, R651, R652, R653, R654, R655, R656, R657, R658, R659, R660, R661, R662, R663, R664, R665, R666, R667, R668, R669, R670, R671, R672, R673, R674, R675, R676, R677, R678, R679, R680, R681, R682, R683, R684, R685, R686, R687, R688, R689, R690, R691, R692, R693, R694, R695, R696, R697, R698, R699, R700, R701, R702, R703, R704, R705, R706, R707, R708, R709, R710, R711, R712, R713, R714, R715, R716, R717, R718, R719, R720, R721, R722, R723, R724, R725, R726, R727, R728, R729, R730, R731, R732, R733, R734, R735, R736, R737, R738, R739, R740, R741, R742, R743, R744, R745, R746, R747, R748, R749, R750, R751, R752, R753, R754, R755, R756, R757, R758, R759, R760, R761, R762, R763, R764, R765, R766, R767, R768, R769, R770, R771, R772, R773, R774, R775, R776, R777, R778, R779, R780, R781, R782, R783, R784, R785, R786, R787, R788, R789, R790, R791, R792, R793, R794, R795, R796, R797, R798, R799, R800, R801, R802, R803, R804, R805, R806, R807, R808, R809, R810, R811, R812, R813, R814, R815, R816, R817, R818, R819, R820, R821, R822, R823, R824, R825, R826, R827, R828, R829, R830, R831, R832, R833, R834, R835, R836, R837, R838, R839, R840, R841, R842, R843, R844, R845, R846, R847, R848, R849, R850, R851, R852, R853, R854, R855, R856, R857, R858, R859, R860, R861, R862, R863, R864, R865, R866, R867, R868, R869, R870, R871, R872, R873, R874, R875, R876, R877, R878, R879, R880, R881, R882, R883, R884, R885, R886, R887, R888, R889, R890, R891, R892, R893, R894, R895, R896, R897, R898, R899, R900, R901, R902, R903, R904, R905, R906, R907, R908, R909, R910, R911, R912, R913, R914, R915, R916, R917, R918, R919, R920, R921, R922, R923, R924, R925, R926, R927, R928, R929, R930, R931, R932, R933, R934, R935, R936, R937, R938, R939, R940, R941, R942, R943, R944, R945, R946, R947, R948, R949, R950, R951, R952, R953, R954, R955, R956, R957, R958, R959, R960, R961, R962, R963, R964, R965, R966, R967, R968, R969, R970, R971, R972, R973, R974, R975, R976, R977, R978, R979, R980, R981, R982, R983, R984, R985, R986, R987, R988, R989, R990, R991, R992, R993, R994, R995, R996, R997, R998, R999, R1000, R1001, R1002, R1003, R1004, R1005, R1006, R1007, R1008, R1009, R1010, R1011, R1012, R1013, R1014, R1015, R1016, R1017, R1018, R1019, R1020, R1021, R1022, R1023, R1024, R1025, R1026, R1027, R1028, R1029, R1030, R1031, R1032, R1033, R1034, R1035, R1036, R1037, R1038, R1039, R1040, R1041, R1042, R1043, R1044, R1045, R1046, R1047, R1048, R1049, R1050, R

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Power 5			
SIZE	CODE	DOC. NUMBER	REV
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SIZE A3	CODE CS	DOC. NUMBER 1310A22623-0-MTR	REV AX1
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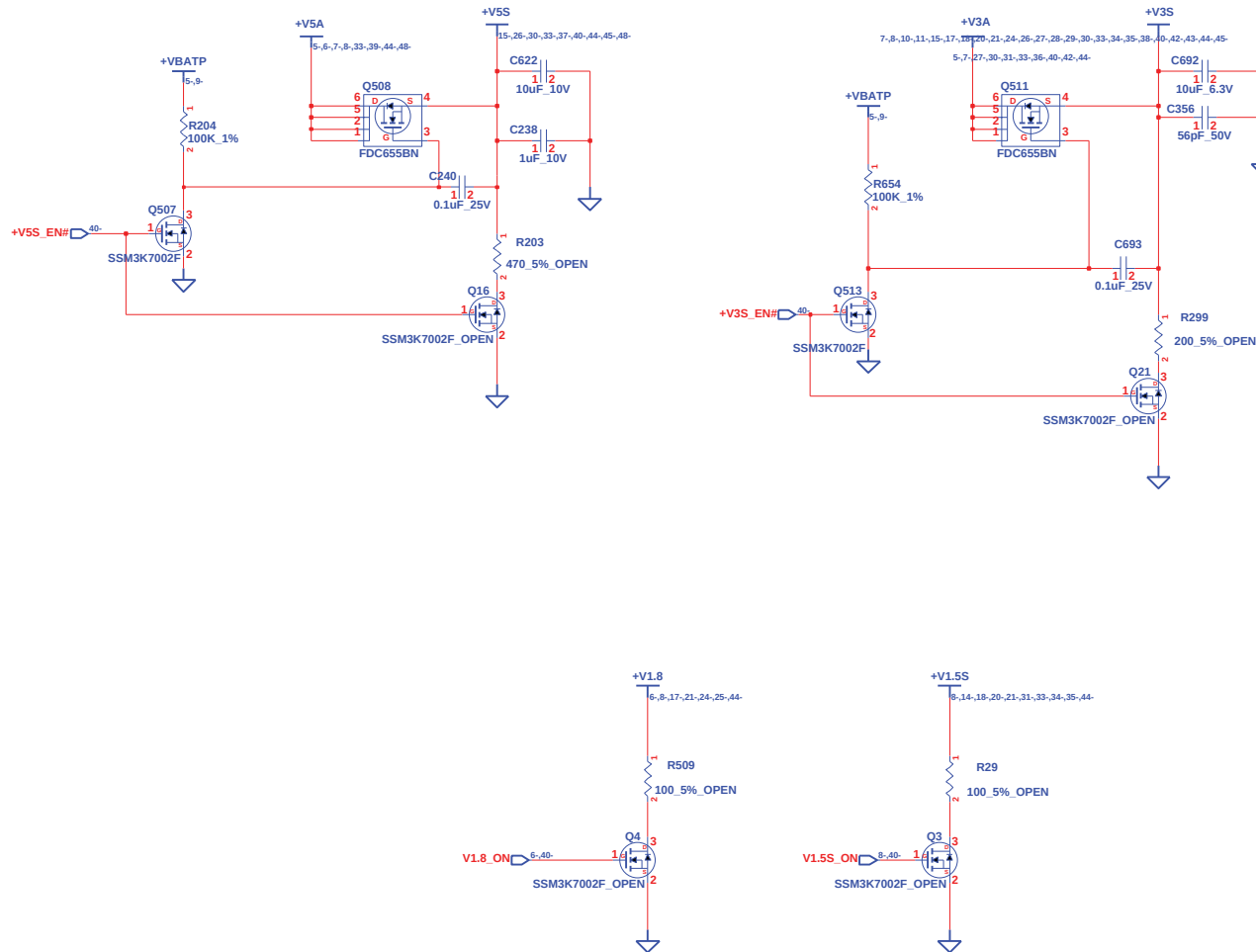


INVENTEC

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Power 5			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22623-0-MTR	AXI
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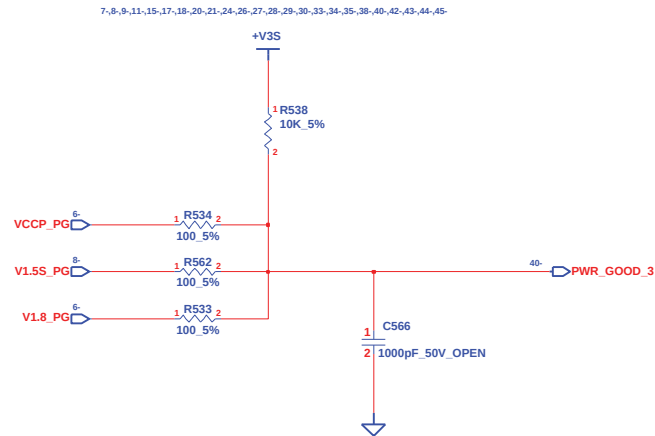


INVENTEC

TITLE			
BIXBY-MB			
Power 7			
SIZE	CODE	DOC. NUMBER	REV
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Power 8			
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The schematic diagram illustrates the clock circuit for the Bixby-MB system. Key components include:

- Power Supply Rails:** +V3S, +V1.05S, CKVDD.
- Timing Components:** Resistors (R) and capacitors (C) used for signal conditioning and timing.
- Integrated Circuits:** U18 (Clock Controller), U19 (Microcontroller).
- Clock Sources:** 945GMS LCD CLK, ICH7M SATA CLK, MINI CARD 1 CLK, MINI CARD 2 CLK, PCIE LAN CLK, MINI_CLKREQ#.
- Control Signals:** OVERTIME_SET HIGH= over clock no allow, ITPSET LOW= SRC8/SRC8# output, DOTT/27M SET LOW= DOT 96 /SRC1 DOTT_27MSET.

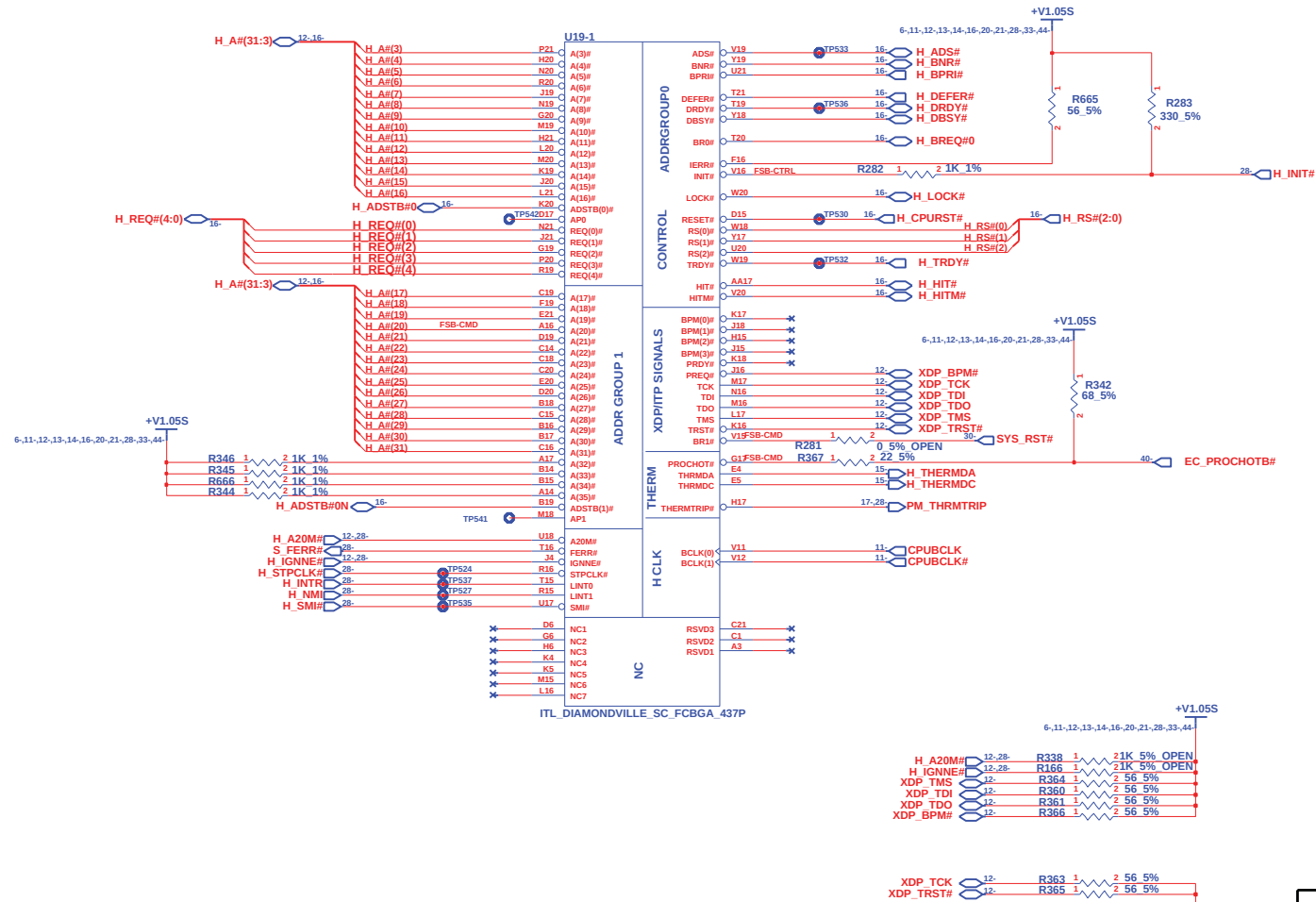
CLKBISEL0	CLKBISEL1	CLKBISEL2	CPU MHZ
1	0	1	100MHZ
1	0	0	133MHZ
1	1	0	167MHZ
0	1	0	200MHZ

INVENTEC

TITLE: BIXBY-MB Clock
SIZE: A3 CODE: CS DOC. NUMBER: 1310A22623-0-MTR REV: AX1
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INVENTEC

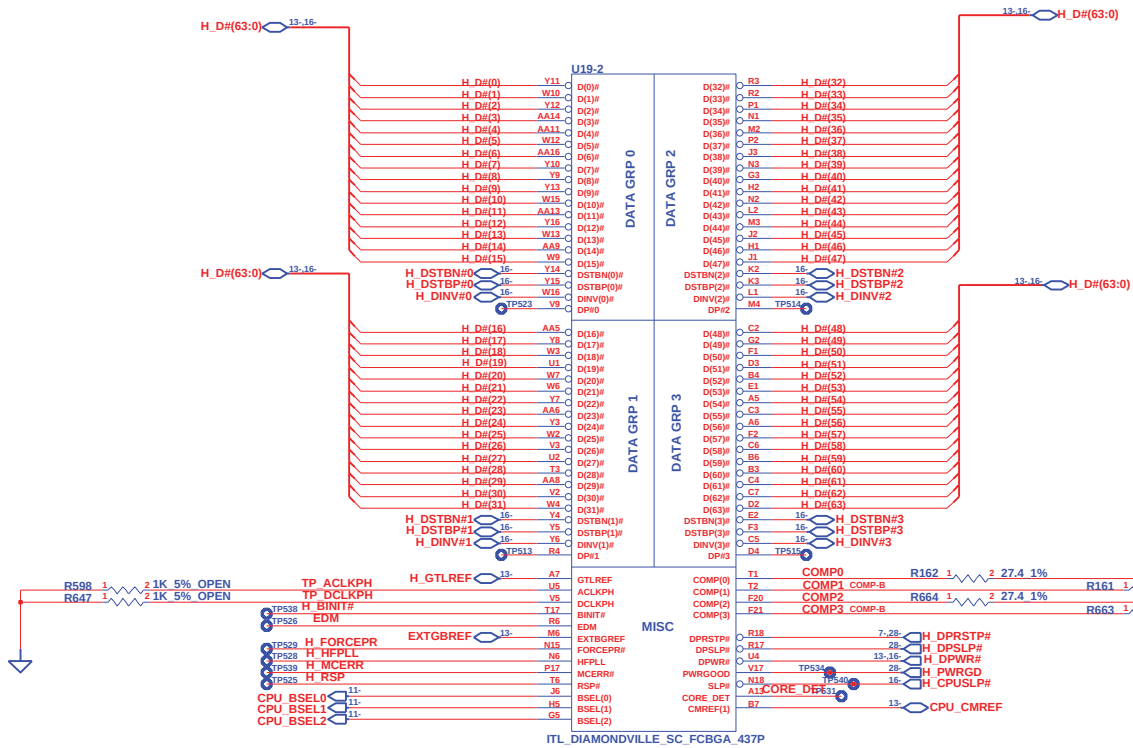
TITLE
BIXBY-MB
CPU-1

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22623-0-MTR	AXI

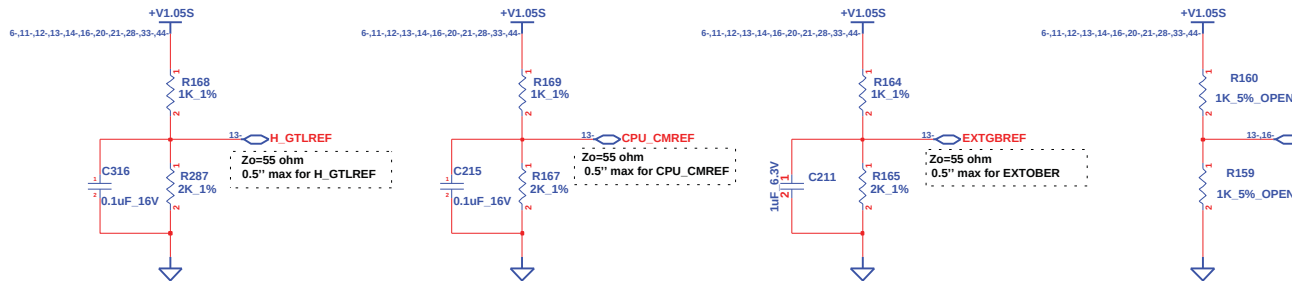
SHEET	12	OF	56
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CHANGE by *Drawn Name* 19-Nov-2008

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comp0,2 connect with $Z_o=27.4\text{ohm}$
"make trace length shorter than 0.5"
comp1,3 connect with $Z_o=55\text{ohm}$
"make trace length shorter than 0.5"



INVENTEC

TITLE
BIXBY-MB

SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A22623-0-MTR	AXI

CHANGE by *Drawn Name* 19-Nov-2008

SHEET 13 OF 56

[illegible]

TITLE			
BIXBY-MB CPU-3			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22623-0-MTR	AX1
SHEET		14	OF 56

CHANGE by	<i>Drawer Name</i>	19-Nov-2008
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CS	1310A22623-0-M1R		
SHEET	14	OF	56

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U19-4

ITL_DIAMONDVILLE_SC_FCBGA_437P

U7

GMT_G780P81U_MSOP_8P

U11

AO3409

U12

TC7SET08FU

U13

ENTERY_3703_Q03N_11R_3P

U14

EC_SMCLK_3

U15

EC_SMDAT_3

U16

THERM_SB#

U17

EC_SMCLK_3

U18

EC_SMDAT_3

U19

THERM_SB#

U20

EC_SMCLK_3

U21

EC_SMDAT_3

U22

THERM_SB#

U23

EC_SMCLK_3

U24

EC_SMDAT_3

U25

THERM_SB#

U26

EC_SMCLK_3

U27

EC_SMDAT_3

U28

THERM_SB#

U29

EC_SMCLK_3

U30

EC_SMDAT_3

U31

THERM_SB#

U32

EC_SMCLK_3

U33

EC_SMDAT_3

U34

THERM_SB#

U35

EC_SMCLK_3

U36

EC_SMDAT_3

U37

THERM_SB#

U38

EC_SMCLK_3

U39

EC_SMDAT_3

U40

THERM_SB#

U41

EC_SMCLK_3

U42

EC_SMDAT_3

U43

THERM_SB#

U44

EC_SMCLK_3

U45

EC_SMDAT_3

U46

THERM_SB#

U47

EC_SMCLK_3

U48

EC_SMDAT_3

U49

THERM_SB#

U50

EC_SMCLK_3

U51

EC_SMDAT_3

U52

THERM_SB#

U53

EC_SMCLK_3

U54

EC_SMDAT_3

U55

THERM_SB#

U56

EC_SMCLK_3

U57

EC_SMDAT_3

U58

THERM_SB#

U59

EC_SMCLK_3

U60

EC_SMDAT_3

U61

THERM_SB#

U62

EC_SMCLK_3

U63

EC_SMDAT_3

U64

THERM_SB#

U65

EC_SMCLK_3

U66

EC_SMDAT_3

U67

THERM_SB#

U68

EC_SMCLK_3

U69

EC_SMDAT_3

U70

THERM_SB#

U71

EC_SMCLK_3

U72

EC_SMDAT_3

U73

THERM_SB#

U74

EC_SMCLK_3

U75

EC_SMDAT_3

U76

THERM_SB#

U77

EC_SMCLK_3

U78

EC_SMDAT_3

U79

THERM_SB#

U80

EC_SMCLK_3

U81

EC_SMDAT_3

U82

THERM_SB#

U83

EC_SMCLK_3

U84

EC_SMDAT_3

U85

THERM_SB#

U86

EC_SMCLK_3

U87

EC_SMDAT_3

U88

THERM_SB#

U89

EC_SMCLK_3

U90

EC_SMDAT_3

U91

THERM_SB#

U92

EC_SMCLK_3

U93

EC_SMDAT_3

U94

THERM_SB#

U95

EC_SMCLK_3

U96

EC_SMDAT_3

U97

THERM_SB#

U98

EC_SMCLK_3

U99

EC_SMDAT_3

U100

THERM_SB#

U101

EC_SMCLK_3

U102

EC_SMDAT_3

U103

THERM_SB#

U104

EC_SMCLK_3

U105

EC_SMDAT_3

U106

THERM_SB#

U107

EC_SMCLK_3

U108

EC_SMDAT_3

U109

THERM_SB#

U110

EC_SMCLK_3

U111

EC_SMDAT_3

U112

THERM_SB#

U113

EC_SMCLK_3

U114

EC_SMDAT_3

U115

THERM_SB#

U116

EC_SMCLK_3

U117

EC_SMDAT_3

U118

THERM_SB#

U119

EC_SMCLK_3

U120

EC_SMDAT_3

U121

THERM_SB#

U122

EC_SMCLK_3

U123

EC_SMDAT_3

U124

THERM_SB#

U125

EC_SMCLK_3

U126

EC_SMDAT_3

U127

THERM_SB#

U128

EC_SMCLK_3

U129

EC_SMDAT_3

U130

THERM_SB#

U131

EC_SMCLK_3

U132

EC_SMDAT_3

U133

THERM_SB#

U134

EC_SMCLK_3

U135

EC_SMDAT_3

U136

THERM_SB#

U137

EC_SMCLK_3

U138

EC_SMDAT_3

U139

THERM_SB#

U140

EC_SMCLK_3

U141

EC_SMDAT_3

U142

THERM_SB#

U143

EC_SMCLK_3

U144

EC_SMDAT_3

U145

THERM_SB#

U146

EC_SMCLK_3

U147

EC_SMDAT_3

U148

THERM_SB#

U149

EC_SMCLK_3

U150

EC_SMDAT_3

U151

THERM_SB#

U152

EC_SMCLK_3

U153

EC_SMDAT_3

U154

THERM_SB#

U155

EC_SMCLK_3

U156

EC_SMDAT_3

U157

THERM_SB#

U158

EC_SMCLK_3

U159

EC_SMDAT_3

U160

THERM_SB#

U161

EC_SMCLK_3

U162

EC_SMDAT_3

U163

THERM_SB#

U164

EC_SMCLK_3

U165

EC_SMDAT_3

U166

THERM_SB#

U167

EC_SMCLK_3

U168

EC_SMDAT_3

U169

THERM_SB#

U170

EC_SMCLK_3

U171

EC_SMDAT_3

U172

THERM_SB#

U173

EC_SMCLK_3

U174

EC_SMDAT_3

U175

THERM_SB#

U176

EC_SMCLK_3

U177

EC_SMDAT_3

U178

THERM_SB#

U179

EC_SMCLK_3

U180

EC_SMDAT_3

U181

THERM_SB#

U182

EC_SMCLK_3

U183

EC_SMDAT_3

U184

THERM_SB#

U185

EC_SMCLK_3

U186

EC_SMDAT_3

U187

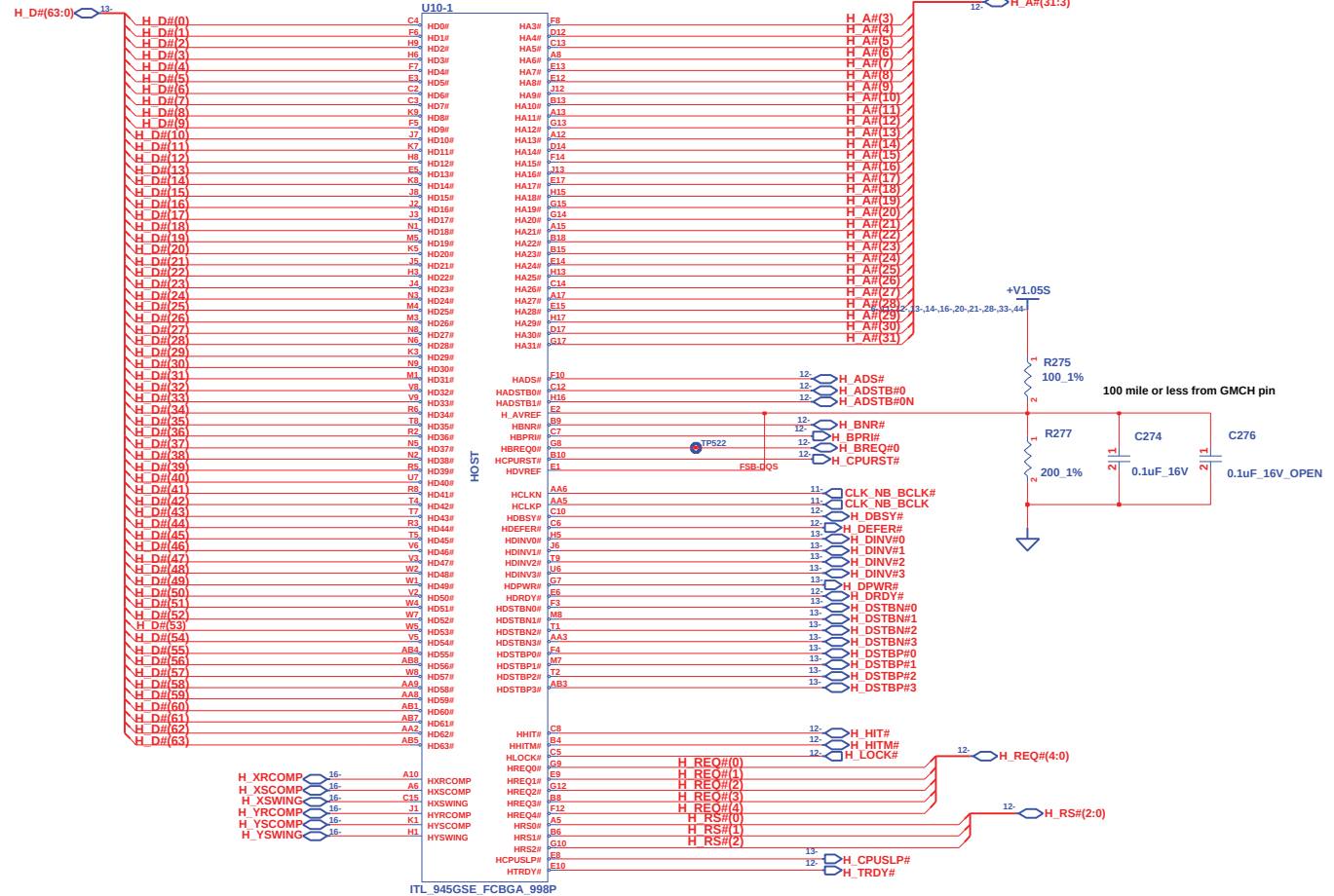
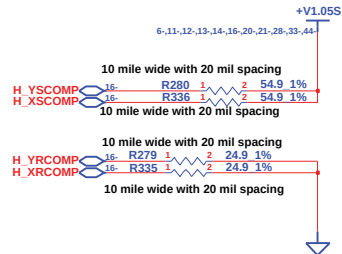
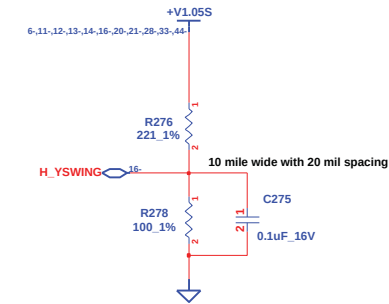
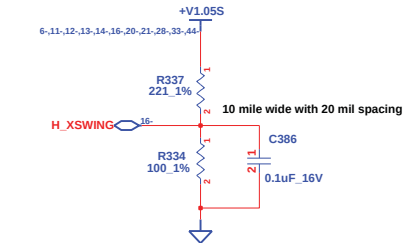
THERM_SB#</

TITLE			
BIXBY-MB			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22623-0-MTR	AX1
SHEET		15	OF 56

CHANGE by	<i>Drawer Name</i>	19-Nov-2008
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TITLE
BIXBY-MB

NB-1

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22623-0-MTR	AXI

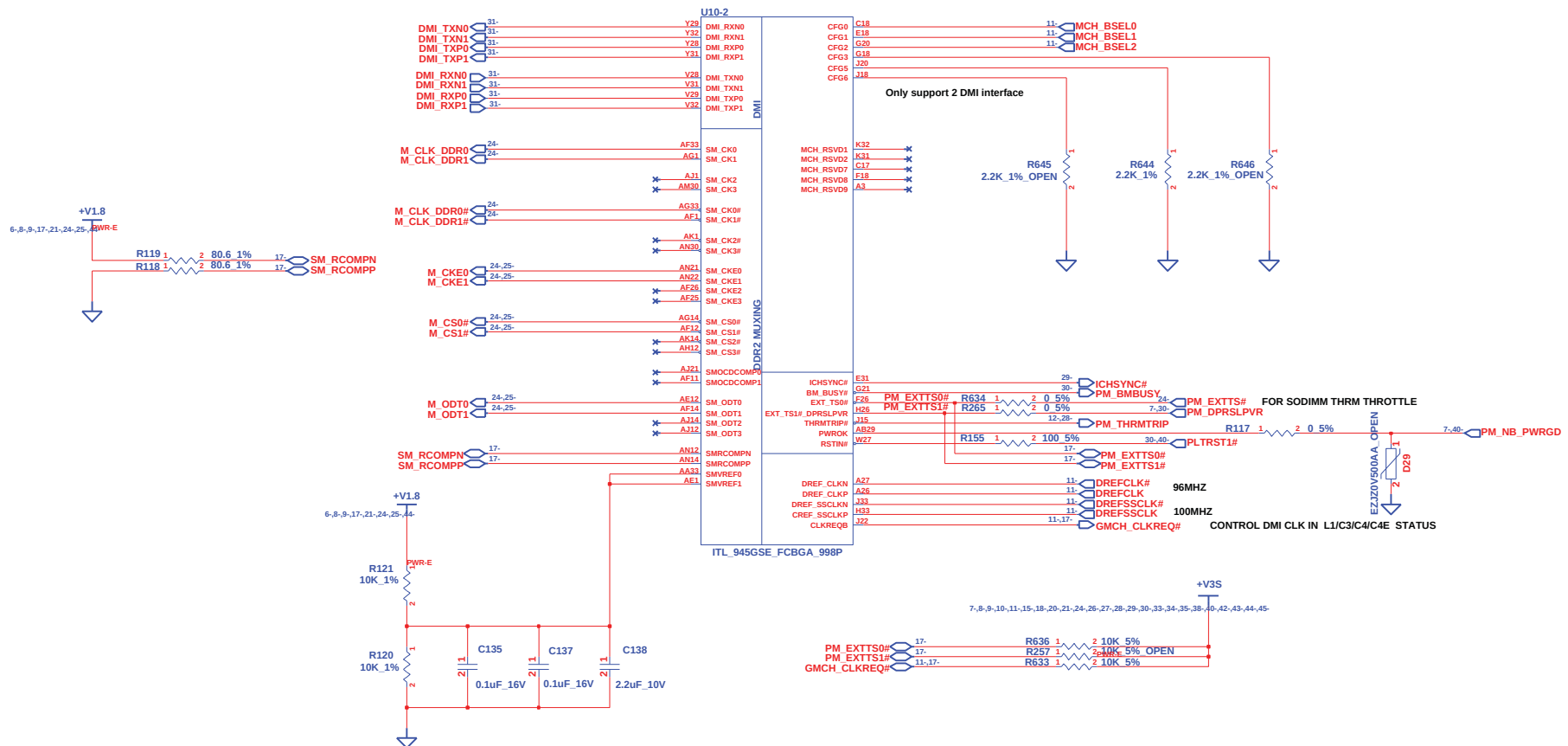
SHEET	16	OF	56
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CHANGE by Drawer Name 19-Nov-2008

8

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CFG3 reverse
CFG5 low=DMIX2 DEF CFG5 high=DMIX4
CFG4 reverse



INVENTEC

TITLE			
SIZE	CODE	DOC. NUMBER	REV
SHEET	OF	1310A22151-0-MTR	B

CHANGE by

1

2

3

4

5

6

7

8

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The diagram illustrates the electrical connections for the BIXBY-MB NB-3 board. It features a central component U10-6 with multiple pins connected to various functional blocks: MISC, VGA, SDVO, LVDS, and TV. Key connections include:

- MISC:** H27, J27, Y26, A26, H28, J28, M28, N28, P28, T28, M30, P30, T30, M32, P32, T32, M34, P34, T34, M36, P36, T36, M38, P38, T38, M40, P40, T40, M42, P42, T42, M44, P44, T44, M46, P46, T46, M48, P48, T48, M50, P50, T50, M52, P52, T52, M54, P54, T54, M56, P56, T56, M58, P58, T58, M60, P60, T60, M62, P62, T62, M64, P64, T64, M66, P66, T66, M68, P68, T68, M70, P70, T70, M72, P72, T72, M74, P74, T74, M76, P76, T76, M78, P78, T78, M80, P80, T80, M82, P82, T82, M84, P84, T84, M86, P86, T86, M88, P88, T88, M90, P90, T90, M92, P92, T92, M94, P94, T94, M96, P96, T96, M98, P98, T98, M100, P100, T100.
- VGA:** H20, H22, A24, A26, E28, E30, E32, E34, E36, E38, E40, E42, E44, E46, E48, E50, E52, E54, E56, E58, E60, E62, E64, E66, E68, E70, E72, E74, E76, E78, E80, E82, E84, E86, E88, E90, E92, E94, E96, E98, E100.
- SDVO:** H20, H22, A24, A26, E28, E30, E32, E34, E36, E38, E40, E42, E44, E46, E48, E50, E52, E54, E56, E58, E60, E62, E64, E66, E68, E70, E72, E74, E76, E78, E80, E82, E84, E86, E88, E90, E92, E94, E96, E98, E100.
- LVDS:** H20, H22, A24, A26, E28, E30, E32, E34, E36, E38, E40, E42, E44, E46, E48, E50, E52, E54, E56, E58, E60, E62, E64, E66, E68, E70, E72, E74, E76, E78, E80, E82, E84, E86, E88, E90, E92, E94, E96, E98, E100.
- TV:** H20, H22, A24, A26, E28, E30, E32, E34, E36, E38, E40, E42, E44, E46, E48, E50, E52, E54, E56, E58, E60, E62, E64, E66, E68, E70, E72, E74, E76, E78, E80, E82, E84, E86, E88, E90, E92, E94, E96, E98, E100.

The diagram also includes a table for component values and a title block.

SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A22623-0-MTR	AX1

INVENTEC
TITLE BIXBY-MB
NB-3
SHEET 18 OF 56

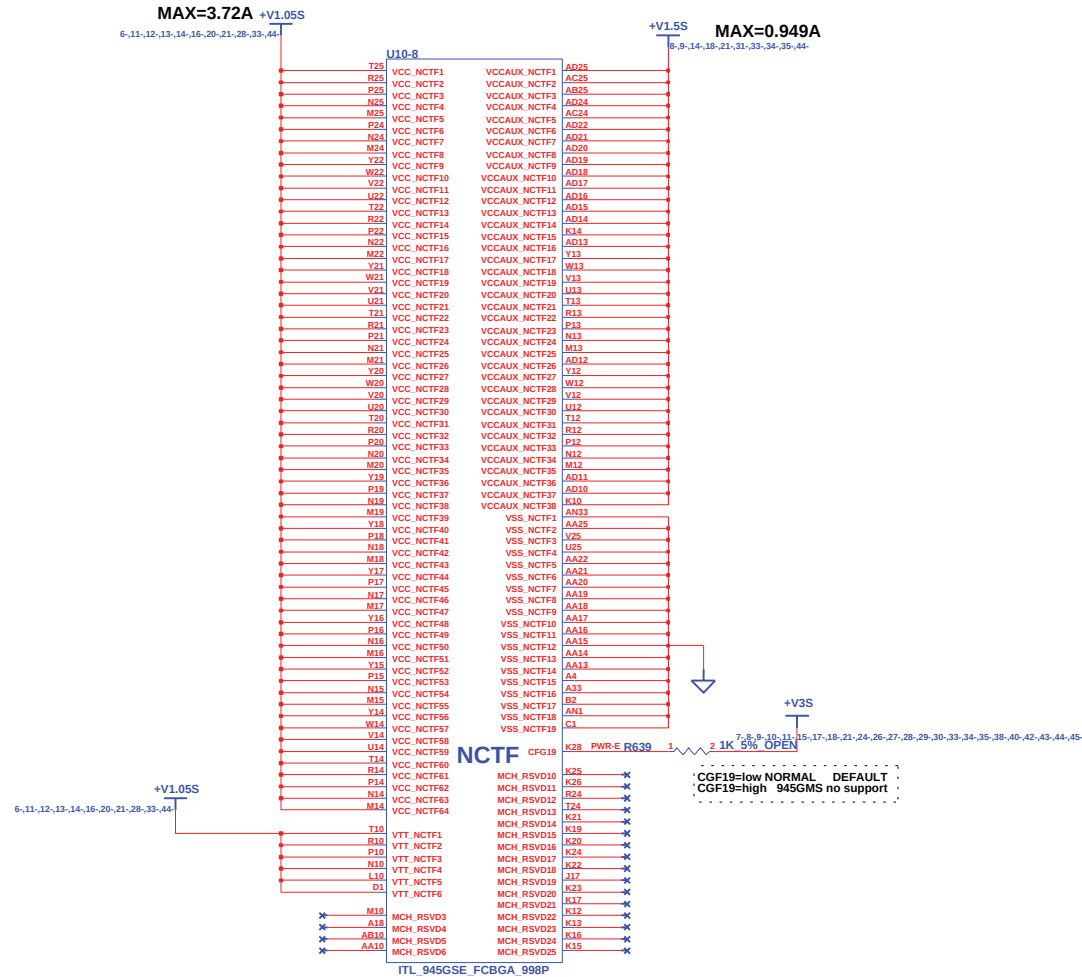
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TITLE			
BIXBY-MB			
NB-4			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22623-0-MTR	AX1
SHEET 19 OF 56			

CHANGE by	<i>Drawer Name</i>	10-Jan-2009
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19 OF 56

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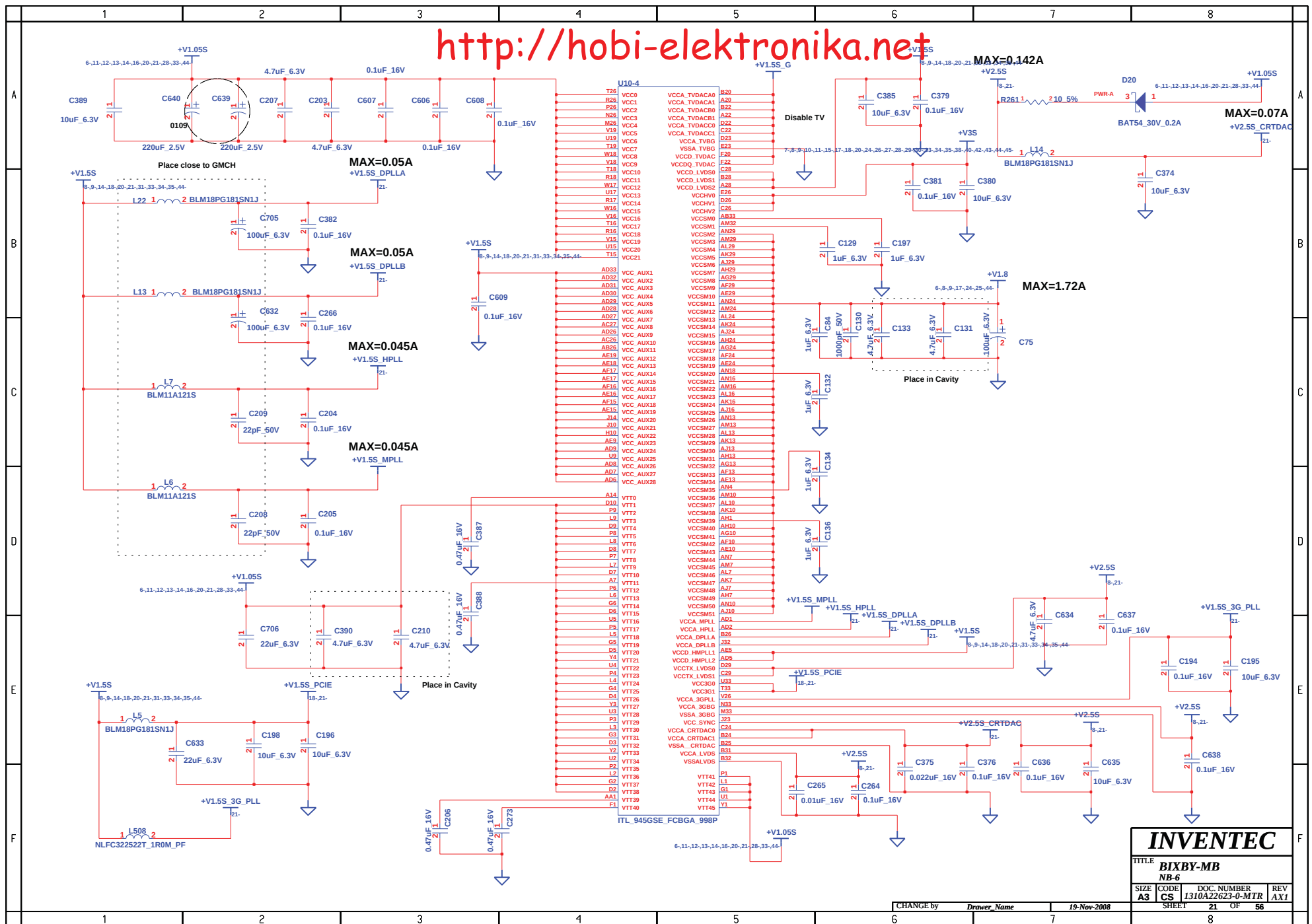


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TITLE			
BIXBY-MB			
NB-5			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A2623-0-MTR	AXI
SHEET		20 OF	56

CHANGE by *Drawn Name* 19-Nov-2008

8



NB-6			
SIZE A3	CODE CS	DOC. NUMBER 1310A22623-0-MTR	REV AX1
SHEET 21 OF 56			

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U10-5

ITL_945GSE_FCBGA_998P

CHANGE by

INVENTEC

TITLE

SIZE	CODE	DOC. NUMBER	REV
		1310A22151-0-MTR	B
SHEET		OF	

<http://hobi-elektronika.net>

U10-7			
* W33	NC1	NC61	W30 *
* AM33	NC2	NC62	Y8 *
* AL33	NC3	NC63	AL1 *
* C33	NC4	NC64	Y5 *
* B33	NC5	NC65	Y10 *
* AN32	NC6	NC66	W10 *
* A32	NC7	NC67	W25 *
* AN31	NC8	NC68	V24 *
* W28	NC9	NC69	U24 *
* Y27	NC10	NC70	U10 *
* W29	NC11	NC71	U10 *
* J24	NC12	NC72	K18 *
* H24	NC13		
* V24	NC14		
* G24	NC15		
* F24	NC16		
* E24	NC17		
* D24	NC18		
* K33	NC19		
* A31	NC20		
* E21	NC21		
* C21	NC22		
* AN19	NC23		
* AM19	NC24		
* AL19	NC25		
* AK19	NC26		
* AJ19	NC27		
* AH19	NC28		
* AN3	NC29		
* Y9	NC30		
* J19	NC31		
* H19	NC32		
* G19	NC33		
* F19	NC34		
* E19	NC35		
* D19	NC36		
* C19	NC37		
* B19	NC38		
* A19	NC39		
* Y8	NC40	MCH. RSVD26	V25 *
* G16	NC41	MCH. RSVD27	Y24 *
* F16	NC42	MCH. RSVD28	AB22 *
* E16	NC43	MCH. RSVD29	AB21 *
* D16	NC44	MCH. RSVD30	AB19 *
* C16	NC45	MCH. RSVD31	AB16 *
* B16	NC46	MCH. RSVD32	AB14 *
* AN2	NC47	MCH. RSVD33	AA12 *
* A16	NC48	MCH. RSVD34	W24 *
* Y7	NC49	MCH. RSVD35	AA24 *
* AM4	NC50	MCH. RSVD36	AB24 *
* AF4	NC51	MCH. RSVD37	AB20 *
* AD4	NC52	MCH. RSVD38	AB18 *
* AK4	NC53	MCH. RSVD39	AB15 *
* AJ4	NC54	MCH. RSVD40	AB13 *
* W31	NC55	MCH. RSVD41	AB12 *
* A34	NC56	MCH. RSVD42	AB17 *
* AH4	NC57		
* AG4	NC58		
* AE4	NC59		
* AM1	NC60		

ITL 945GSE_FCBGA_998P

INVENTEC

TITLE
BIXBY-MB
NB-8

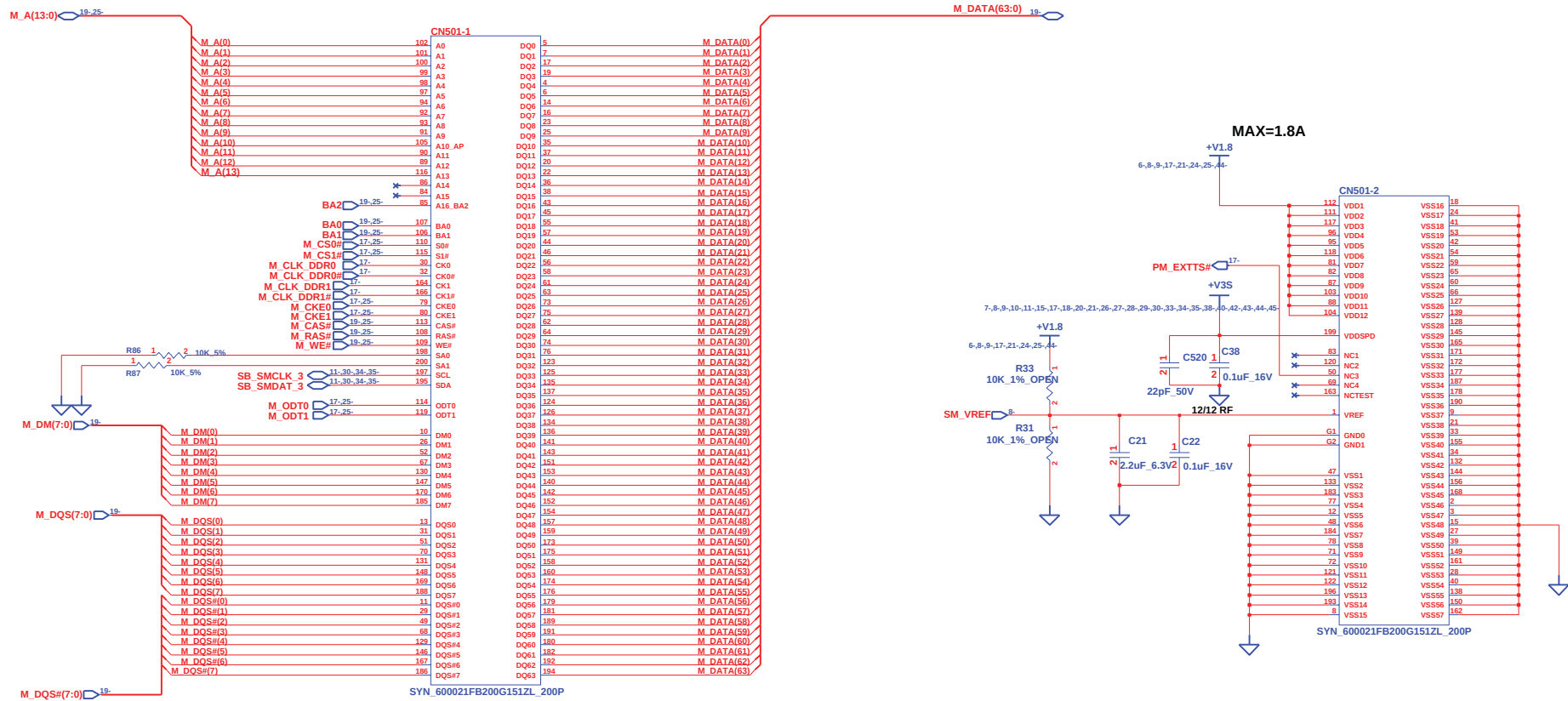
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22623-0-MTR	AXI

SHEET 23 OF 56

CHANGE by Drawn Name 10-Jan-2009

8

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6026B0072203

INVENTEC

TITLE
**BIXBY-MB
DDR2-SODIMM**

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22623-0-MTR	AXI
SHEET		24	OF 56

CHANGE by *Drawer Name* 19-Nov-2008

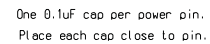
M_WE# 19-, 24-
M_CAS# 19-, 24-
M_ODT1 17-, 24-



0.1ux13

Close to DDR as passible

Layout note: Place one cap close to every 2 pullup resistors terminated to +V0.9S



Layout note: Place capacitors between and near DDR connector if possible.

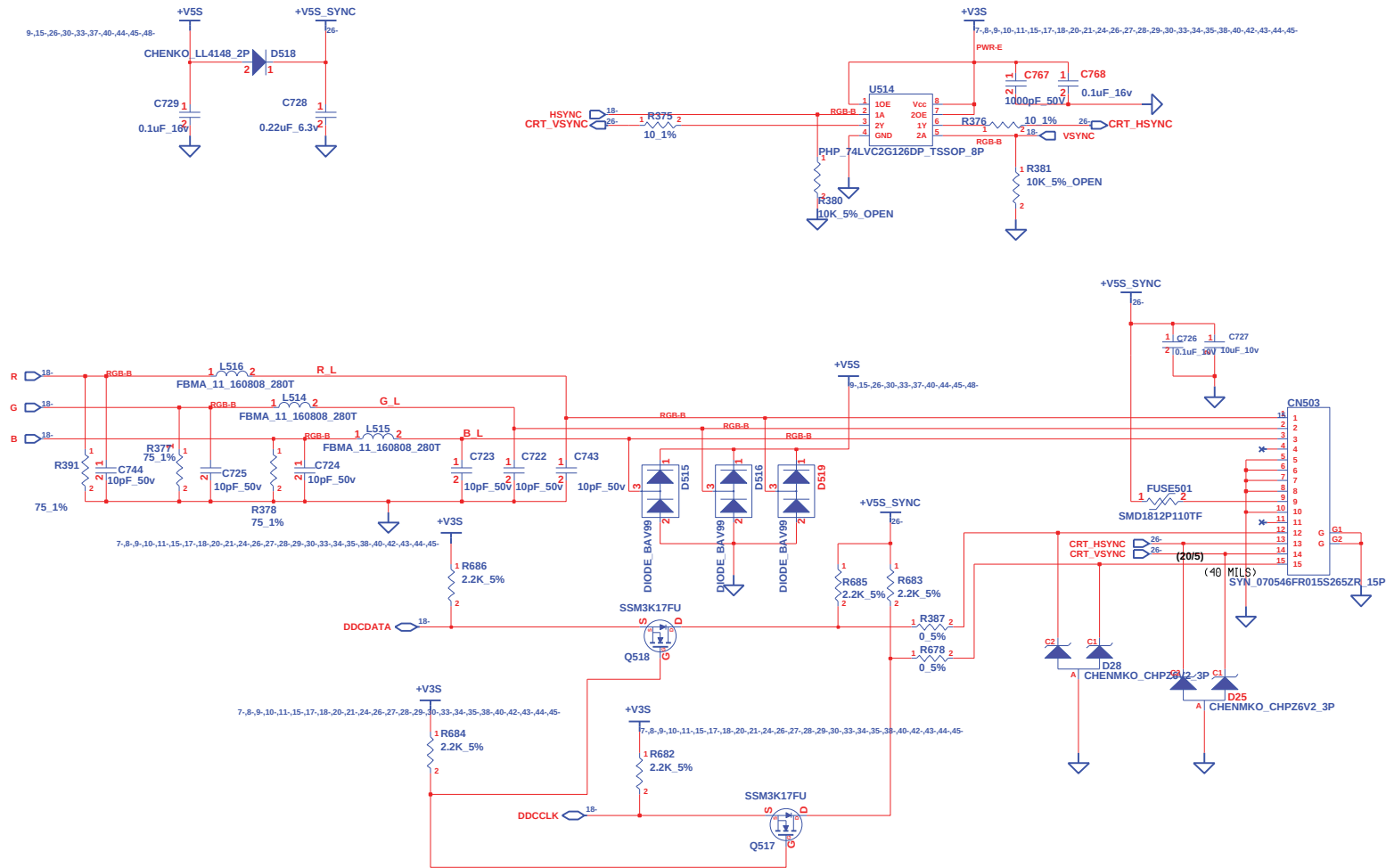
TITLE			
BIXBY-MB DDR2-2			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22623-0-MTR	AX1
SHEET		25	OF 56

CHANGE by	<i>Drawer Name</i>	19-Nov-2008
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CS 1310A22623-0-MTR
SHEET 25 OF 56
8

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2/23 Modify the circuit for OTS#430096



INVENTEC

TITLE			
BIXBY-MB			
CRT			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22623-0-MTR	AXI
SHEET		26	OF 56

CHANGE by *Drawn Name* 19-Nov-2008

Place as passible as close to connector

LCM CONN WEBCAM CONN



SIZE A3	CODE CS	DOC. NUMBER 1310A22623-0-MTR	REV AX1
SHEET		27	OF 56

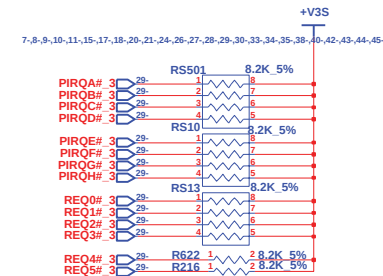
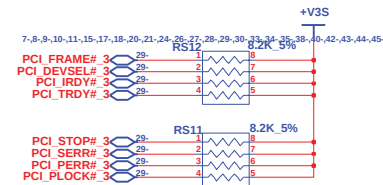
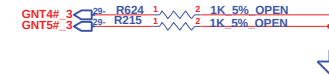
CHANGE by	<i>Drawer Name</i>	19-Nov-2008
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CS 1310A22623-0-M1R
SHEET 27 OF 56

<http://hobi-elektronika.net>

ICH7 Boot BIOS select

	STRAP	GNT5#	GNT4#
LPC	11	NC	NC
PCI	10	NC	ON
SPI	01	ON	NC



INVENTEC

TITLE
BIXBY-MB
ICH7-2

SIZE A3	CODE CS	DOC. NUMBER 1310AZ2623-0-MTR	REV AX1
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CHANGE by *Drawer Name* 19-Nov-2008

SHEET 29 OF 56

<http://hobi-elektronika.net>

SPKR
 "0" reboot mode(default)
 "1" no Reboot mode

U511-3
 ITL_ICH7_MBG.A_652P

GPIO
 GPIO0, GPIO1, GPIO2, GPIO3, GPIO4, GPIO5, GPIO6, GPIO7, GPIO8, GPIO9, GPIO10, GPIO11, GPIO12, GPIO13, GPIO14, GPIO15, GPIO16, GPIO17, GPIO18, GPIO19, GPIO20, GPIO21, GPIO22, GPIO23, GPIO24, GPIO25, GPIO26, GPIO27, GPIO28, GPIO29, GPIO30, GPIO31, GPIO32, GPIO33, GPIO34, GPIO35, GPIO36, GPIO37, GPIO38, GPIO39

GPIO14
 0 0 BIXBY
 1 0 BIXBY1.1

GPIO24
 0 0 BIXBY
 1 0 BIXBY1.1

INVENTEC
 TITLE BIXBY-MB ICH7-3
 SIZE A3 CODE CS DOC. NUMBER 1310A22623-0-MTR REV AX1
 SHEET 30 OF 56

CHANGE by Drawer_Name 19-Nov-2008

TITLE			
BIXBY-MB ICH7-3			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22623-0-MTR	AX1
SHEET		30	OF 56

CHANGE by	<i>Drawer Name</i>	19-Nov-2008
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30 OF 56

[illegible]

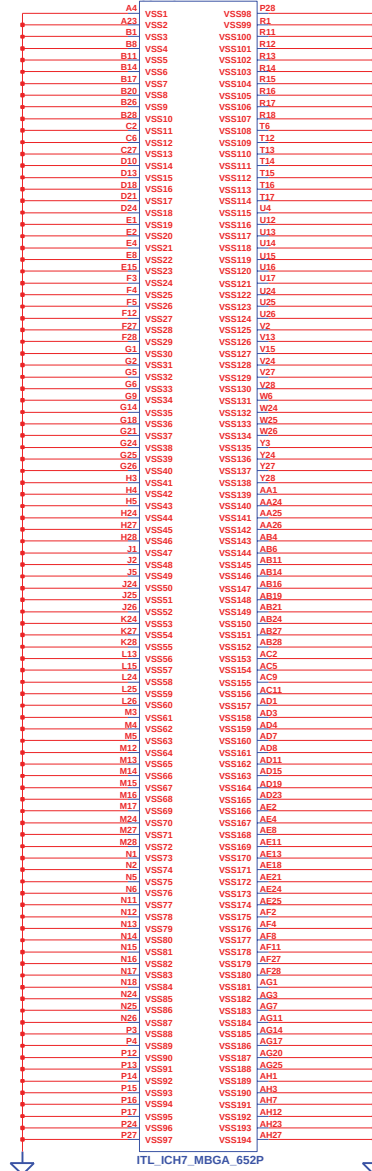
TITLE			
BIXBY-MB			
ICH7-4			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22623-0-MTR	AX1
SHEET		31	OF 56

CHANGE by	<i>Drawer Name</i>	19-Nov-2008
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CS 1310A22023-0-MTR
SHEET 31 OF 56

<http://hobi-elektronika.net>

U511-5



INVENTEC

TITLE
BIXBY-MB
ICH7-5

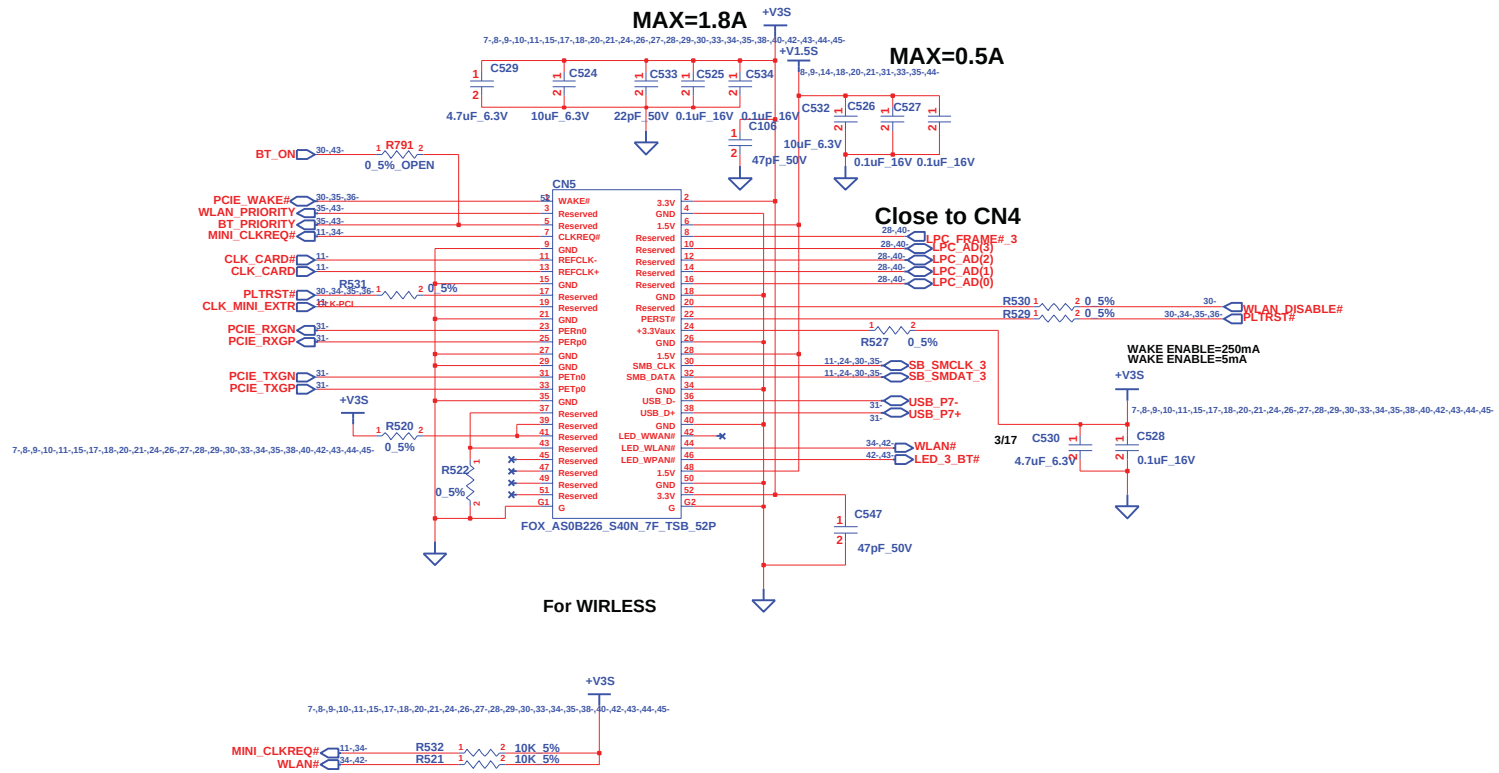
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22623-0-MTR	AXI
SHEET		32	OF 56

CHANGE by *Drawn Name* 19-Nov-2008

8

[illegible]

<http://hobi-elektronika.net>



INVENTEC

TITLE
BIXBY-MB
Express Card

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22623-0-MTR	AXI

CHANGE by *Drawn Name* 19-Nov-2008

SHEET 34 OF 56

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MAX=2.7A

05/08 Mount Q525, R700, R701, R702
Open R12

SIM Card

For 3.5G

INVENTEC

BIXBY-MB
MINI CARD & SIM SLOT

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22623-0-MTR	AX1

CHANGE by: *Drawer_Name* 19-Nov-2008

SHEET 35 OF 56

TITLE			
BIXBY-MB			
MINI CARD & SIM SLOT			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22623-0-MTR	AX1
SHEET		35	OF 56

CHANGE by	<i>Drawer Name</i>	19-Nov-2008
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10A22623-U-MIR	AXI
35	OF 56

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Close to pin 2

Close to pin 6

Close to pin 15

Close to pin 4, pin 7 each

Close to pin 29

Close to pin 16, 22, 42, 36, 39 each

If overclocking, R382 remove
If not overclocking, R382 stuffed

For AR8132: Remove C477, R397
For AR8132M: Stuff C477, R397

1/12 Swap RJ45 LED signals for OTS#424737

2/12

INVENTEC

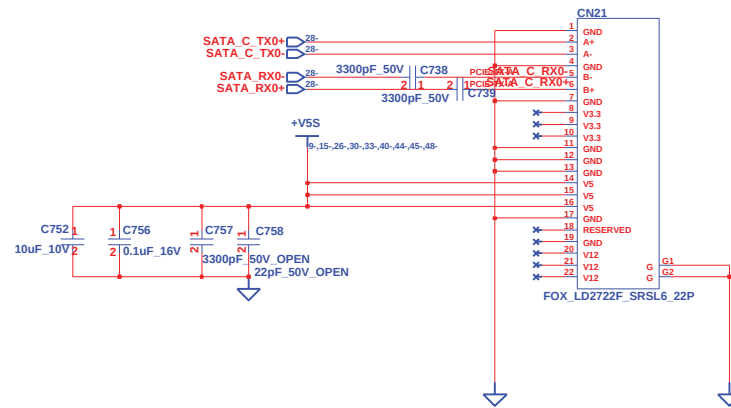
TITLE BIXBY-MB LAN-1

SIZE A3 CODE CS DOC. NUMBER 1310A22623-0-MTR REV AX1

SHEET 36 OF 56

CHANGE: by Drawer, Name 19-Nov-2008

<http://hobi-elektronika.net>

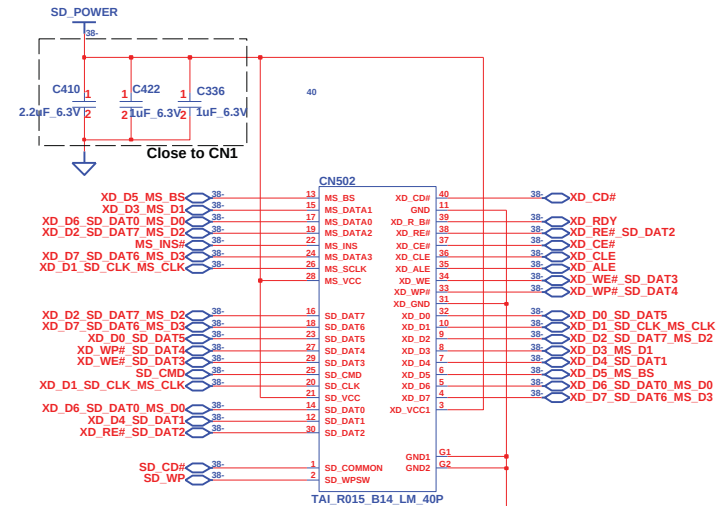
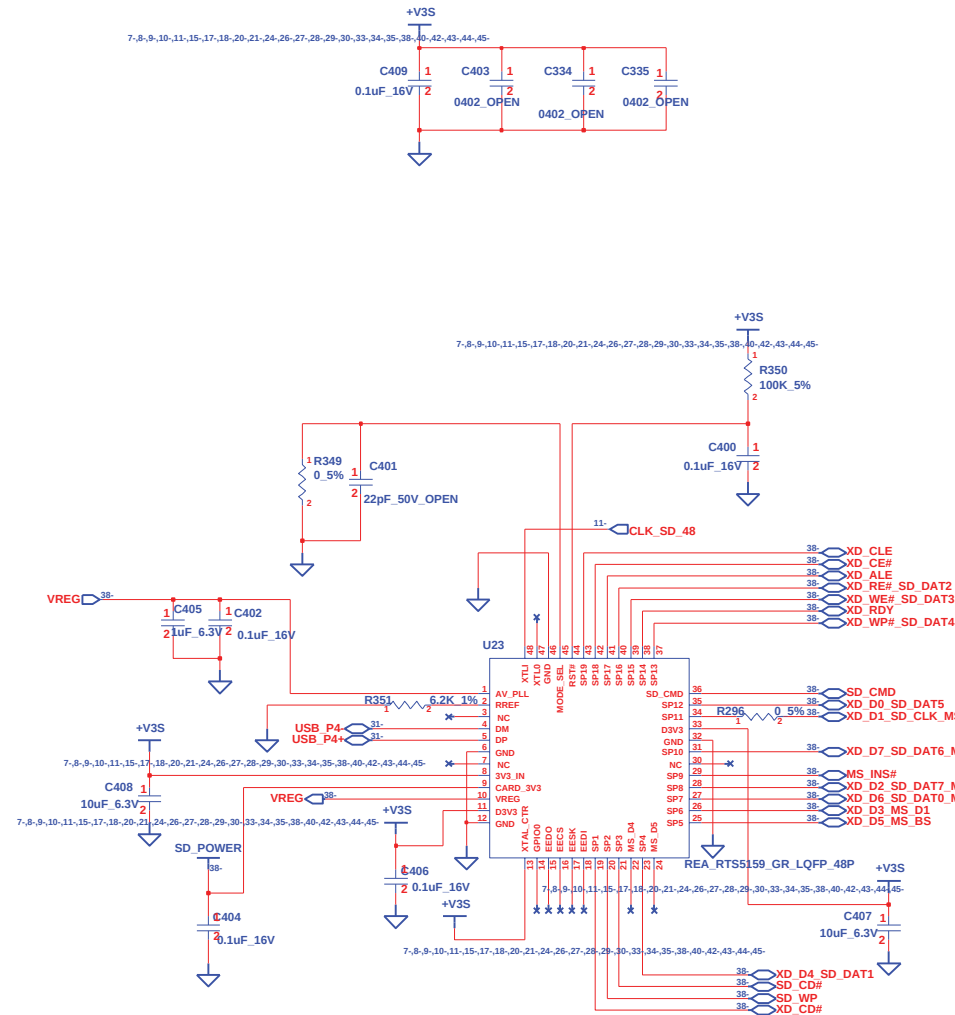


SATA CONN

INVENTEC			
TITLE BIXBY-MB SSD CONN			
SIZE A3	CODE CS	DOC. NUMBER 1310A22623-0-MTR	REV AX1
SHEET 37		OF 56	

CHANGE by Drawn Name 19-Nov-2008

<http://hobi-elektronika.net>



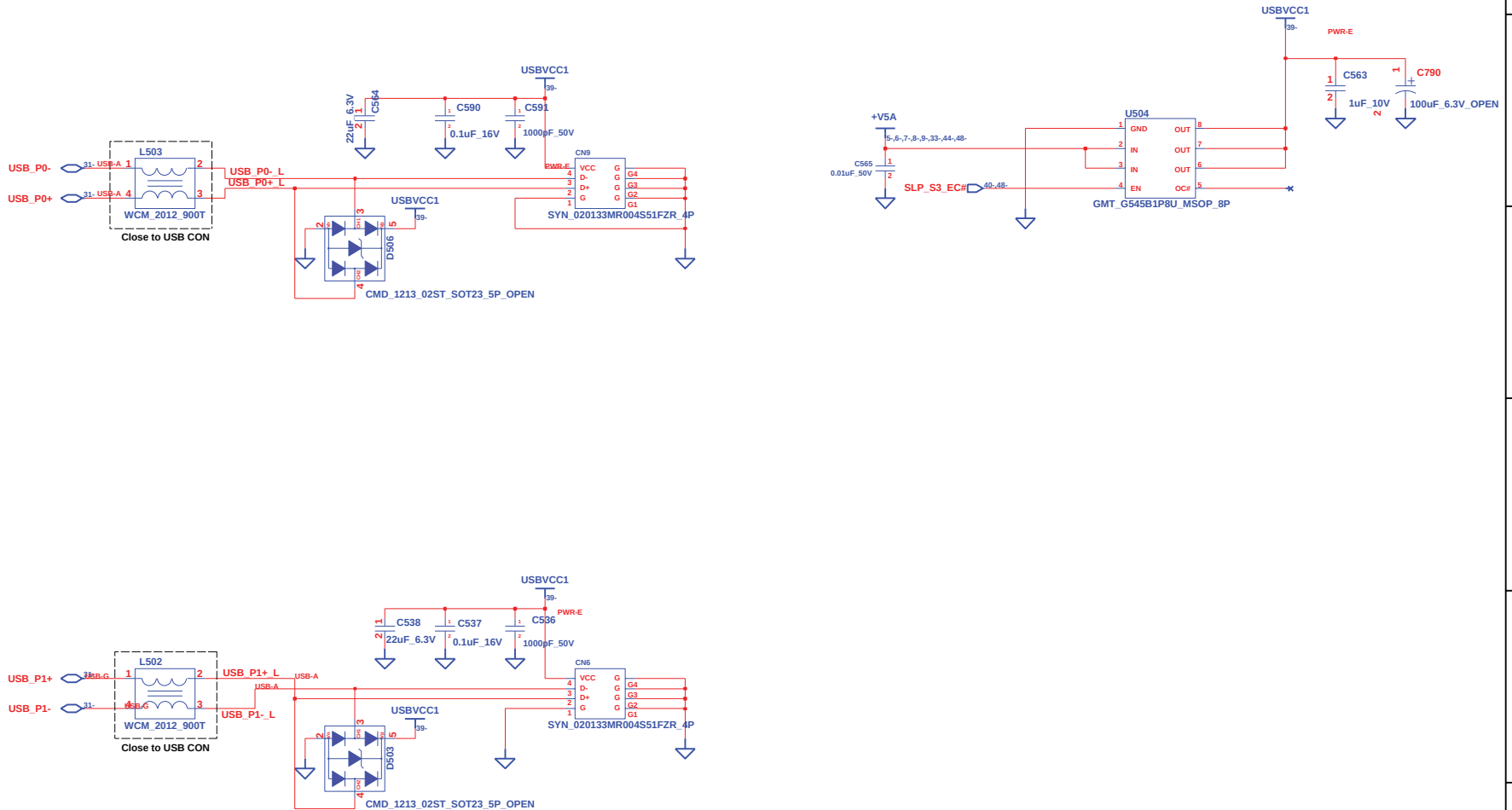
INVENTEC

TITLE BIXBY-MB SD CARD READER			
SIZE A3	CODE CS	DOC. NUMBER I310A22623-0-MTR	REV AX1
SHEET		OF	56

CHANGE by *Drawer Name* 19-Nov-2008

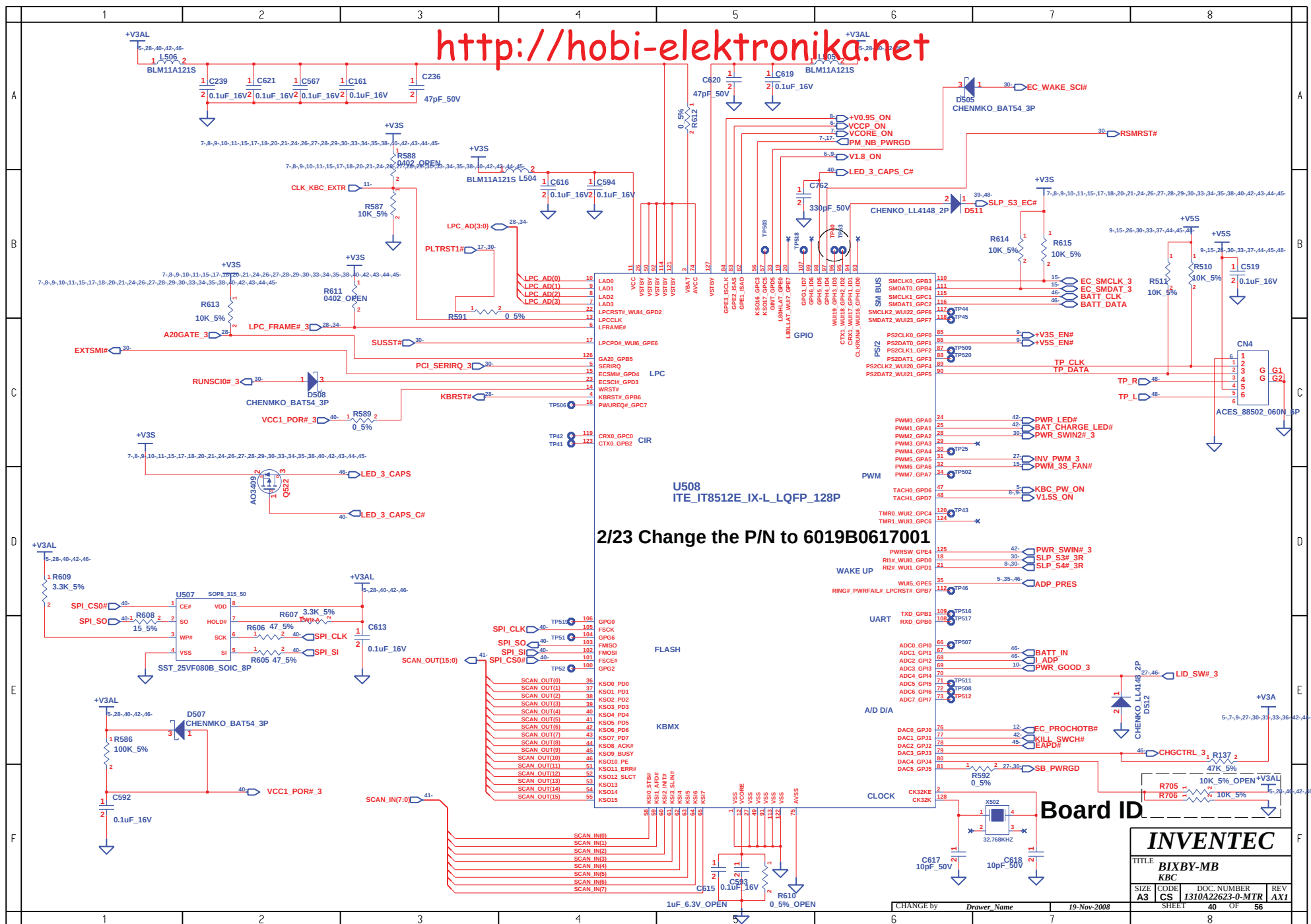
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<http://hobi-elektronika.net>

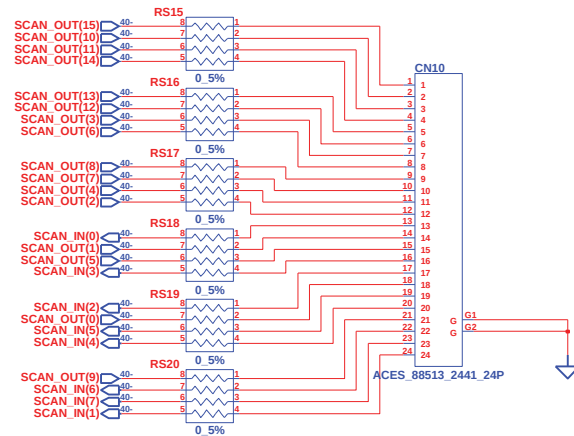


TITLE			
BIXBY-MB			
USB&SATA CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22623-0-MTR	AXI
SHEET		OF	
39		OF	56

CHANGE by *Drawn Name* 19-Nov-2008



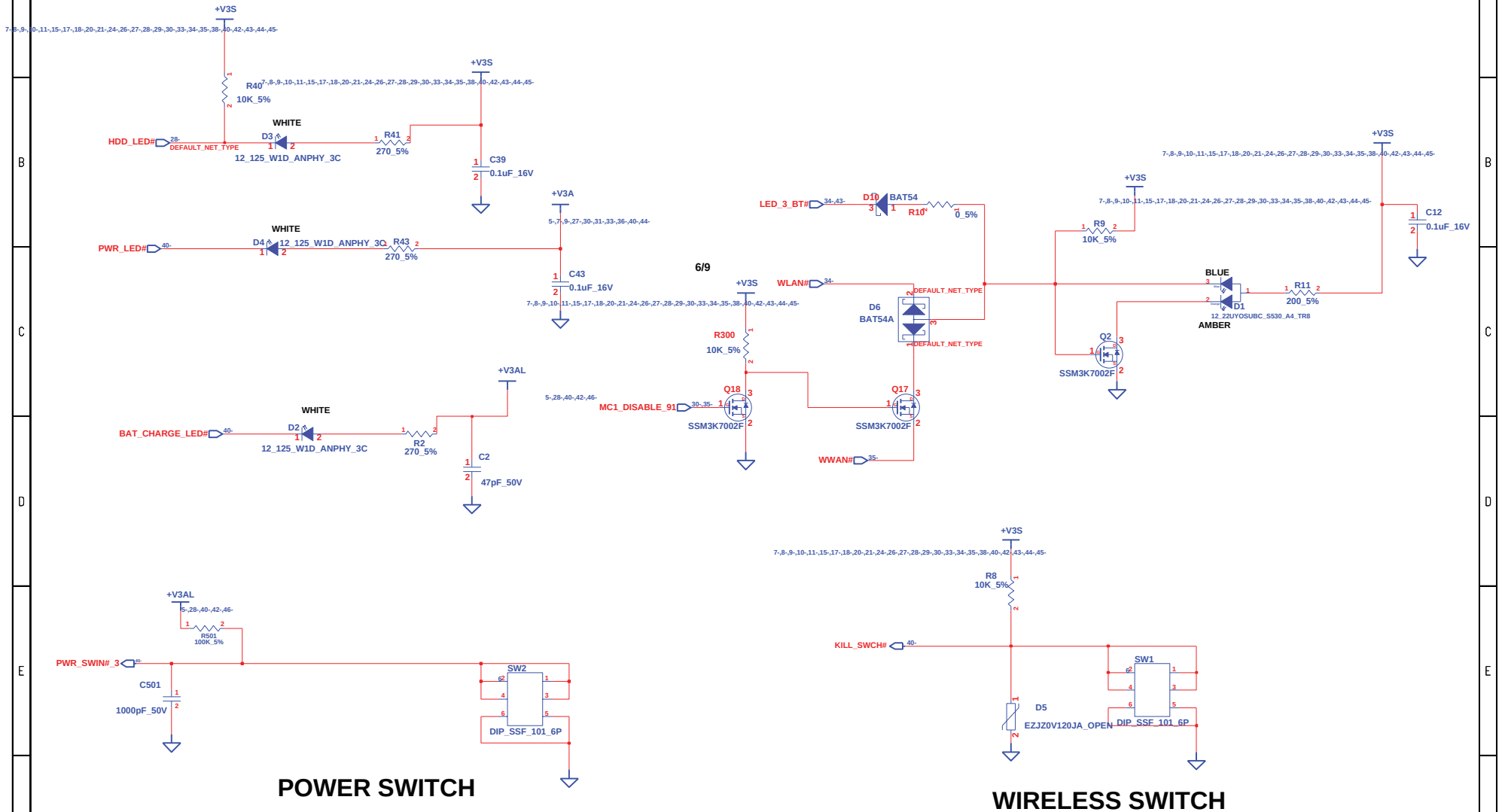
<http://hobi-elektronika.net>



INVENTEC			
TITLE			
BIXBY-MB			
Keyboard connector			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22623-0-MTR	AXI
SHEET		41	OF 56

CHANGE by *Drawn Name* 19-Nov-2008

<http://hobi-elektronika.net>



POWER SWITCH

WIRELESS SWITCH

INVENTEC

TITLE			
BIXBY-MB			
ALL SWITCH			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22623-0-MTR	AX1

CHANGE by *Drawer_Name* 19-Nov-2008

SHEET 42 OF 56

1 2 3 4 5 6 7 8

A

B

C

D

E

F

1 2 3 4 5 6 7 8

http://hobi-elektronika.net

7-8-9-10-11-15-17-18-20-21-24-26-27-28-29-30-33-34-35-38-40-42-43-44-45

+V3S

R505

0402_OPEN

BT_ON 30-34

R504 0.5% OPEN

+V3S

7-8-9-10-11-15-17-18-20-21-24-26-27-28-29-30-33-34-35-38-40-42-43-44-45

C504 0.1uF_10V_OPEN

C503 0402_OPEN

WLAN_PRIORITY 36-38

BT_PRIORITY 34-36

LED_3_BT 34-42

USB_P2+ 31

USB_P2- 31

ACES_87212_08G0_8P_OPEN

8 7 6 5 4 3 2 1

G2 G1

CN1

OPEN BLUETOOTH

INVENTEC

TITLE

SIZE CODE DOC. NUMBER REV

1310A22151-0-0MTR B

SHEET 8 OF

CHANGE by

6 7 8

1 2 3 4 5 6 7 8

A

B

C

D

E

F

1 2 3 4 5 6 7 8

http://hobi-elektronika.net

7-8-9-10-11-15-17-18-20-21-24-26-27-28-29-30-33-34-35-38-40-42-43-44-45

+V3S

R505

0402_OPEN

BT_ON 30-34

R504 0.5% OPEN

+V3S

7-8-9-10-11-15-17-18-20-21-24-26-27-28-29-30-33-34-35-38-40-42-43-44-45

C504 0.1uF_10V_OPEN

C503 0402_OPEN

WLAN_PRIORITY 36-38

BT_PRIORITY 34-36

LED_3_BT 34-42

USB_P2+ 31

USB_P2- 31

ACES_87212_08G0_8P_OPEN

8 7 6 5 4 3 2 1

G2 G1

CN1

OPEN BLUETOOTH

INVENTEC

TITLE

SIZE CODE DOC. NUMBER REV

1310A22151-0-0MTR B

SHEET 8 OF

CHANGE by

6 7 8

TITLE

SIZE	CODE	DOC. NUMBER 1310A22151-0-0MTR	REV B
SHEET		OF	

<http://hobi-elektronika.net>

The image displays a detailed PCB layout for the BIXBY-MB project. It includes various components and their connections across a grid of 8 columns and 6 rows (A-F).

Row A: Capacitors C219, C667, C140, C139, C328, C535, C166, C735, C614, C661, C384, C677, C421, C333, C761.

Row B: Screws S18, S17, S15, S5, S4, S3, S12, S13, S16, S2, S8, S7, S1, S9.

Row C: Screws S18, S17, S15, S5, S4, S3, S12, S13, S16, S2, S8, S7, S1, S9.

Row D: Capacitors C496, C497, C89, C73, C74, C501, C504, C503, C502, B1, B500.

Row E: Capacitors C313, C120, C72, C550, C328, C419, C214, S11, S10, S14, S6, FIX3, FIX5, FIX7, FIX1, FIX504, FIX501, FIX502, FIX503.

Row F: Capacitors C313, C120, C72, C550, C328, C419, C214, S11, S10, S14, S6, FIX3, FIX5, FIX7, FIX1, FIX504, FIX501, FIX502, FIX503.

[illegible]

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TO DC JACK BOARD

SPK Connector

MIC Connector

INVENTEC			
TITLE BIXBY-MB			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A22623-0-MTR	AX1
SHEET		OF	56

http://hobi-elektronika.net

TO DC JACK BOARD

SPK Connector

MIC Connector

INVENTEC			
TITLE BIXBY-MB			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A22623-0-MTR	AX1
SHEET		OF	56

http://hobi-elektronika.net

TO DC JACK BOARD

SPK Connector

MIC Connector

INVENTEC			
TITLE BIXBY-MB			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A22623-0-MTR	AX1
SHEET		OF	56

http://hobi-elektronika.net

TO DC JACK BOARD

SPK Connector

MIC Connector

INVENTEC			
TITLE BIXBY-MB			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A22623-0-MTR	AX1
SHEET		OF	56

CHANGE by

Drawer_Name

6-Dec-2008

6

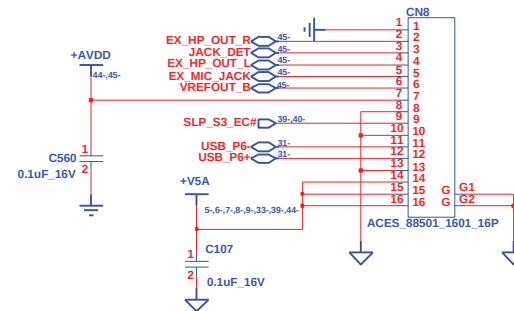
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8

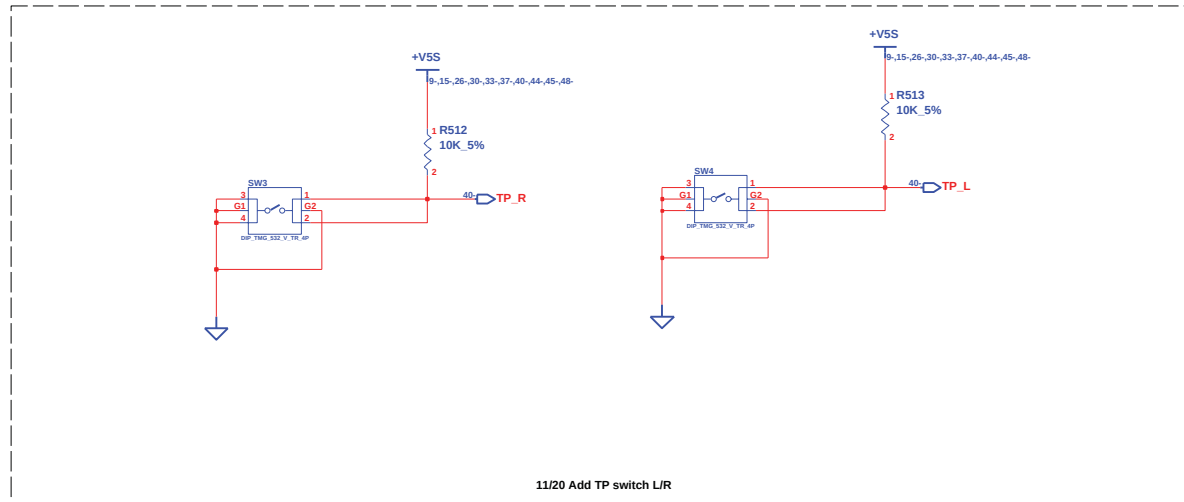
	1	2	3	4	5	6	7	8	
A	http://hobi-elektronika.net								A
B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

INVENTEC			
TITLE BIXBY-MB AUDIO			
SIZE A3	CODE CS	DOC. NUMBER 1310A22623-0-MTR	REV AX
CHANGE by <i>Drawn Name</i>		20-Feb-2009	
SHEET		47	OF 56

<http://hobi-elektronika.net>



11/17 Add AUDIO JACK BOARD CONN



11/20 Add TP switch L/R

INVENTEC			
TITLE			
BIXBY-MB			
DC BOARD			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A22623-0-MTR	AXI
CHANGE by		19-Nov-2008	
DRAWER Name			
SHEET		48	OF 56
		8	

	1	2	3	4	5	6	7	8	
A	http://hobi-elektronika.net								
B									
C									
D									
E									
F									
	1	2	3	4	5	6	7	8	

TITLE

BIXBY-MB
History

SIZE

A3

CODE

CS

DOC. NUMBER

I310A226Z3-0-MTR

REV

AXI

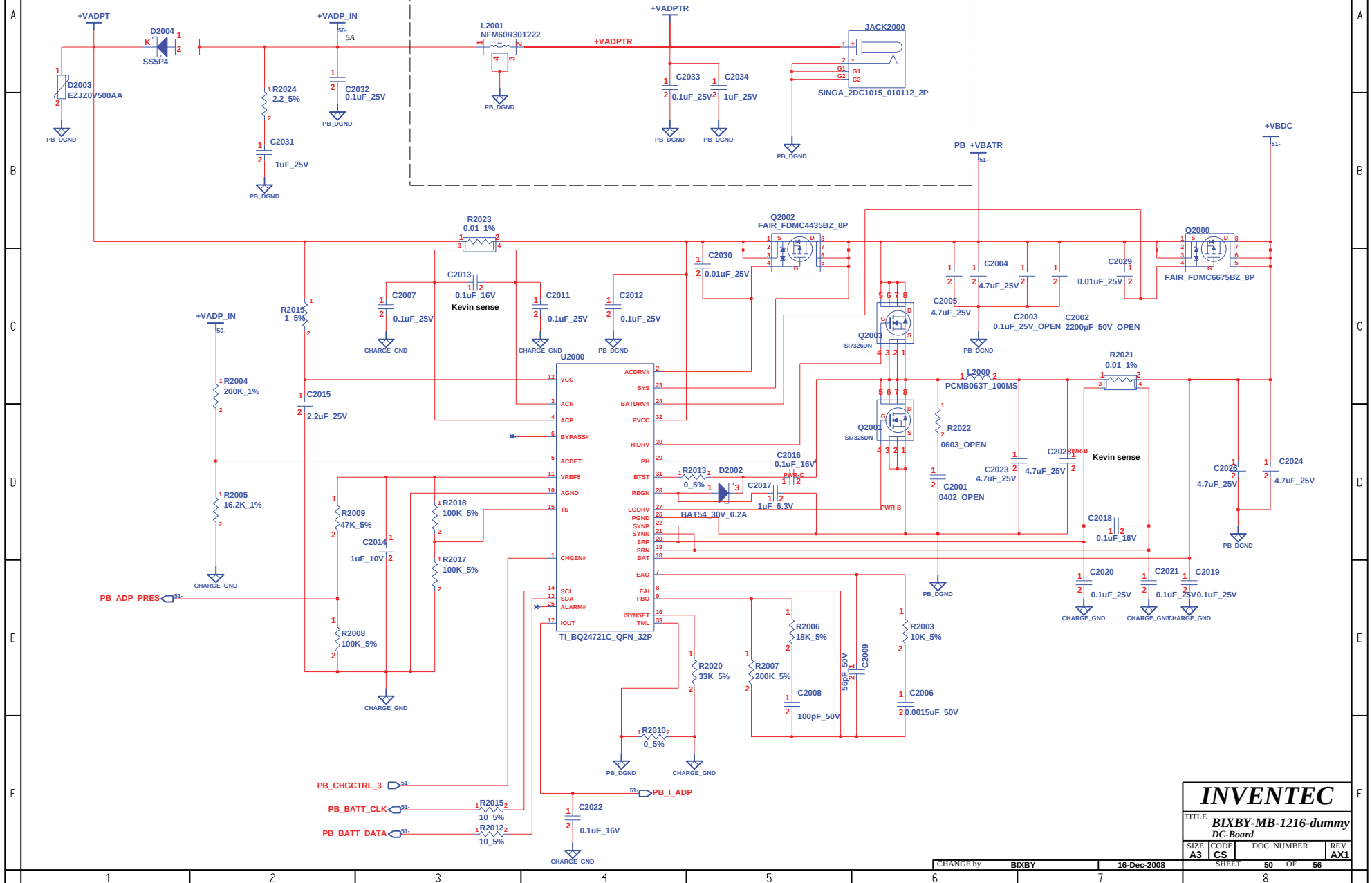
CHANGE by

Drawer_Name

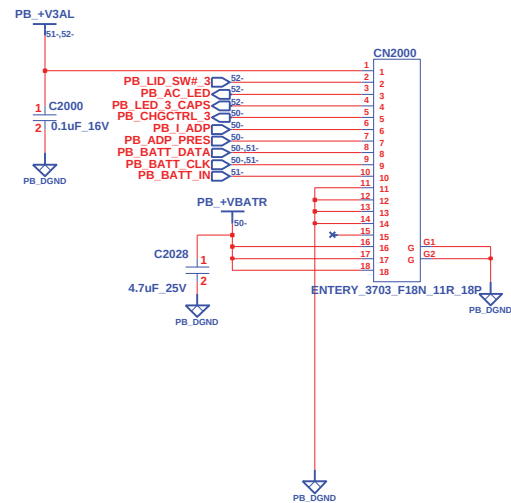
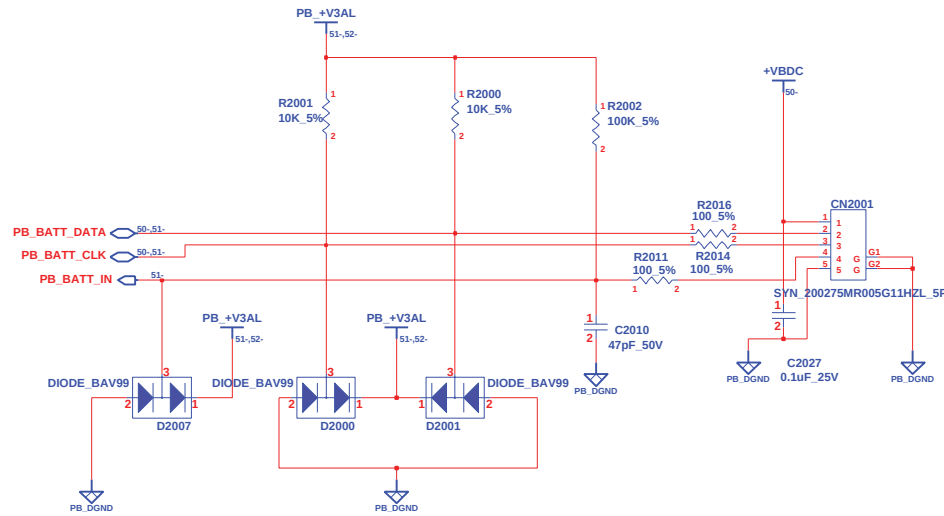
13-Apr-2009

SHEET 49 OF 56

<http://hobi-elektronika.net>



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INVENTEC			
TITLE			
BIXBY-MB-1216-dummy			
DC-Board			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	SHEET 51 OF 56	AX1

CHANGE by BIXBY 16-Dec-2008

<http://hobi-elektronika.net>

LID SW

SIZE A3	CODE CS	DOC. NUMBER	REVISION A
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CHANGE by	BIXBY	24-Apr-2009
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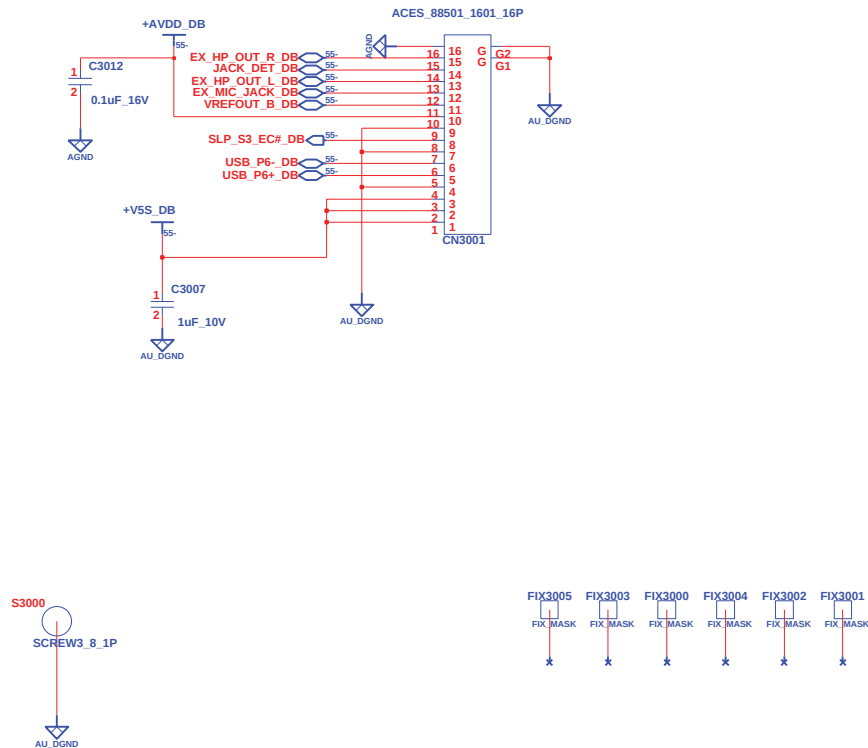
8

	1	2	3	4	5	6	7	8	
A	http://hobi-elektronika.net BIXBY DC JACK Board HISTORY								A
B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

INVENTEC			
TITLE BIXBY-MB-1216-dummy			
DC-Board			
SIZE A3	CODE CS	DOC. NUMBER	REV AX1
SHEET		53	OF 56

CHANGE by BIXBY 13-Apr-2009

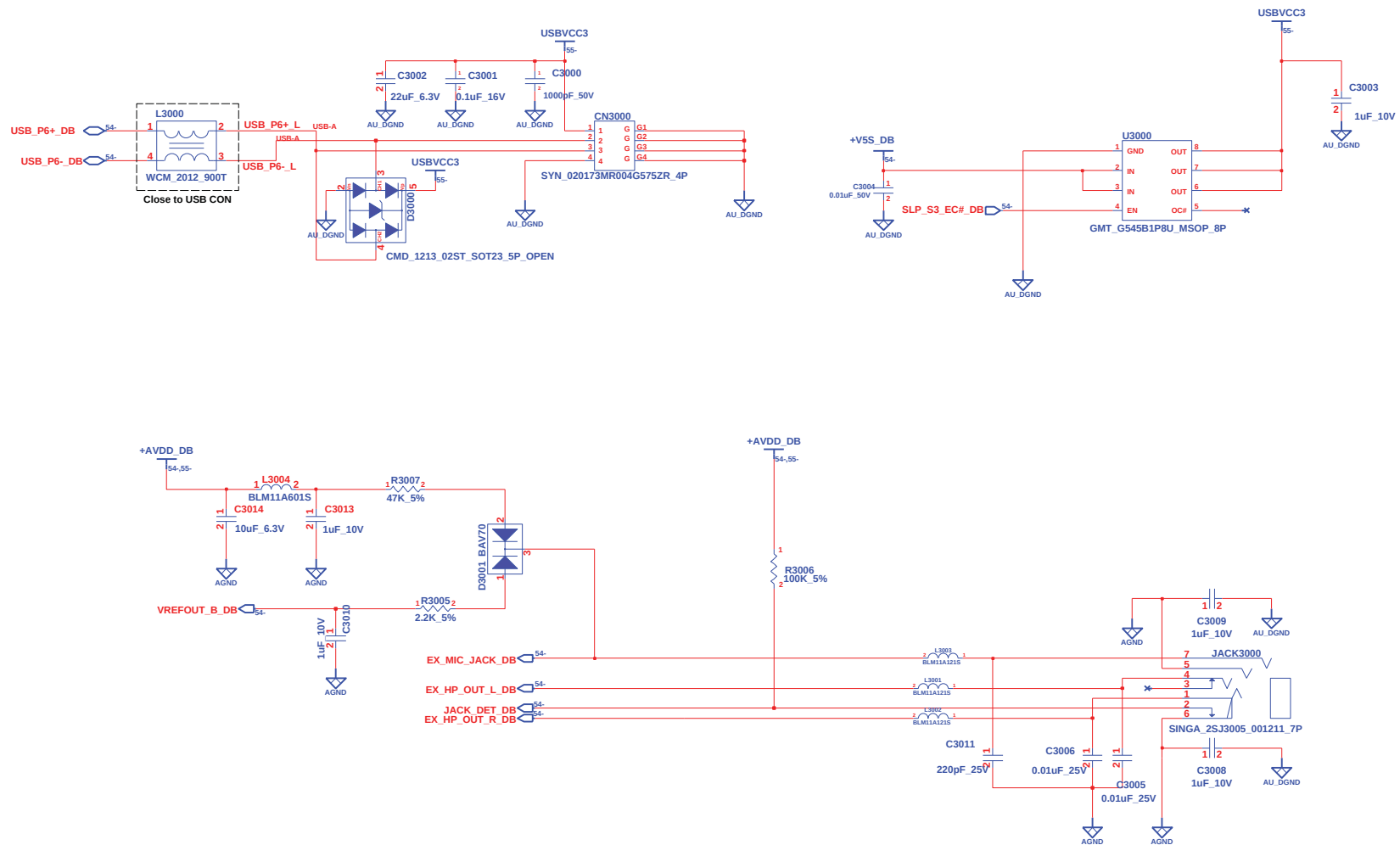
<http://hobi-elektronika.net>



INVENTEC			
TITLE			
BIXBY-MB-1216			
Audio-Board			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	54	AX1
SHEET		OF	
8		56	

CHANGE by BIXBY 16-Dec-2008

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INVENTEC

TITLE
BIXBY-MB-1216
Audio-Board

SIZE	CODE	DOC. NUMBER	REV
A3	CS	55 OF 56	AX1

CHANGE by **BIXBY** 10-Jan-2009

SHEET

55

OF

56

8

<http://hobi-elektronika.net>

BIXBY_AUDIO JACK BOARD HISTORY

INVENTEC			
TITLE BIXBY-MB-1216 Audio-Board			
SIZE A3	CODE CS	DOC. NUMBER	REV AX1
SHEET		56	OF 56

CHANGE by BIXBY 13-Apr-2009