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Calcutta 10

CS Build (A01)

2010.04.09

INVENTEC			
TITLE Calcutta10			
SIZE A3	CODE CS	DOC. NUMBER Model No	REV 000
CHANGE by Drawer Name		22-Mar-2010	SHEET 1 OF 56

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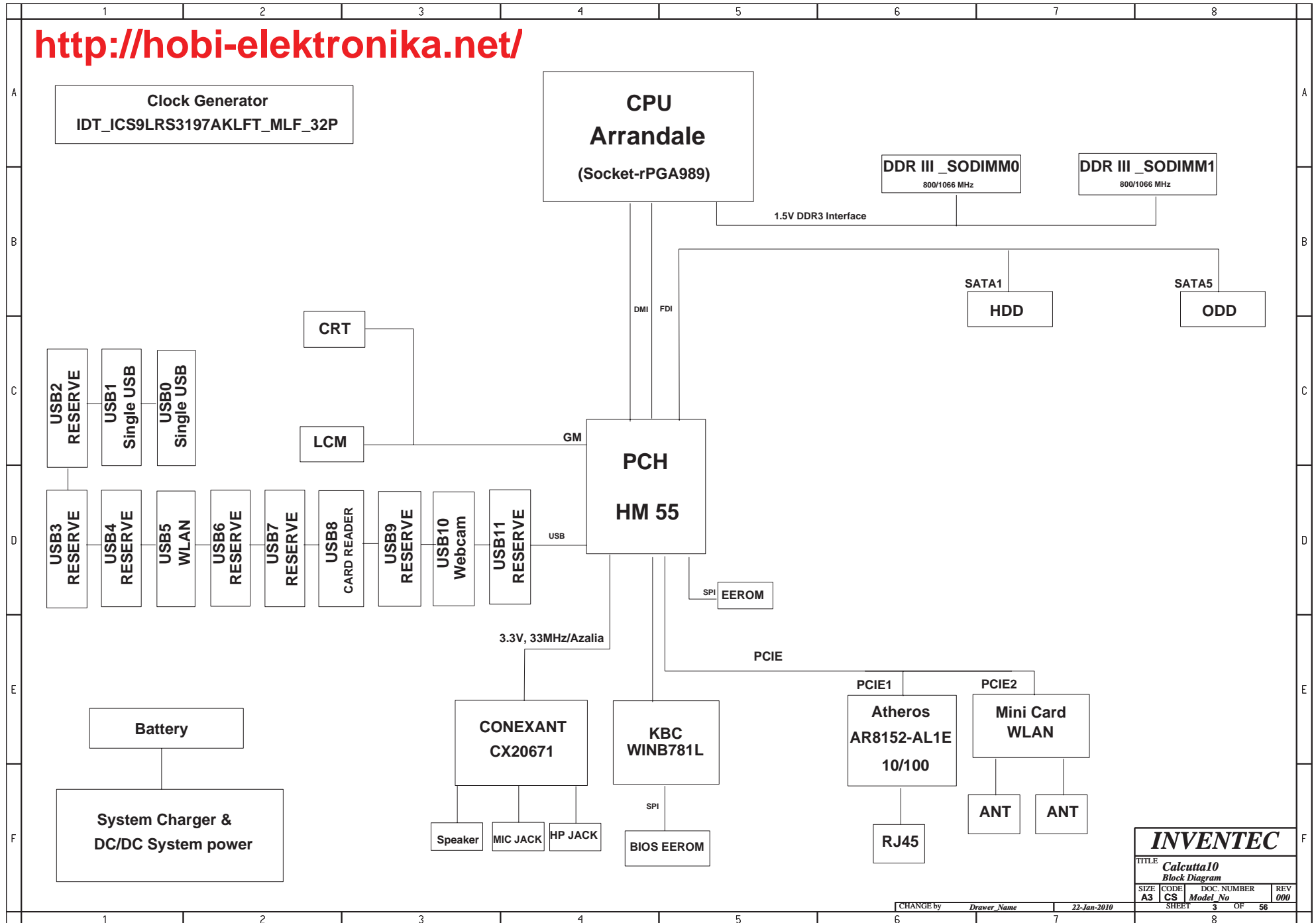
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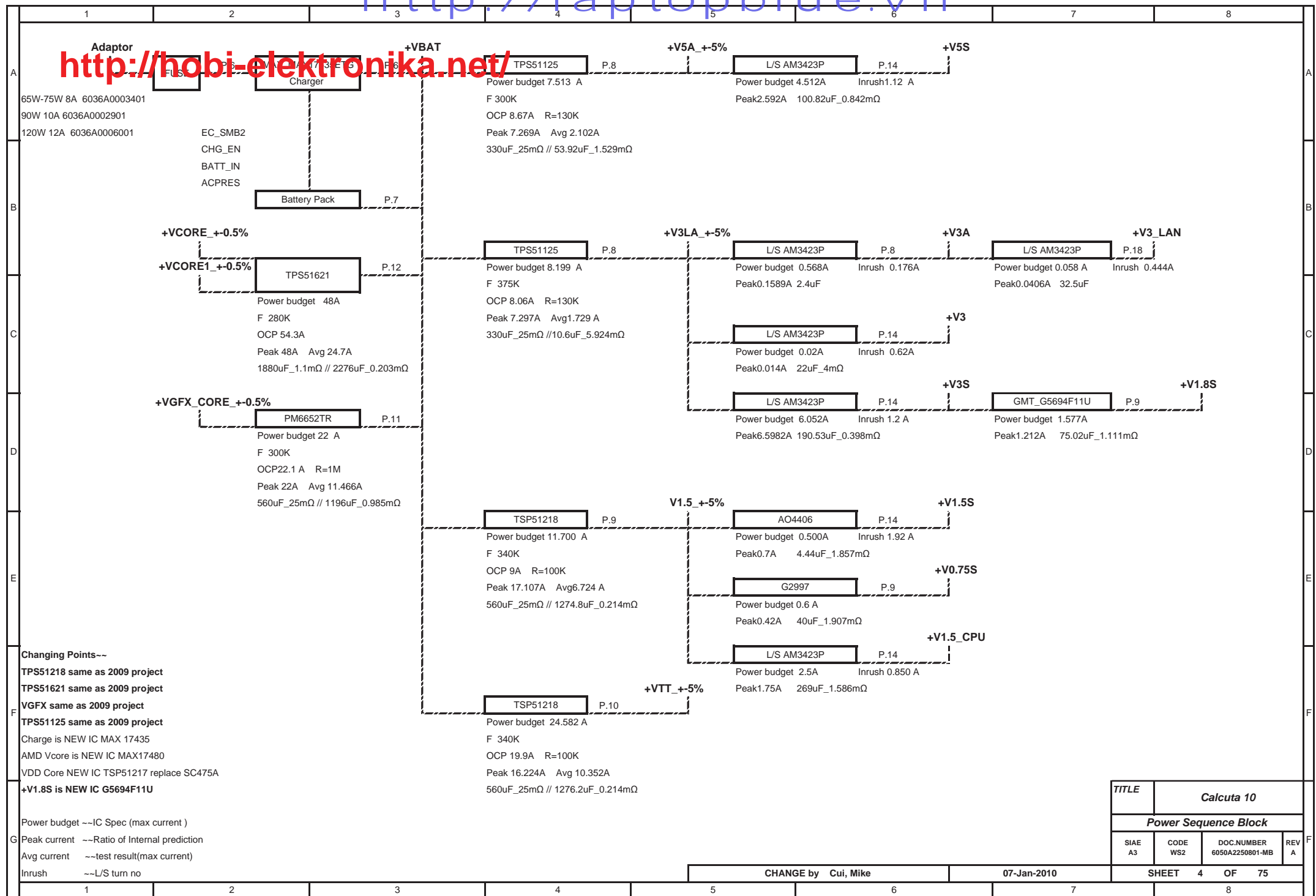
CHANGE by *Drawer Name* 7-Jan-2010

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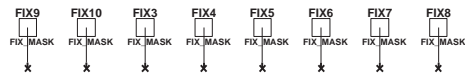


INVENTEC			
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Block Diagram			
SIZE A3	CODE CS	DOC. NUMBER <i>Model No</i>	REV 000
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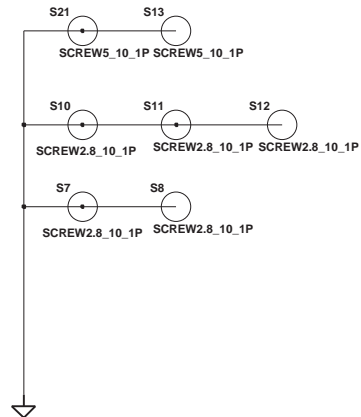
CHANGE by *Drawer Name* 22-Jan-2010



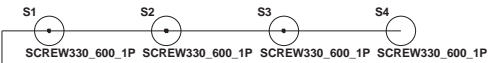
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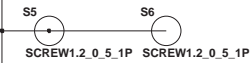
PCB



CPU



PCH



FAN



WLAN

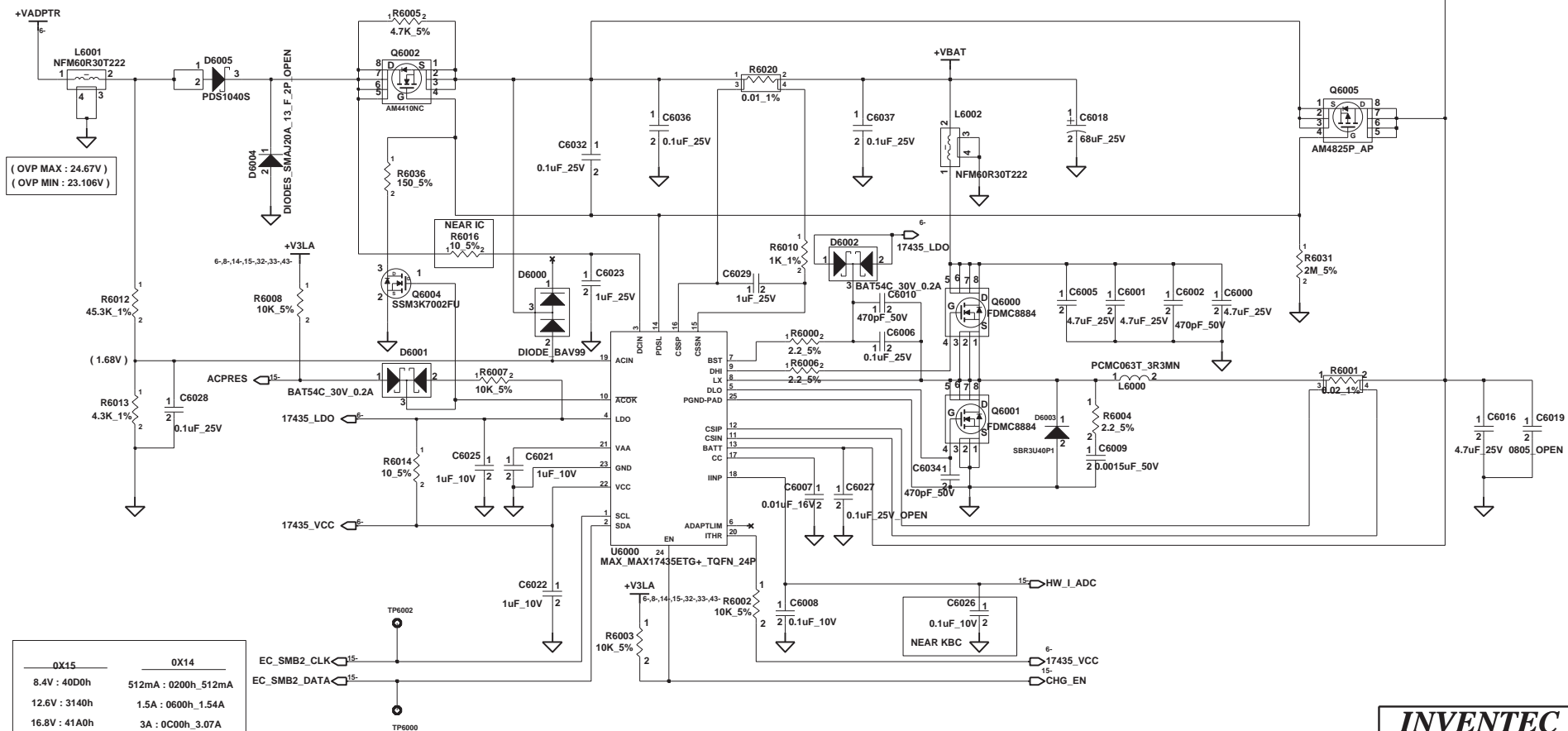
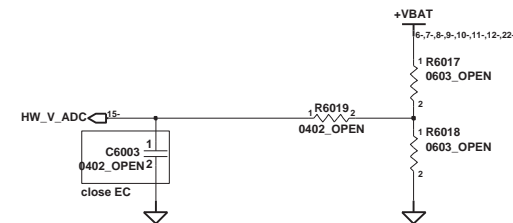


INVENTEC

TITLE Calcutta10 PCB			
SIZE A3	CODE CS	DOC. NUMBER <i>Model No</i>	REV 000
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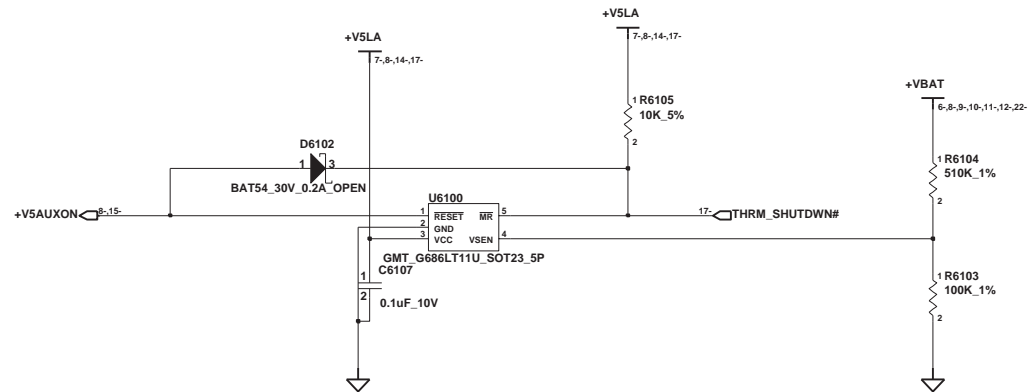
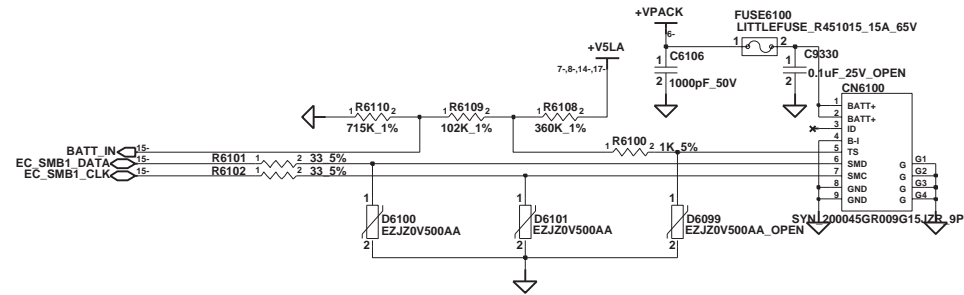
65_75W 8A(6036A0003401)
90W 10A(6036A0002901)
120W 12A(6036A0006001)



0X15	0X14
8.4V : 40D0h	512mA : 0200h_512mA
12.6V : 3140h	1.5A : 0600h_1.54A
16.8V : 41A0h	3A : 0C00h_3.07A

TITLE			
Calcutta10 Charger			
SIZE	CODE	DOC. NUMBER	REV
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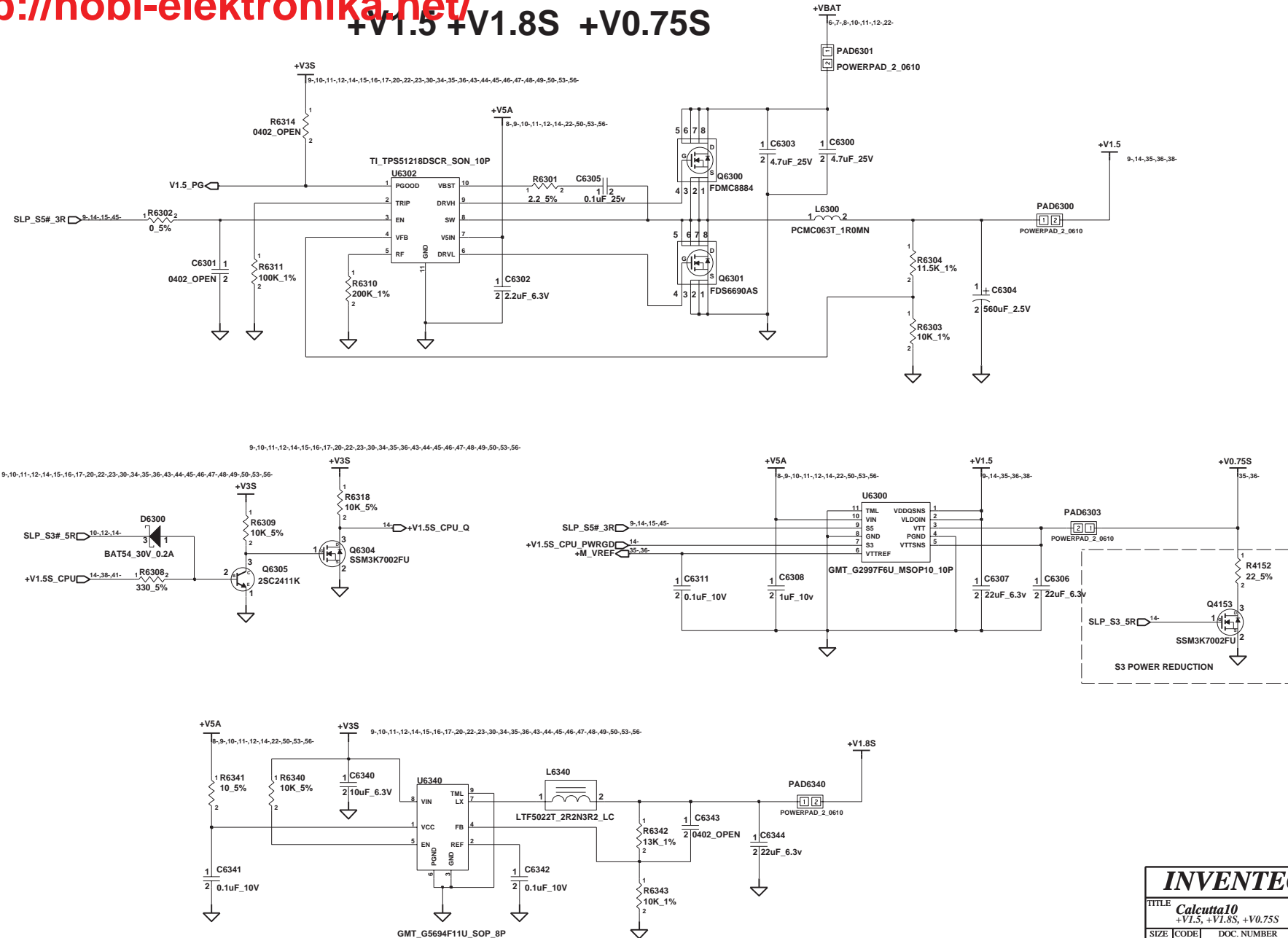


INVENTEC			
TITLE			
Calcutta10			
Battery, Reset IC			
SIZE	CODE	DOC. NUMBER	REV
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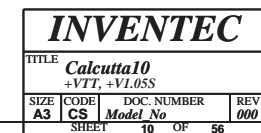
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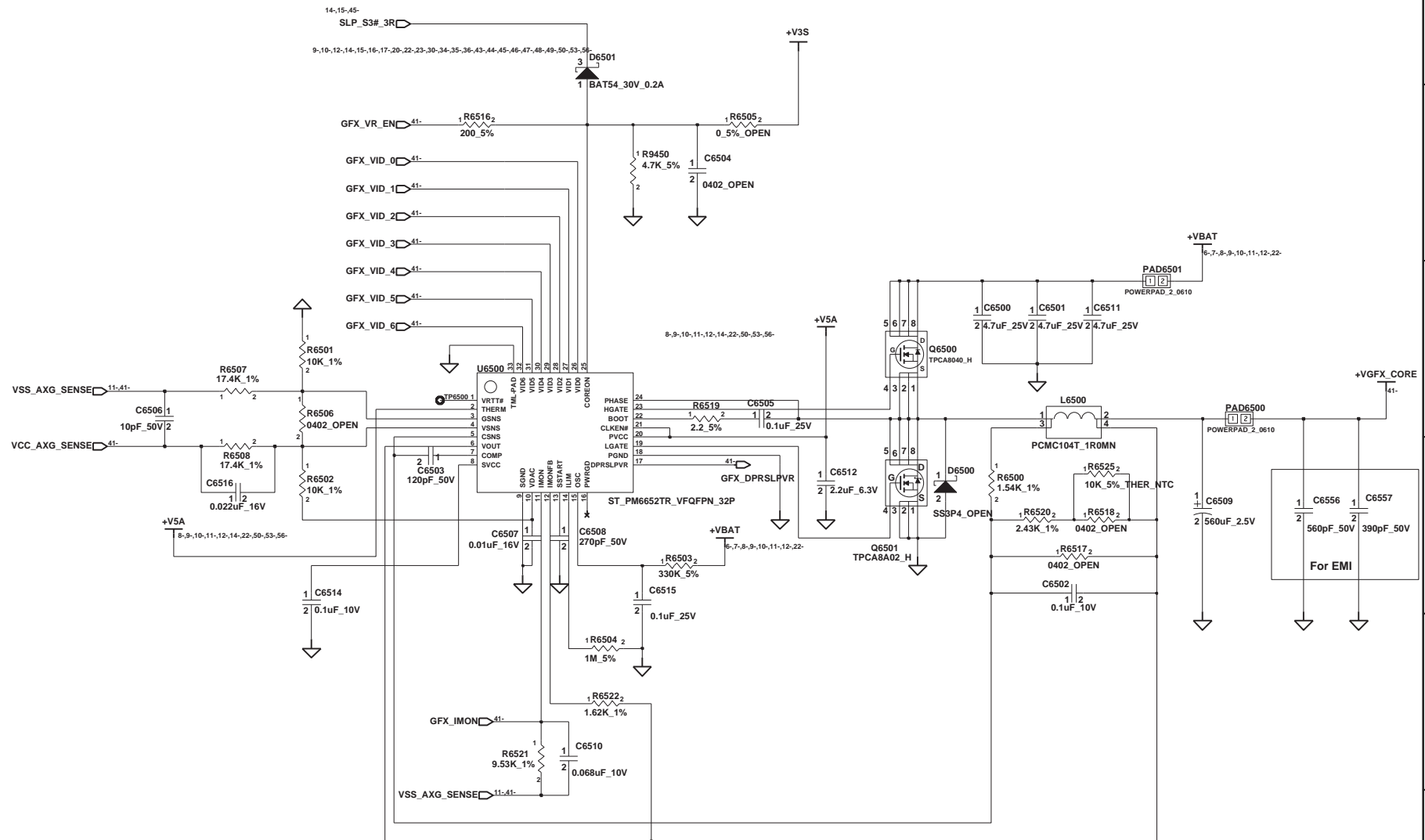


+V1.5 +V1.8S +V0.75S



INVENTEC			
TITLE <i>Calcutta10</i> +V1.5, +V1.8S, +V0.75S			
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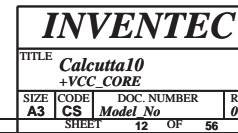
INVENTEC

TITLE
Calcutta10
+VGFX_CORE

SIZE A3	CODE CS	DOC. NUMBER Model No	REV 000
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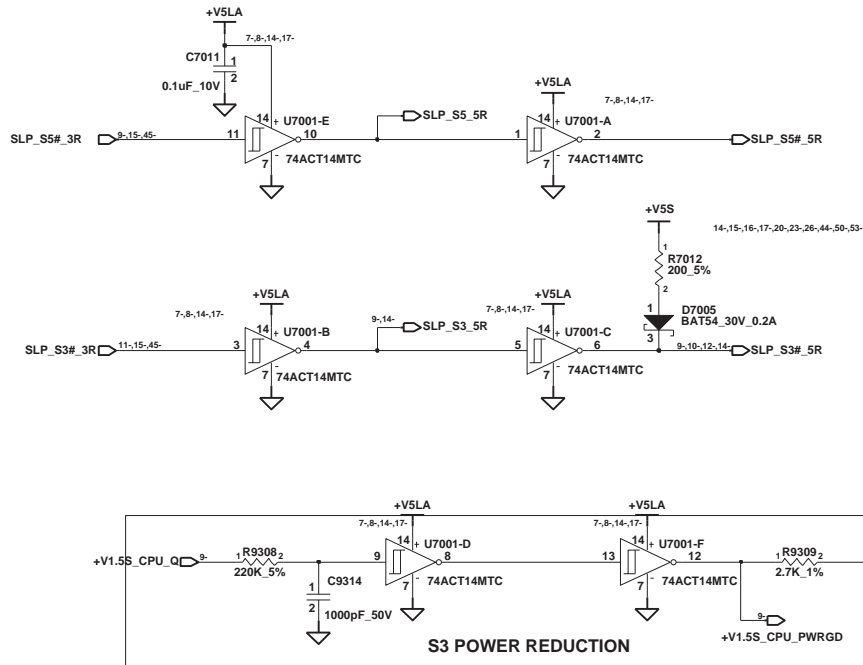
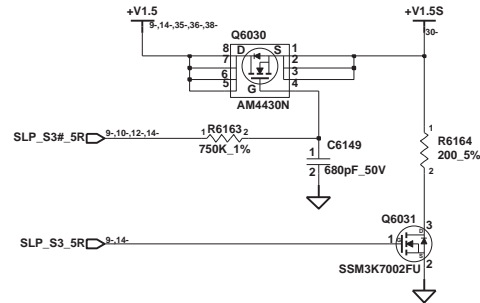
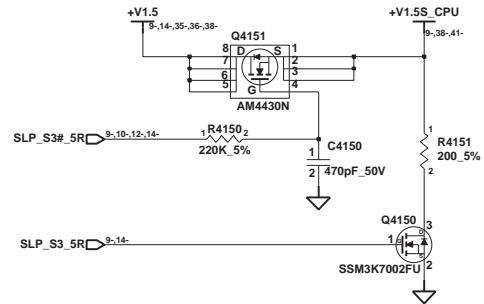
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SIZE A3	CODE CS	DOC. NUMBER <i>Model No</i>	REV 000
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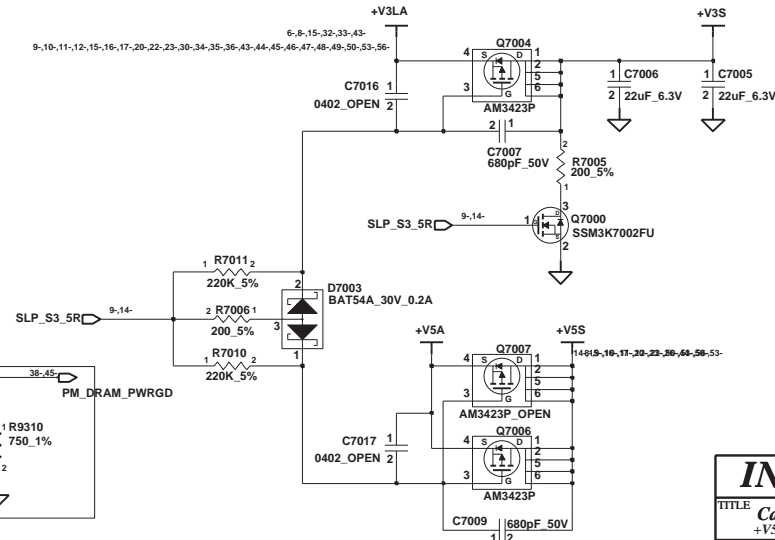
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+V5S +V3S +V1.5S +V1.5S_CPU

S3 POWER REDUCTION

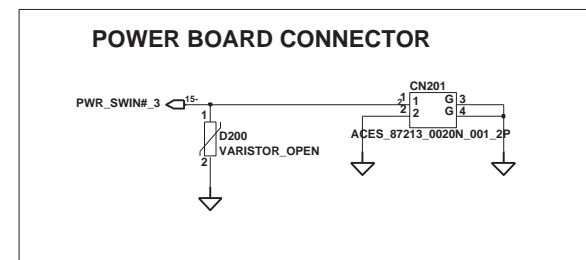
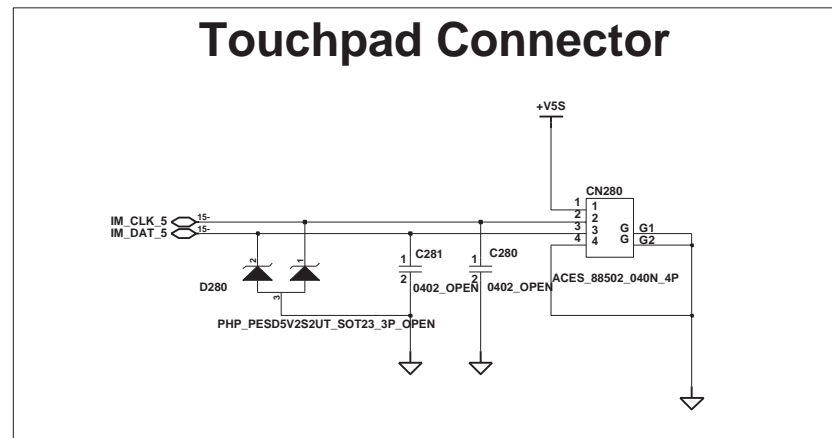
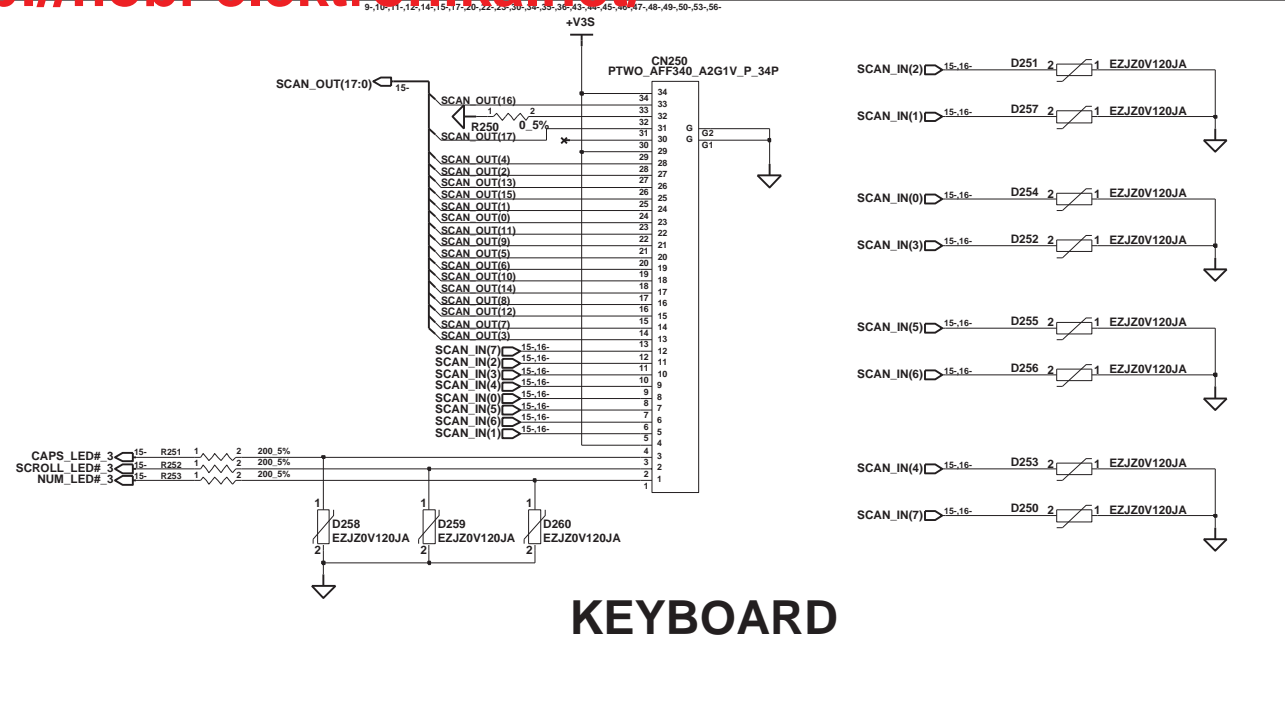


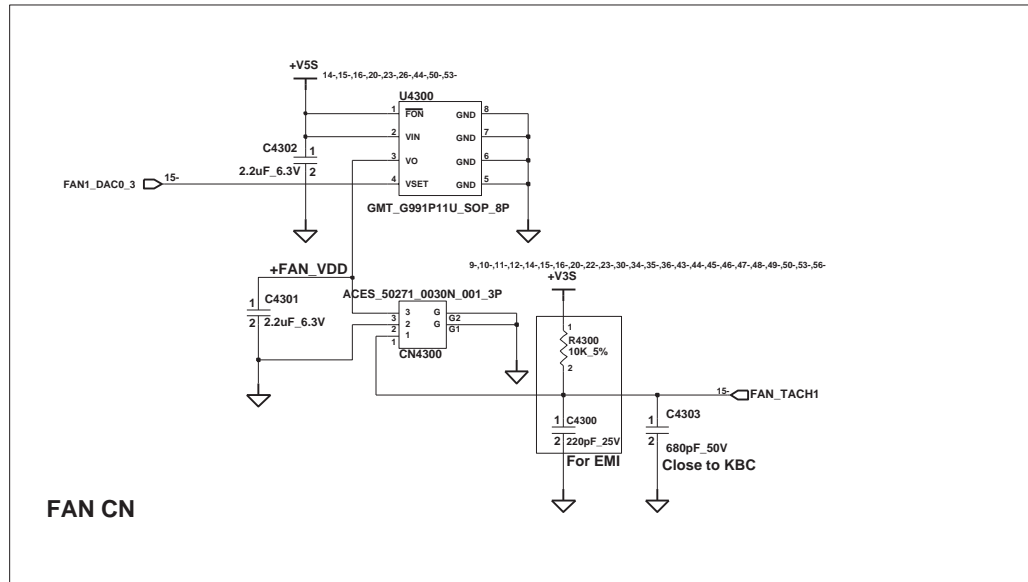
S3 POWER REDUCTION



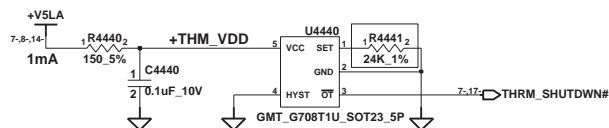


INVENTEC			
TITLE <i>Calcutta10</i>			
EC			
SIZE	CODE	DOC. NUMBER	REV
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SOFT 15 OF 50 15 OF 50			





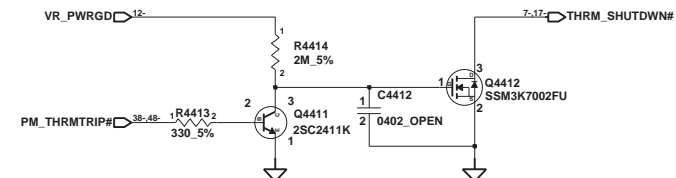
Board Thermal Sensor



Thermal shutdown at 85 C° +/- 3 C° from 60 C° to 100 C°

$$RSET = 0.0012 * T^2 - 0.9308 * T + 96.147$$

Hysteresis is 30C



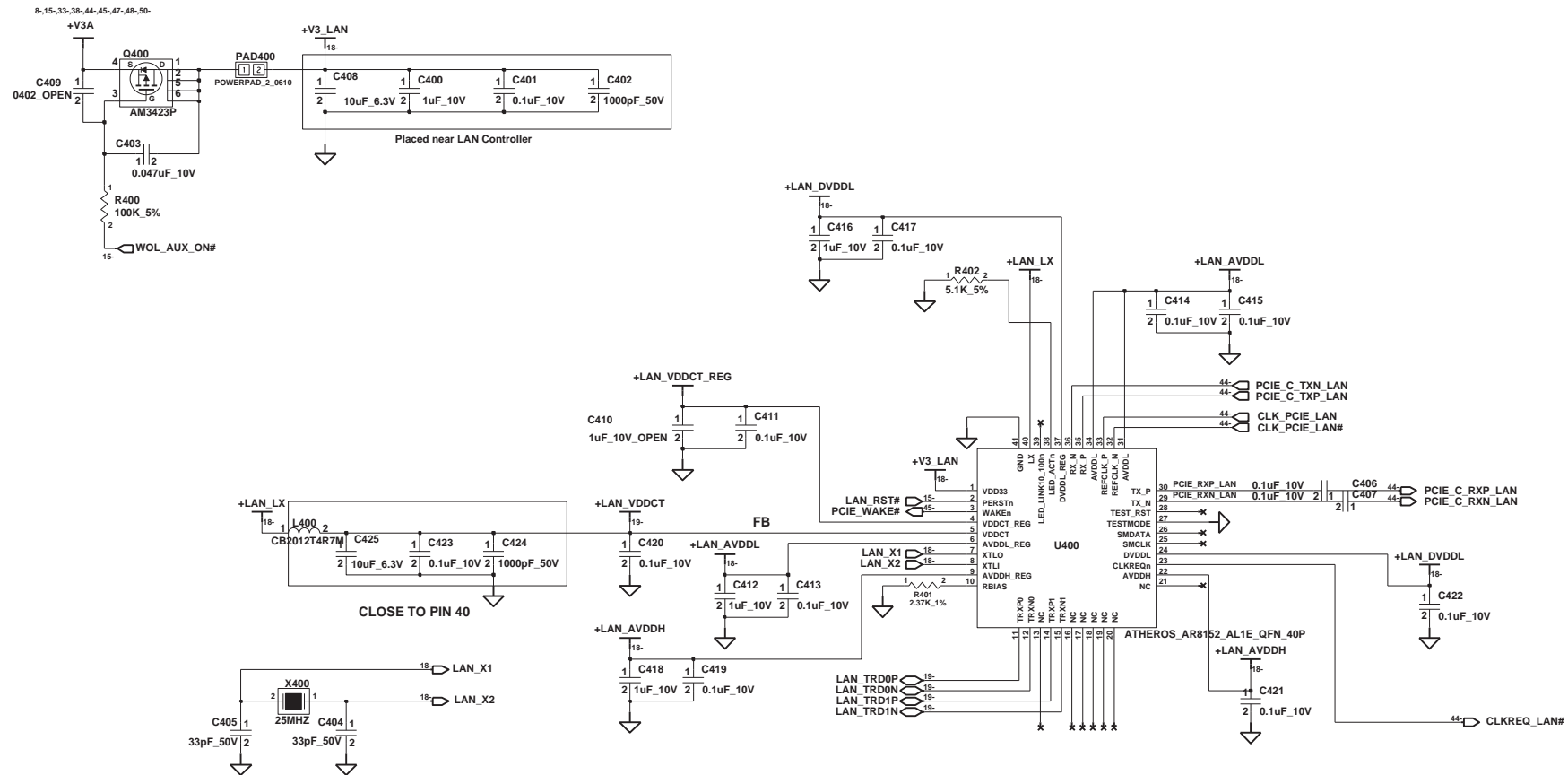
INVENTEC

TITLE
Calcutta10
FAN, Thermal controller

SIZE	CODE	DOC. NUMBER	REV
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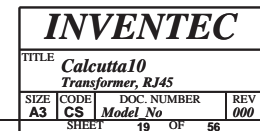
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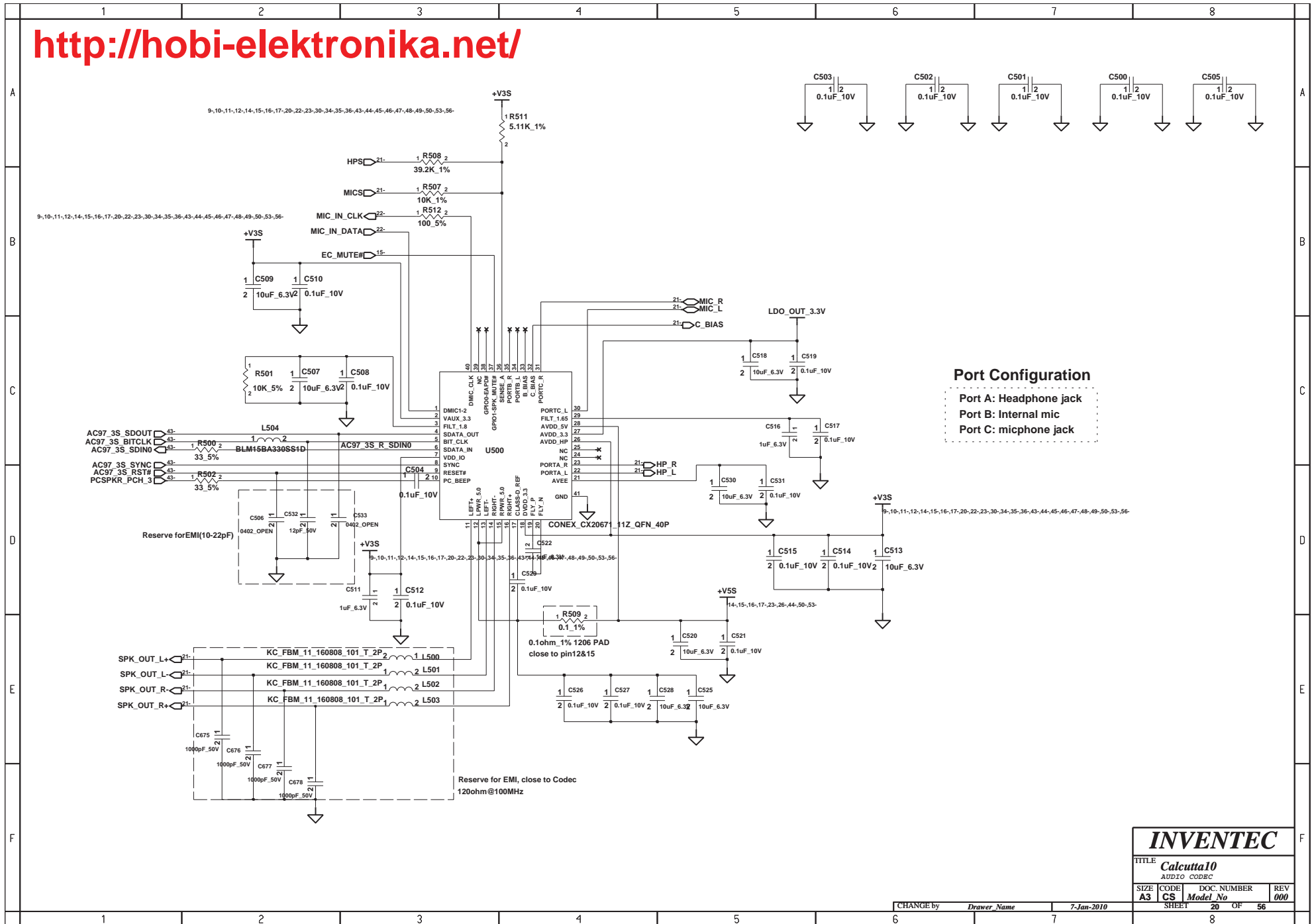


INVENTEC

TITLE			
Calcutta10			
LAN			
SIZE	CODE	DOC. NUMBER	REV
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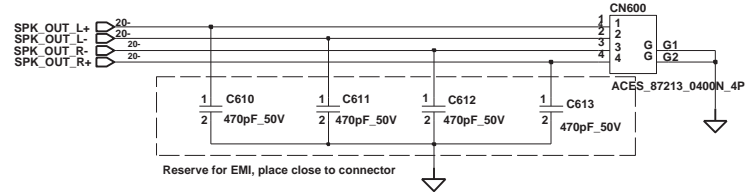
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TITLE			
Calcutta10			
AUDIO CODEC			
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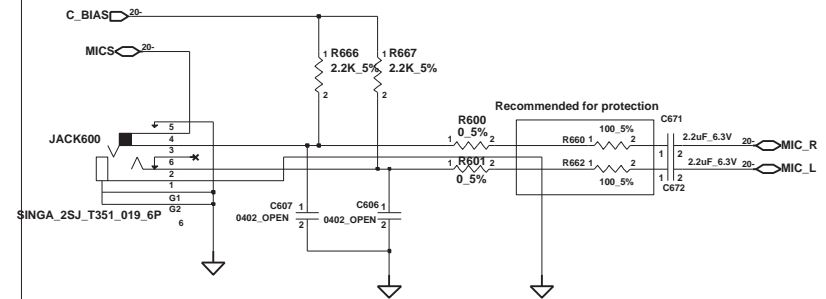
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INTERNAL SPEAKERS

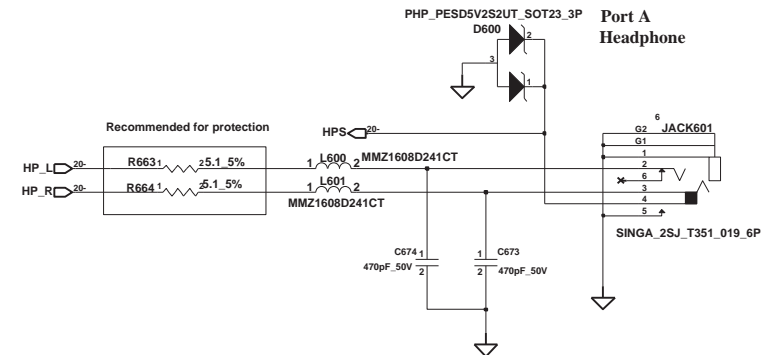


AUDIO JACKS

Port C
External microphone



Port A
Headphone

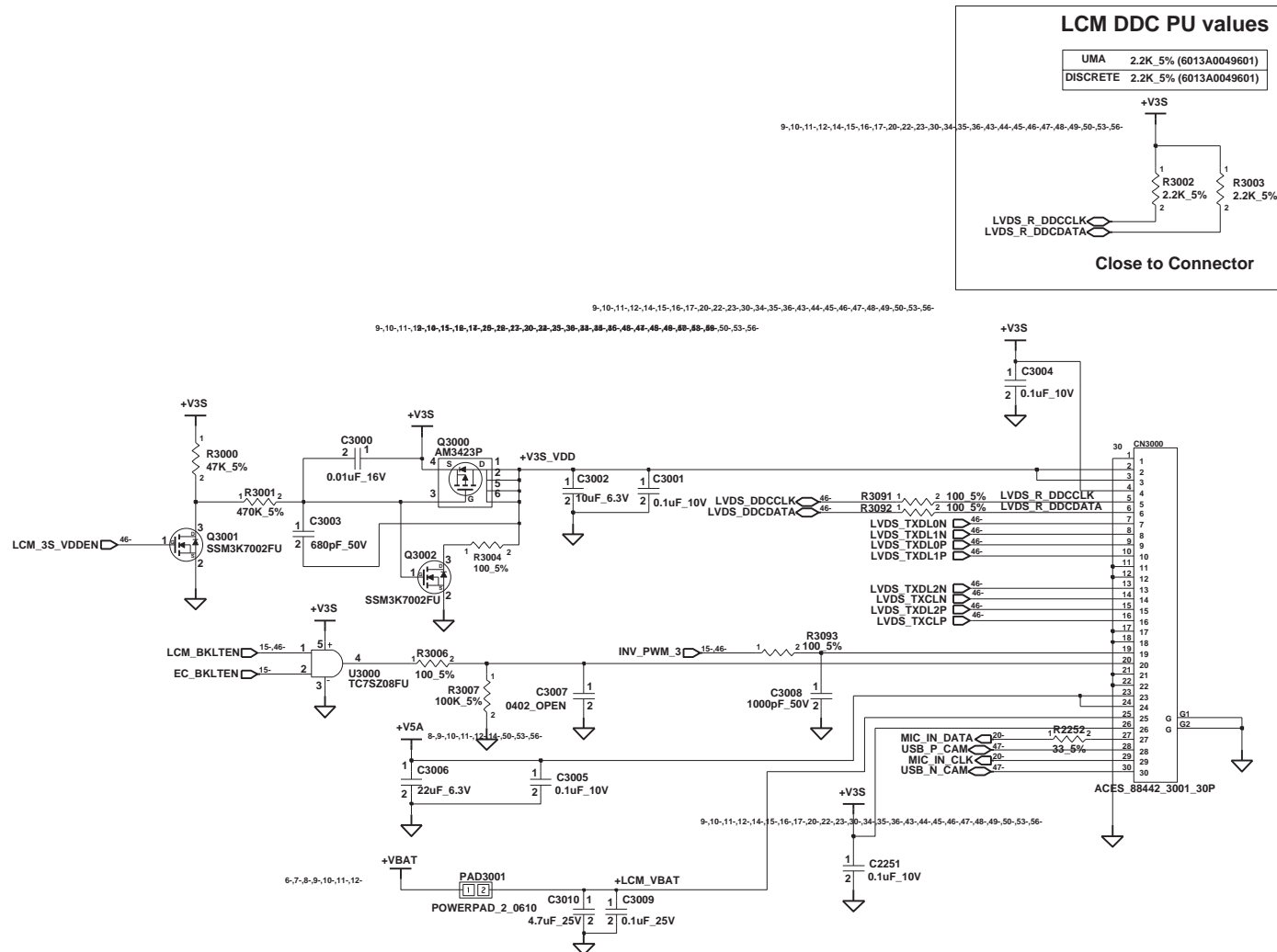


INVENTEC

TITLE			
Calcutta10 AUDIO JACK			
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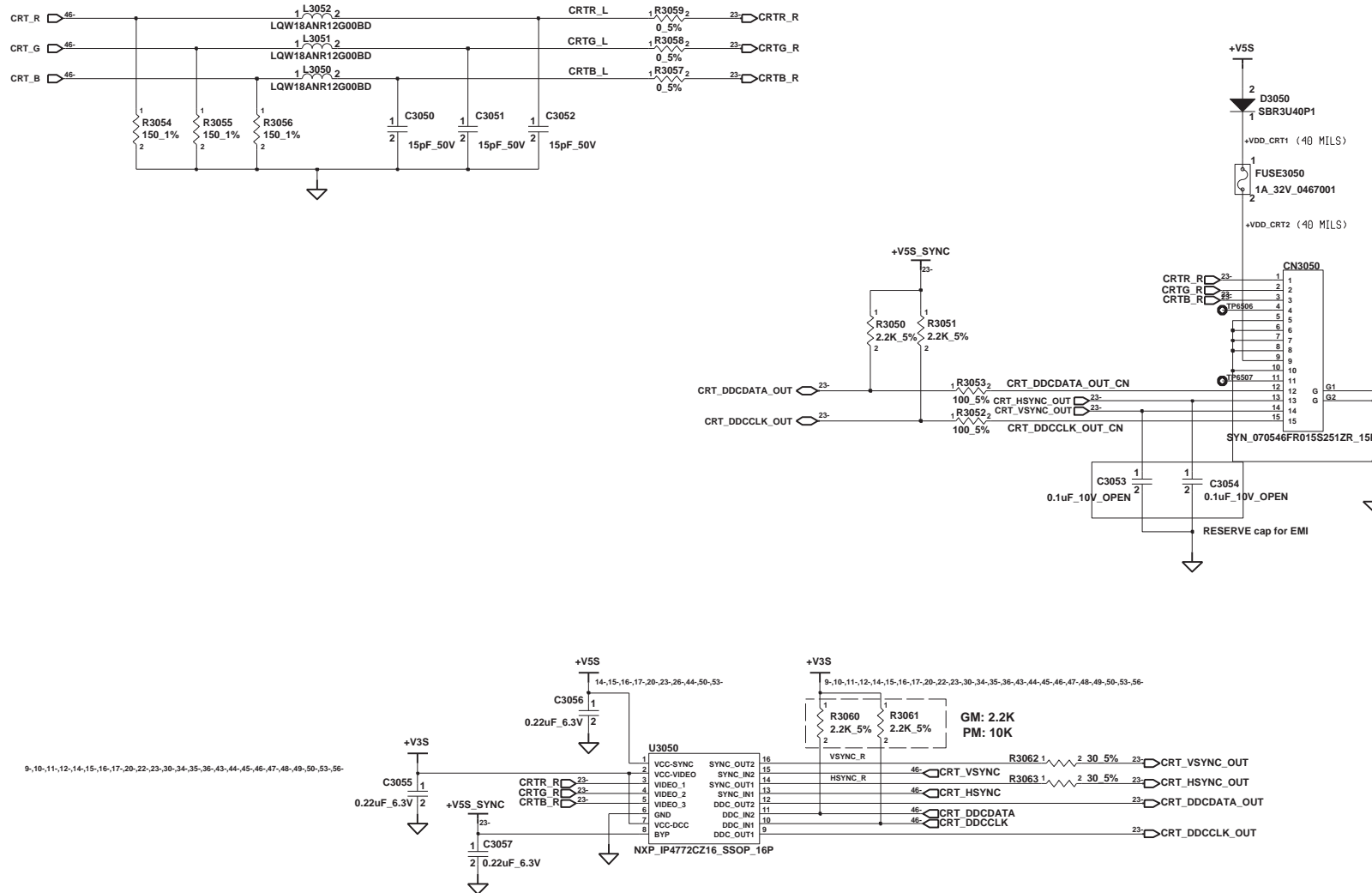
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INVENTEC

TITLE			
Calcutta10			
LCM			
SIZE	CODE	DOC. NUMBER	REV
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TITLE			
Calcutta10			
CRT			
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INVENTEC			
TITLE <i>Calcutta10</i> HDMI LEVEL SHIFTER			
SIZE A3	CODE CS	DOC. NUMBER <i>Model No</i>	REV 000
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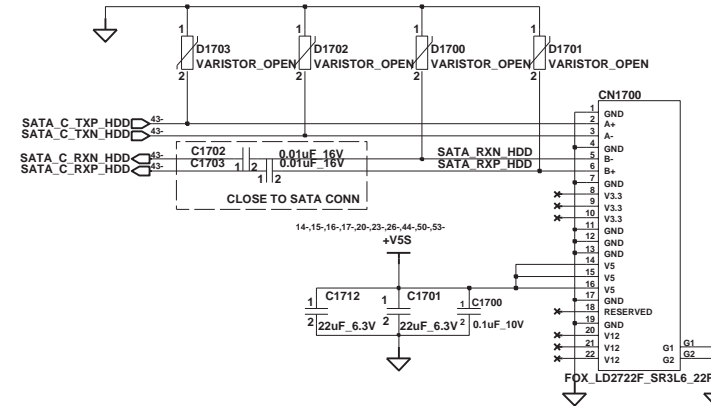
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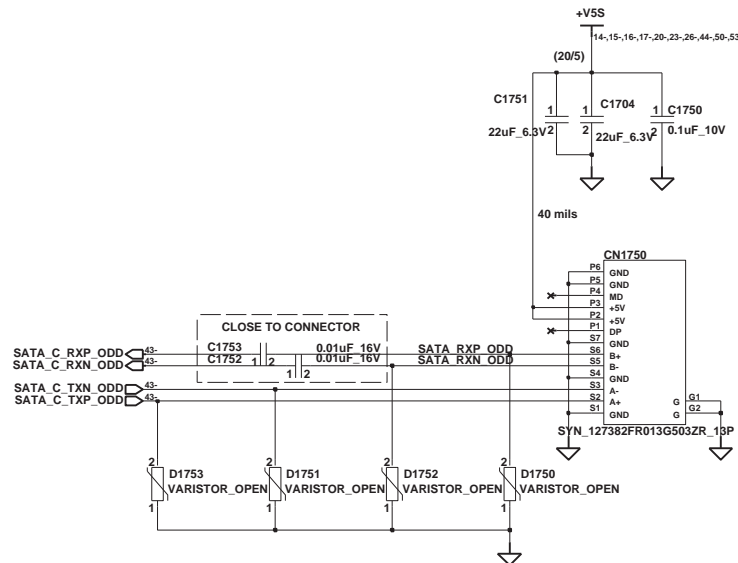
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TITLE <i>Calcutta10 HDMI</i>			
SIZE A3	CODE CS	DOC. NUMBER <i>Model No</i>	REV 000
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SATA HDD



SATA ODD

INVENTEC			
TITLE			
Calcutta10			
SATA HDD, SATA ODD			
SIZE	CODE	DOC. NUMBER	REV
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INVENTEC			
TITLE <i>Calcutta10</i> CARD READER & USB CNTR			
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INVENTEC			
TITLE <i>Calcutta10</i>			
USB & eSATA COMBO			
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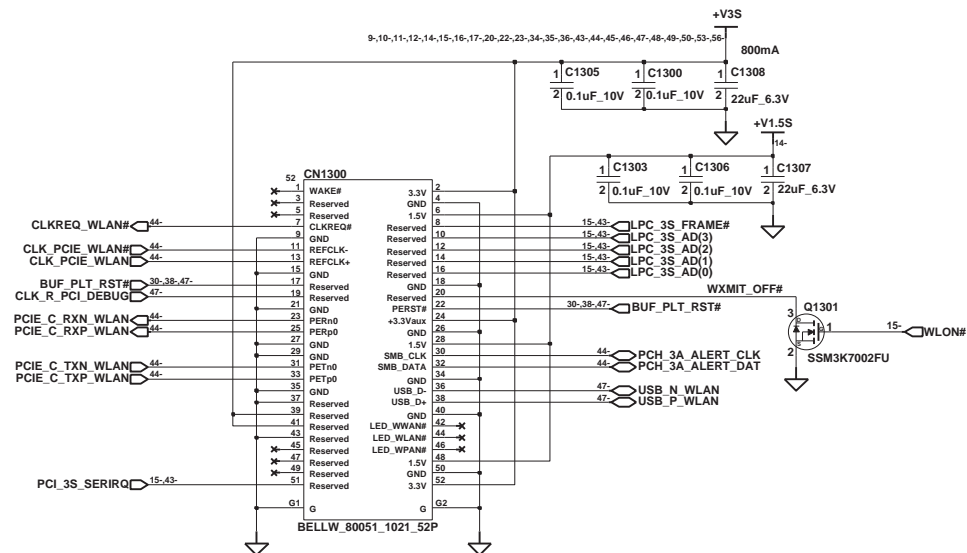
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Wireless & Debug card



INVENTEC

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Calcutta10			
WLAN			
SIZE	CODE	DOC. NUMBER	REV
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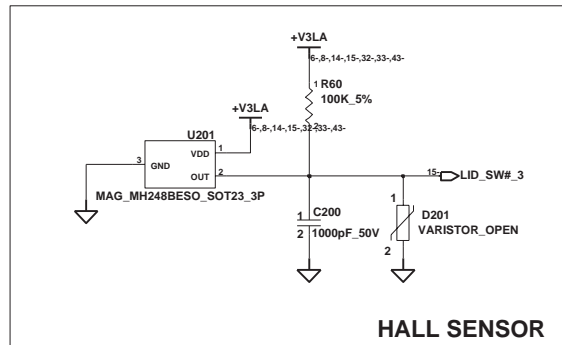
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3G			
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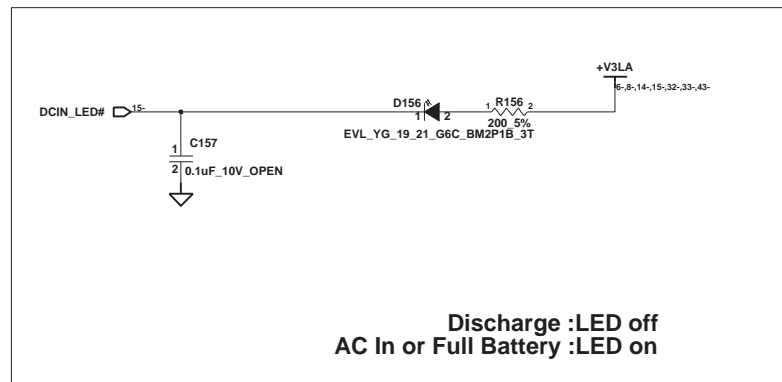
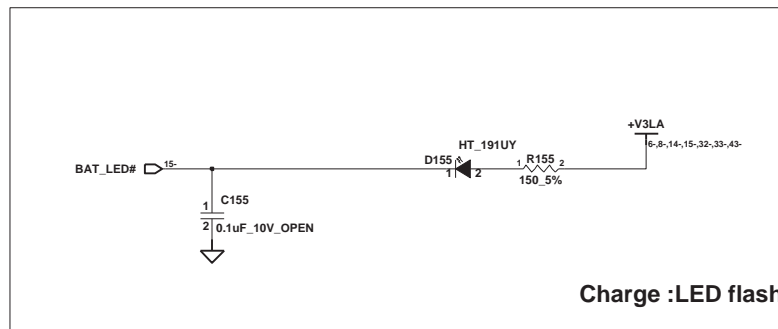
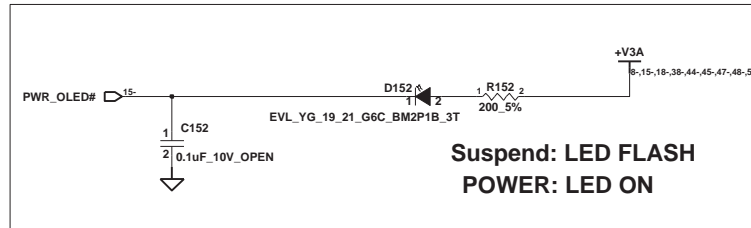
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TITLE <i>Calcutta10</i> Hall Sensor			
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INVENTEC			
TITLE <i>Calcutta10 LED</i>			
SIZE A3	CODE CS	DOC. NUMBER <i>Model No</i>	REV 000
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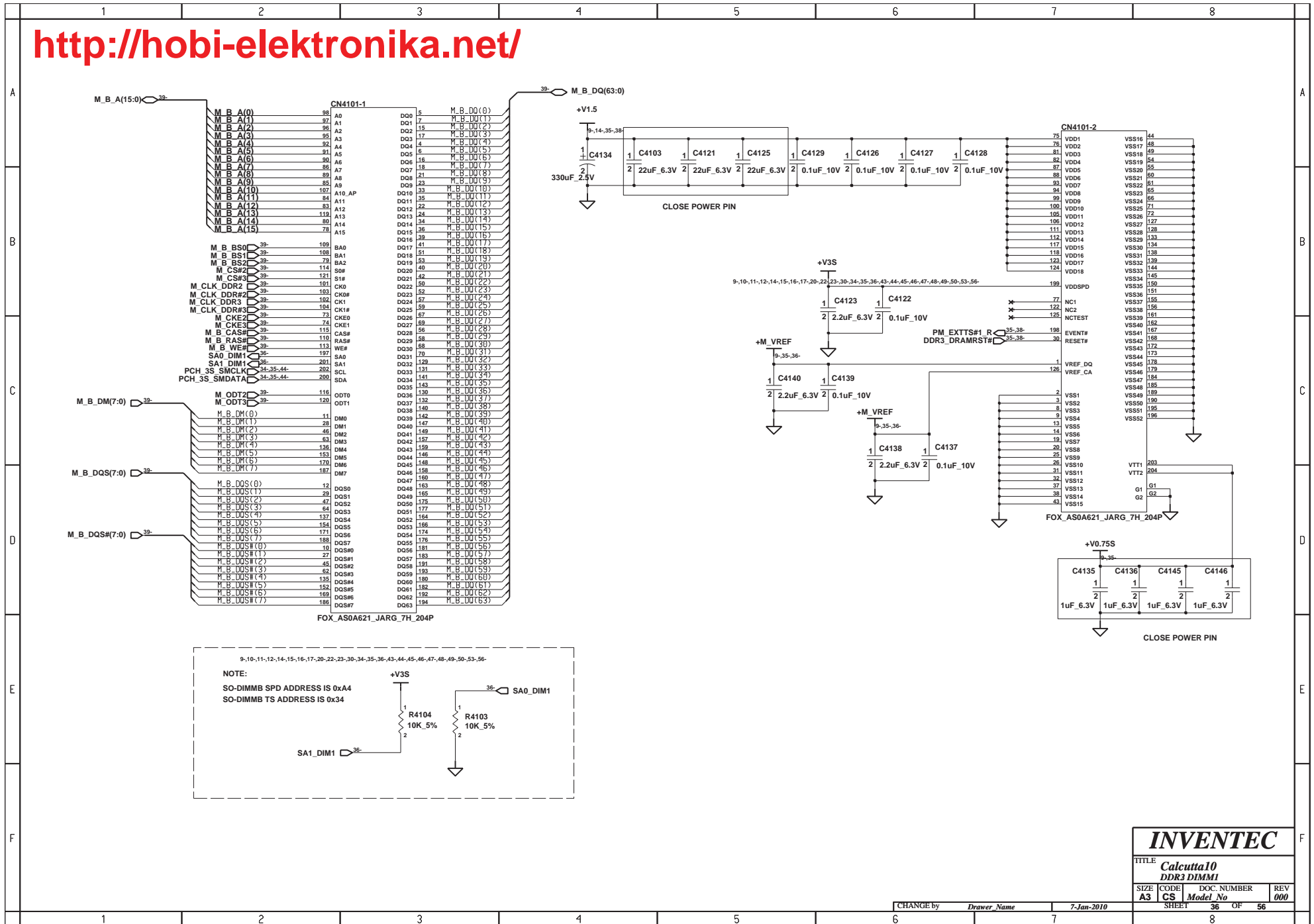
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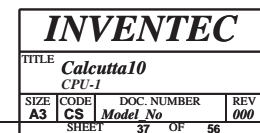
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TITLE
Calcutta10
DDR3 DIMM1

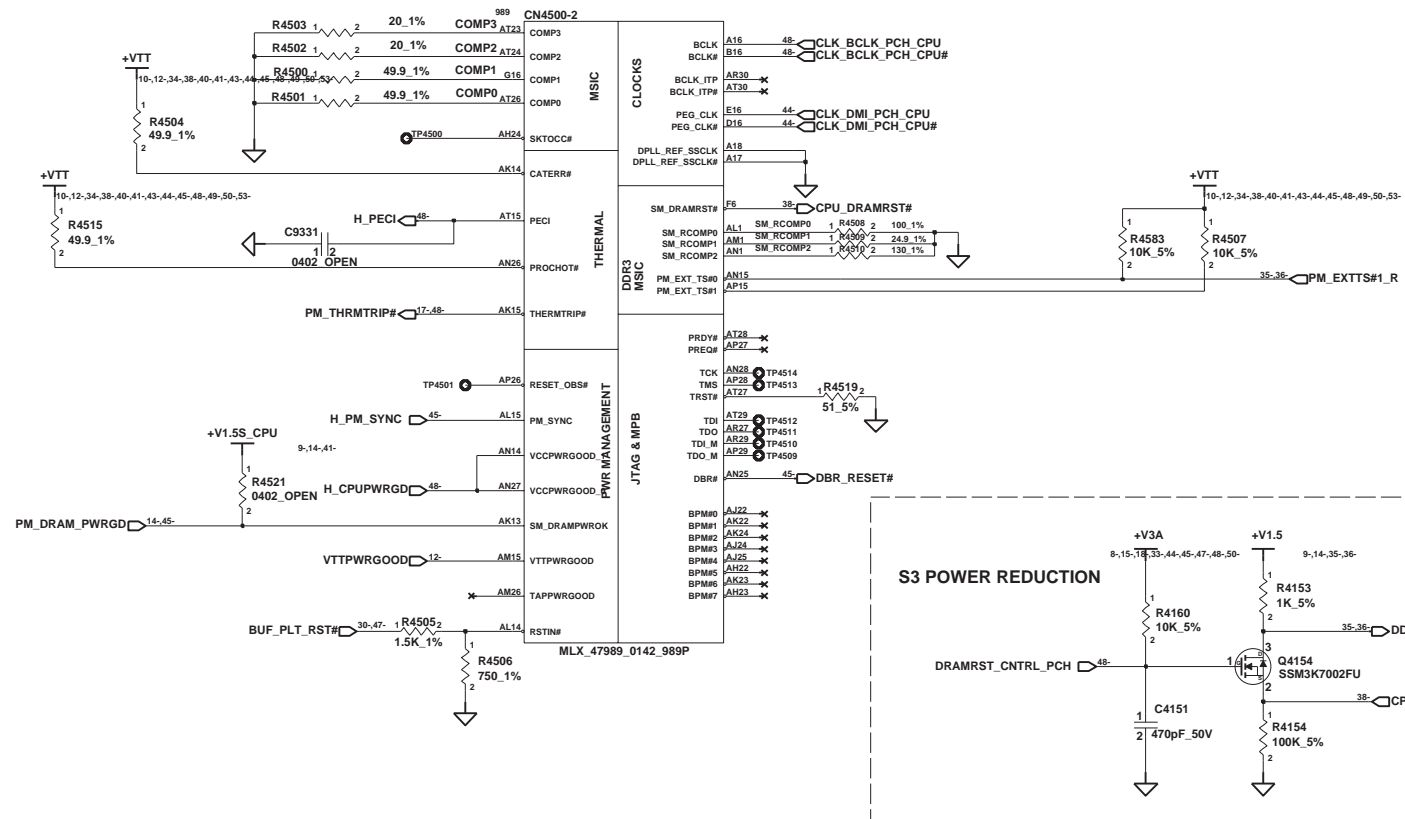
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INVENTEC

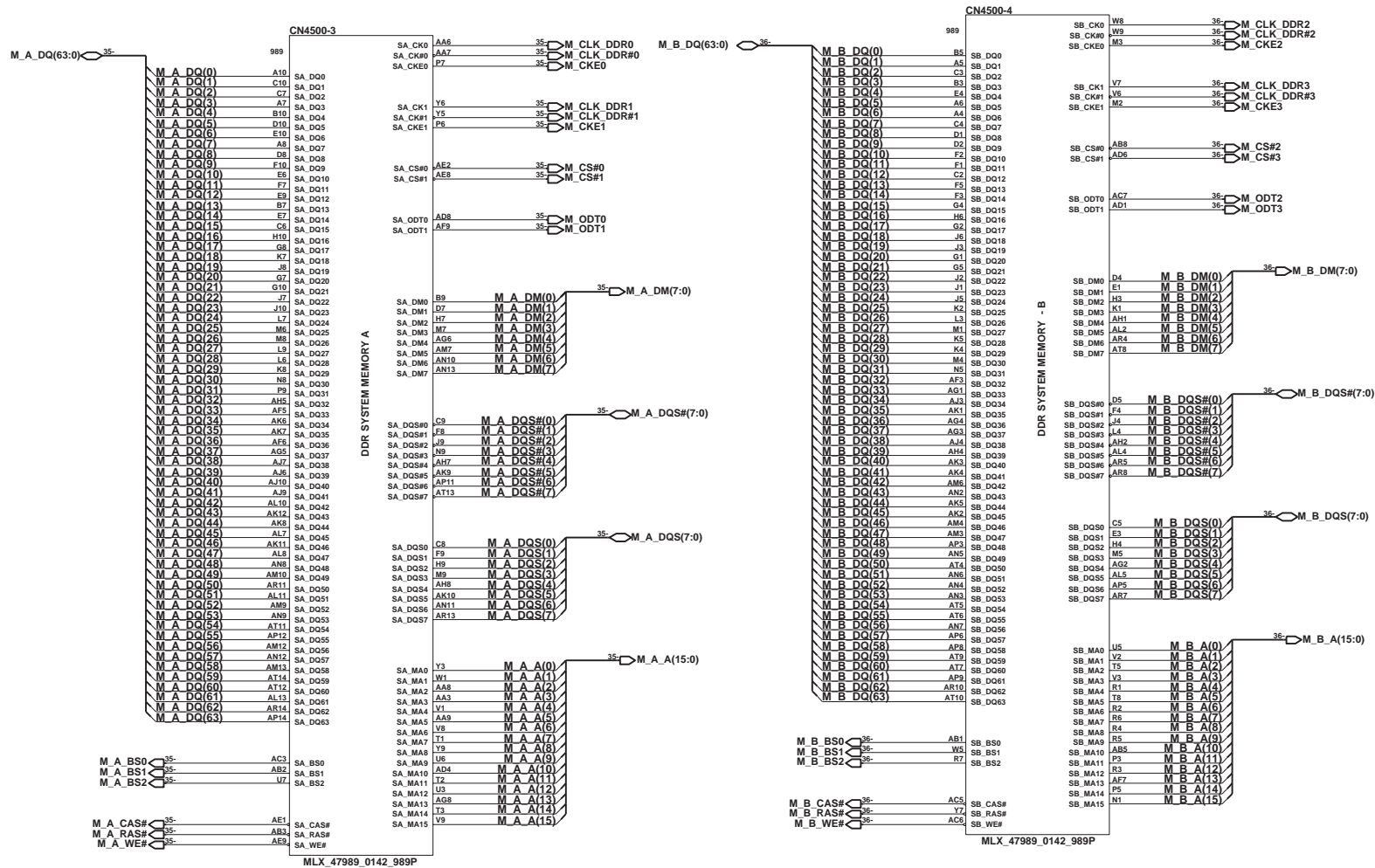
TITLE
Calcutta10
CPU-2

SIZE A3	CODE CS	DOC. NUMBER Model No	REV 000
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INVENTEC

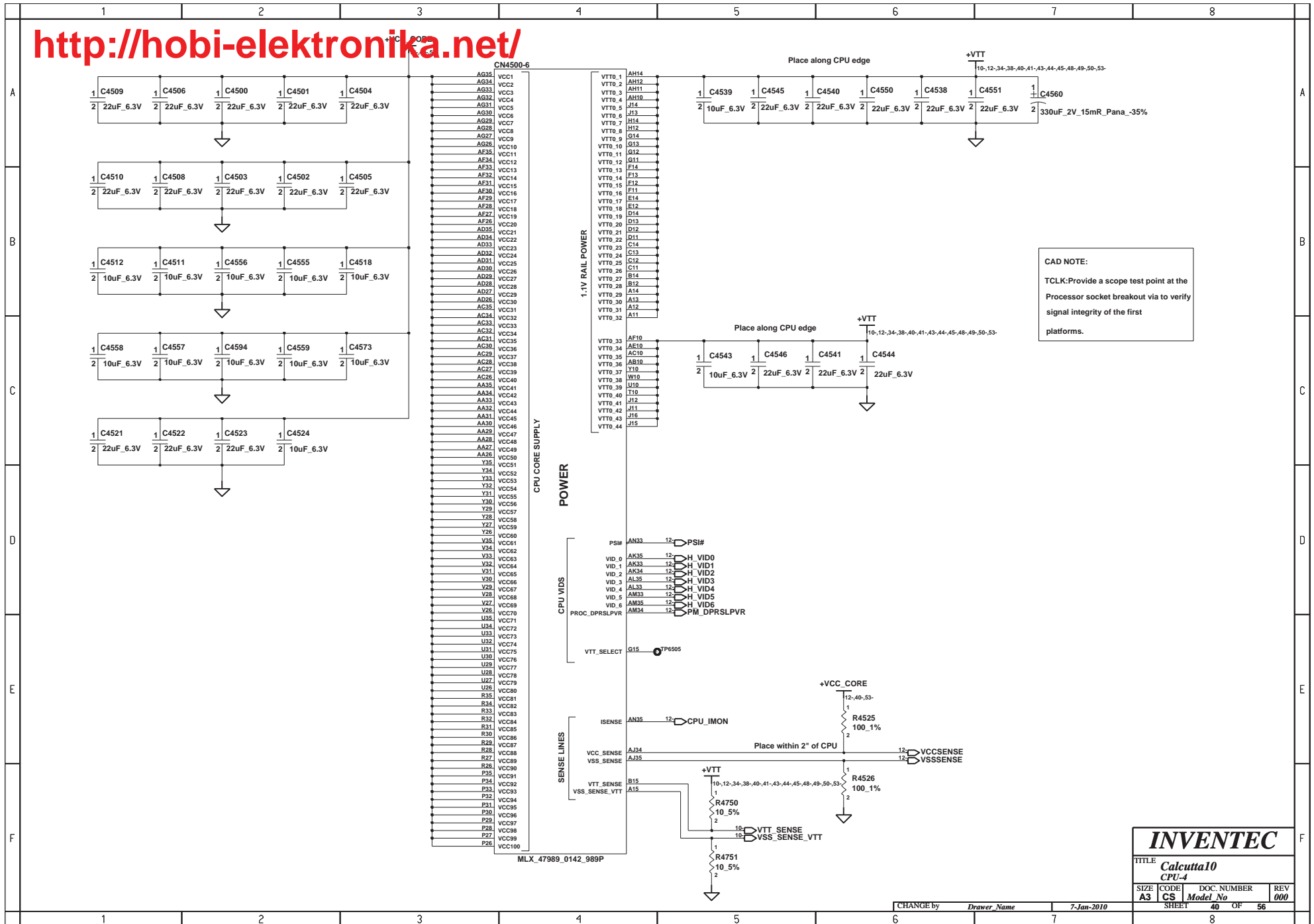
TITLE
Calcutta10
CPU-3
SIZE
A3
CODE
CS
DOC. NUMBER
Model No
REV
000

CHANGE by
Drawer Name
2-Mar-2010

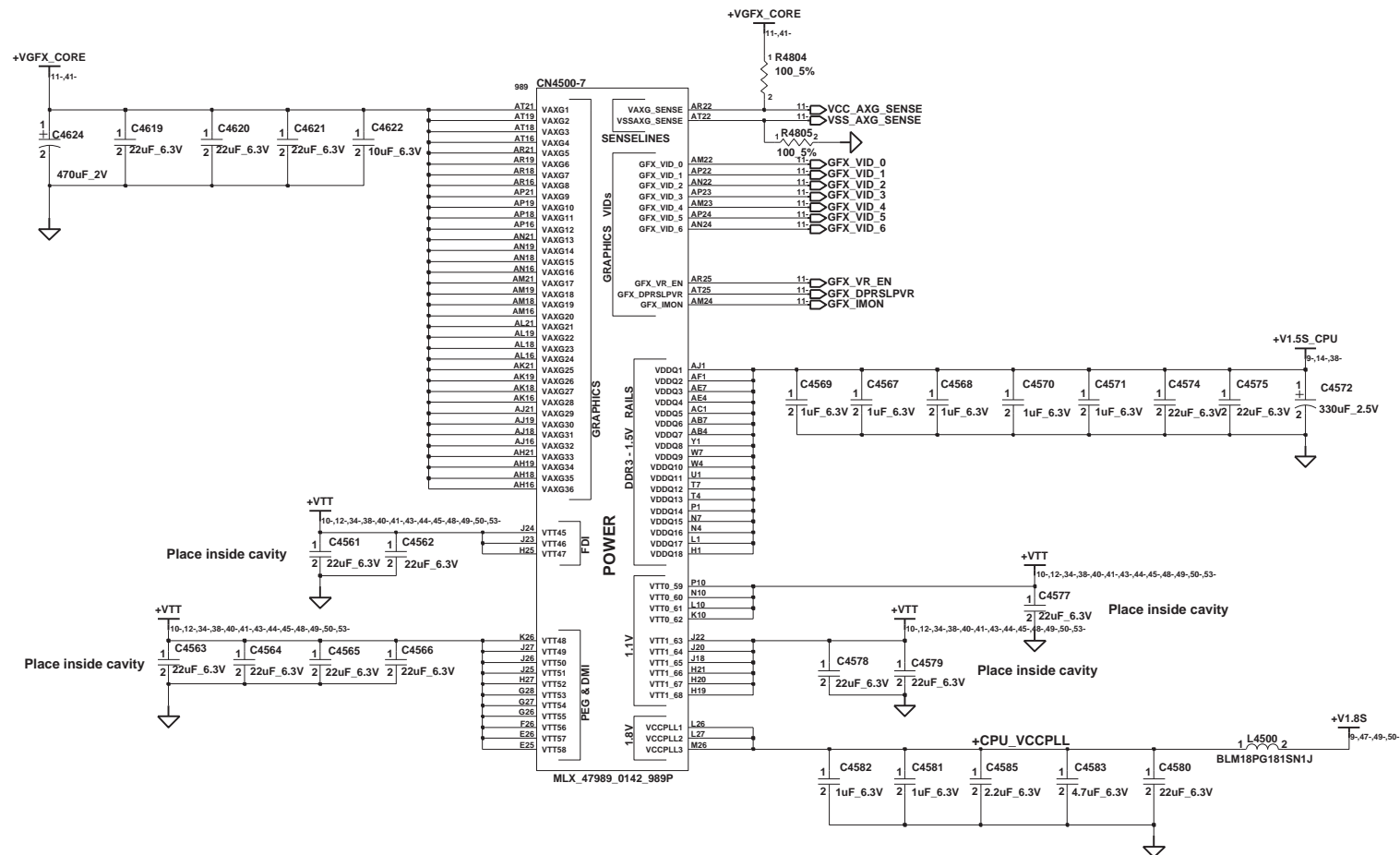
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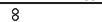
INVENTEC

TITLE
Calcutta10
CPU-5

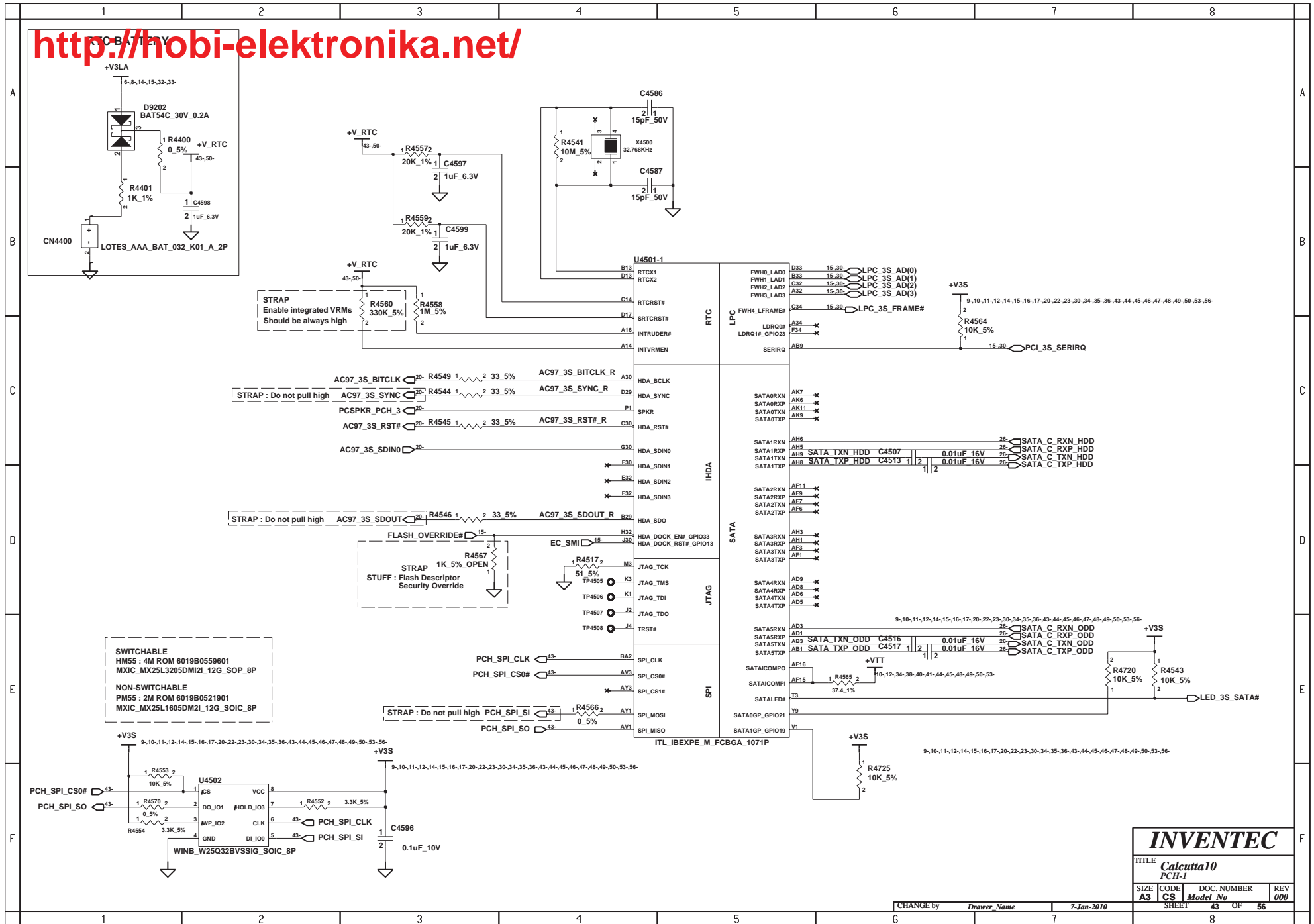
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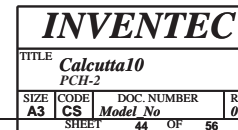
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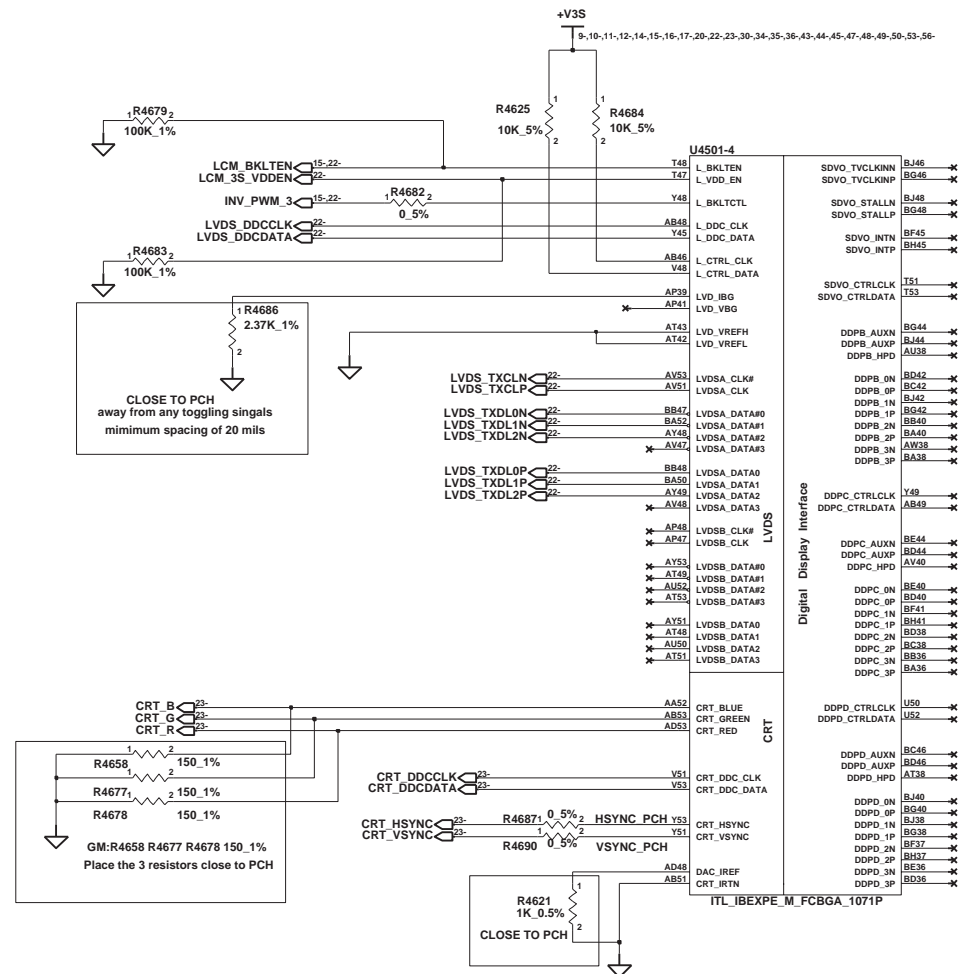






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INVENTEC

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Calcutta10			
PCH-4			
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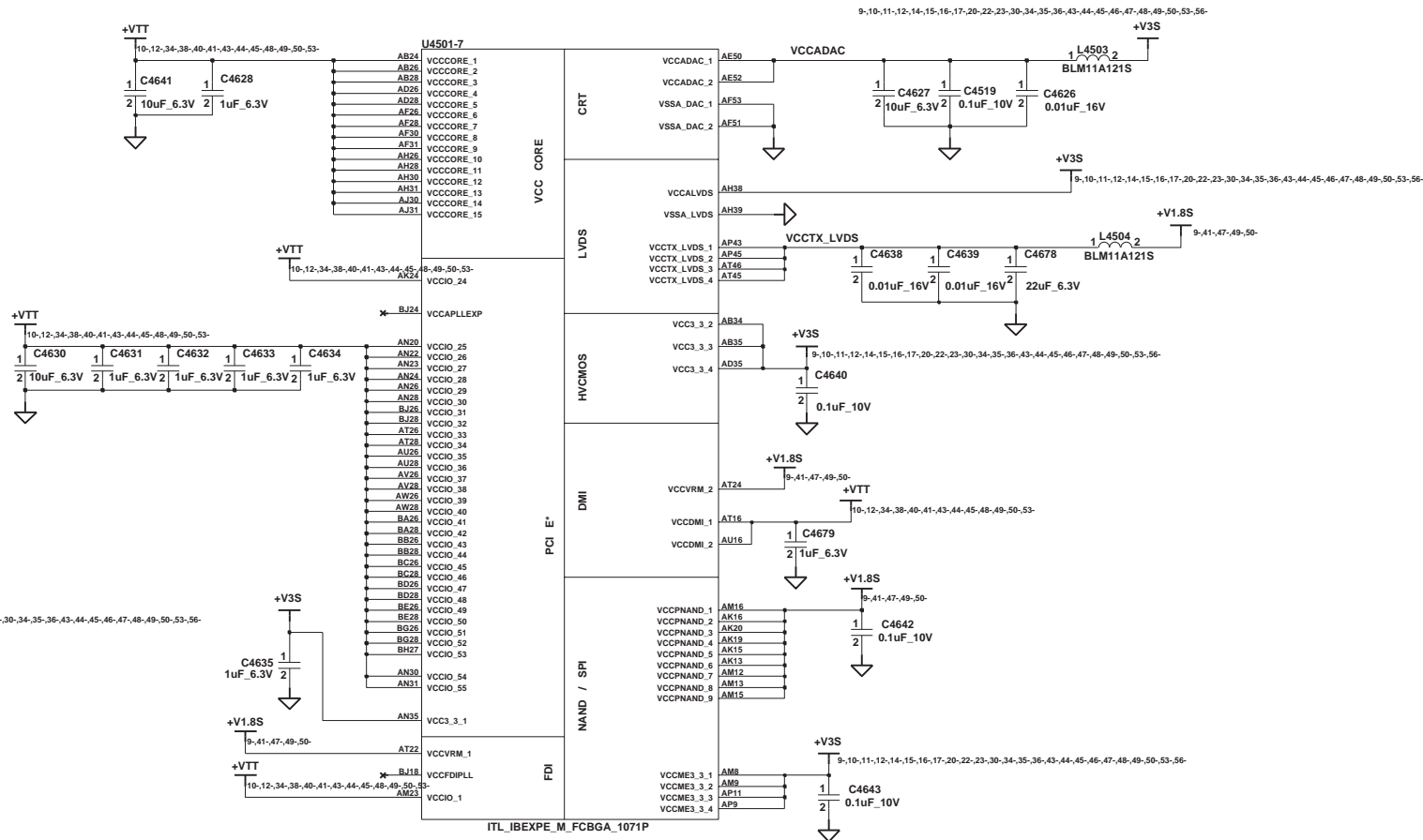
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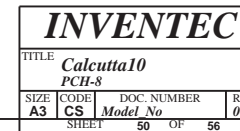
INVENTEC

TITLE
Calcutta10
PCH-7

SIZE A3	CODE CS	DOC. NUMBER Model No	REV 000
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B									B
C									C
D									D
E									E
F									F
		U4501-9		U4501-10					
		AB16		AY7		H49			
		VSS_0		VSS_159		VSS_259			
		AA19		B11		VSS_160		H5	
		AA20		B15		VSS_161		J24	
		AA22		B19		VSS_162		K11	
		AM19		B23		VSS_163		K43	
		AA24		B31		VSS_164		K47	
		AA26		B35		VSS_165		K7	
		AA28		B39		VSS_166		L14	
		AA30		B43		VSS_167		L18	
		AA31		B47		VSS_168		L2	
		AA32		B7		VSS_169		L22	
		AB11		BB12		VSS_170		L32	
		VSS_11		BB16		VSS_171		L36	
		VSS_12		BB20		VSS_172		L40	
		AB15		BB24		VSS_173		L52	
		AB23		BB30		VSS_174		M12	
		AB30		BB34		VSS_175		M16	
		AB31		BB38		VSS_176		M20	
		AB32		BB42		VSS_177		M38	
		AB33		BB46		VSS_178		M42	
		AB34		BB50		VSS_179		M46	
		AB35		BB54		VSS_180		M49	
		AB36		BB58		VSS_181		M8	
		AB37		BB62		VSS_182		N24	
		AB38		BB66		VSS_183		P11	
		AB39		BB70		VSS_184		P22	
		AB40		BB74		VSS_185		P30	
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		AB43		BB86		VSS_188		P42	
		AB44		BB90		VSS_189		P45	
		AB45		BB94		VSS_190		P47	
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		AB47		BB102		VSS_192		R52	
		AB48		BB106		VSS_193		T12	
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		AB50		BB114		VSS_195		T49	
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		AB53		BB126		VSS_198		U30	
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		AB55		BB134		VSS_200		U32	
		AB56		BB138		VSS_201		U34	
		AB57		BB142		VSS_202		U38	
		AB58		BB146		VSS_203		V11	
		AB59		BB150		VSS_204		V15	
		AB60		BB154		VSS_205		V20	
		AB61		BB158		VSS_206		V22	
		AB62		BB162		VSS_207		V30	
		AB63		BB166		VSS_208		V31	
		AB64		BB170		VSS_209		V32	
		AB65		BB174		VSS_210		V34	
		AB66		BB178		VSS_211		V35	
		AB67		BB182		VSS_212		V38	
		AB68		BB186		VSS_213		V43	
		AB69		BB190		VSS_214		V45	
		AB70		BB194		VSS_215		V46	
		AB71		BB198		VSS_216		V47	
		AB72		BB202		VSS_217		V49	
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		AB77		BB222		VSS_222		W52	
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		AB79		BB230		VSS_224		Y12	
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		AB81		BB238		VSS_226		Y19	
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		AB95		BB294		VSS_240		Y12	
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		AB98		BB306		VSS_243		Y15	
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		AB175		BB614		VSS_320		Y92	
		AB176		BB618		VSS_321		Y93	
		AB177		BB622		VSS_322		Y94	
		AB178		BB626		VSS_323		Y95	
		AB179		BB630		VSS_324		Y96	
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		AB181		BB638		VSS_326		Y98	
		AB182		BB642		VSS_327		Y99	
		AB183		BB646		VSS_328		Y100	
		AB184		BB650		VSS_329		Y101	
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		AB186		BB658		VSS_331		Y103	
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		AB195		BB694		VSS_340		Y112	
		AB196		BB698		VSS_341		Y113	
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		AB212		BB762		VSS_357		Y129	
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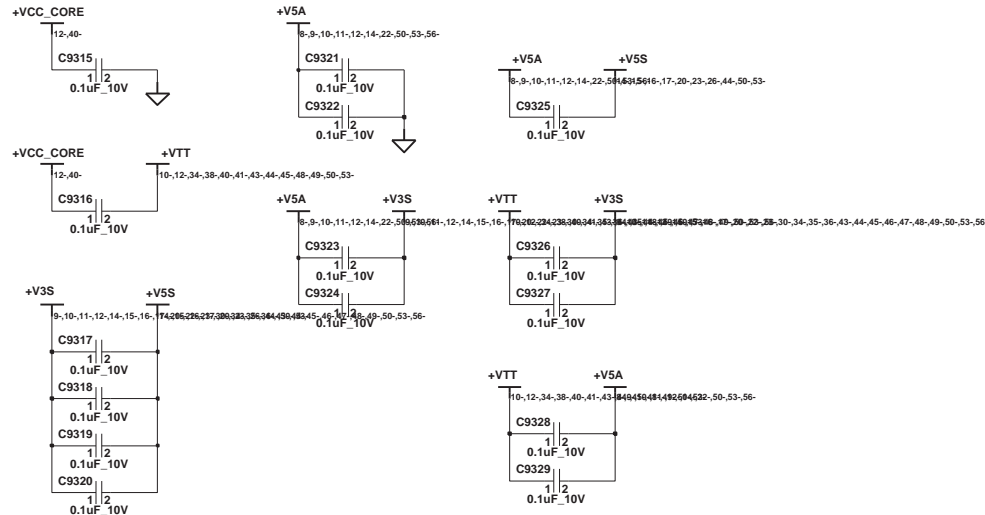
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SIZE A3	CODE CS	DOC. NUMBER <i>Model No</i>	REV 000
SHEET		52	OF 56

CHANGE by *Drawer Name* 7-Jan-2010

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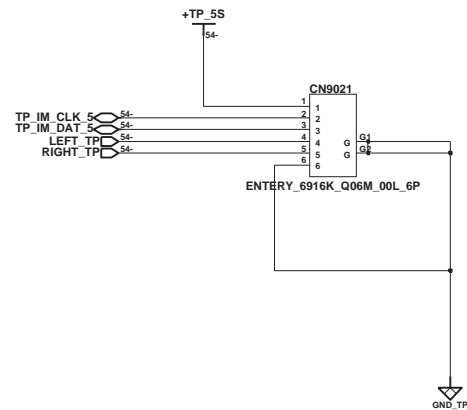
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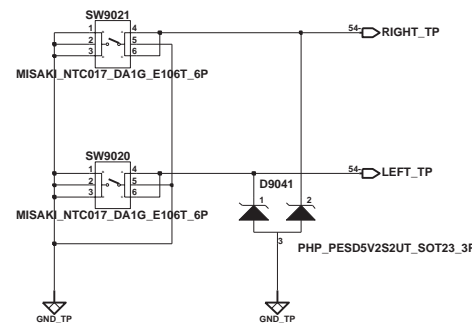
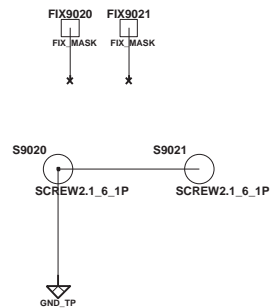
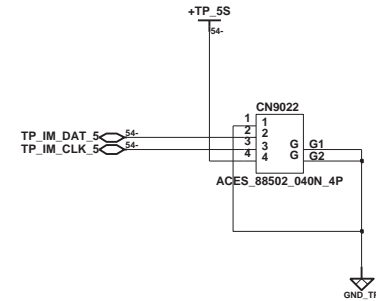
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CHANGE by Drawer Name		7-Jan-2010	
SHEET		53	OF 56

TOUCH PAD SWITCH BOARD

Connect to Touchpad Module



Connect to Mainboard's TP connector

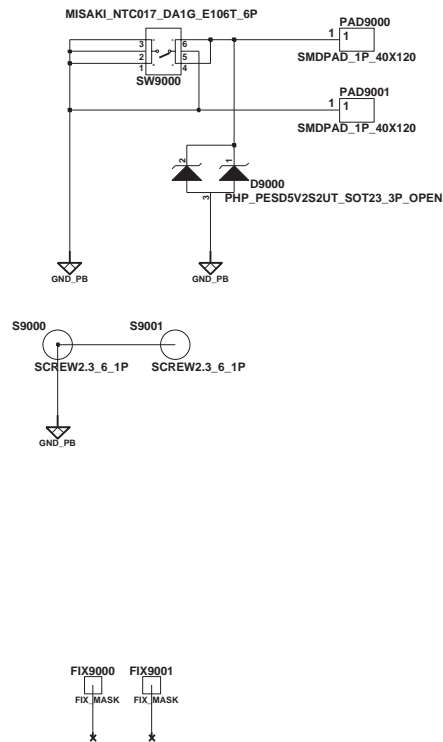


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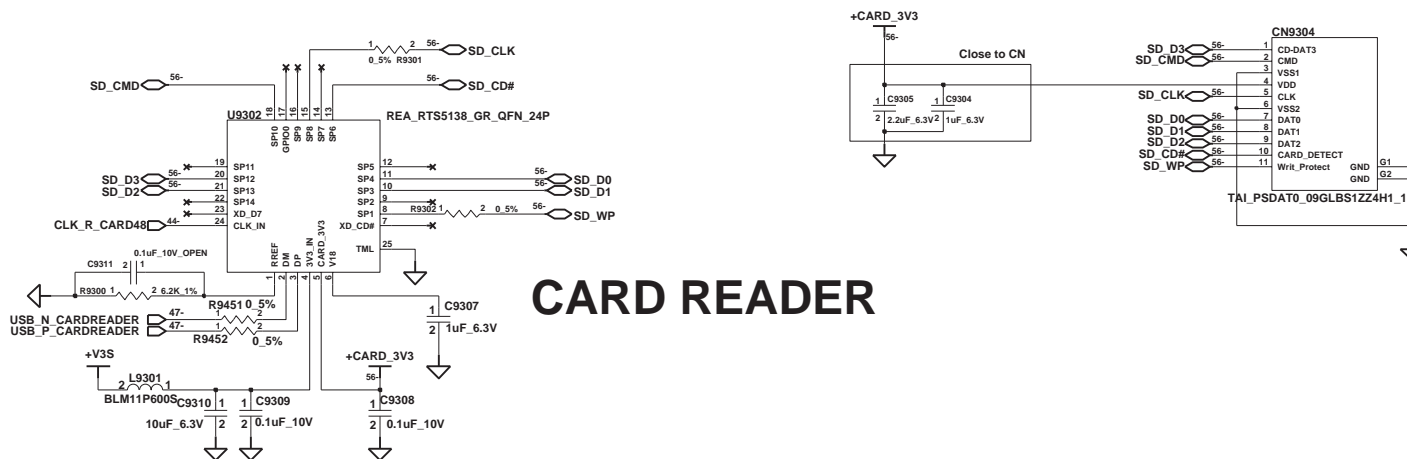
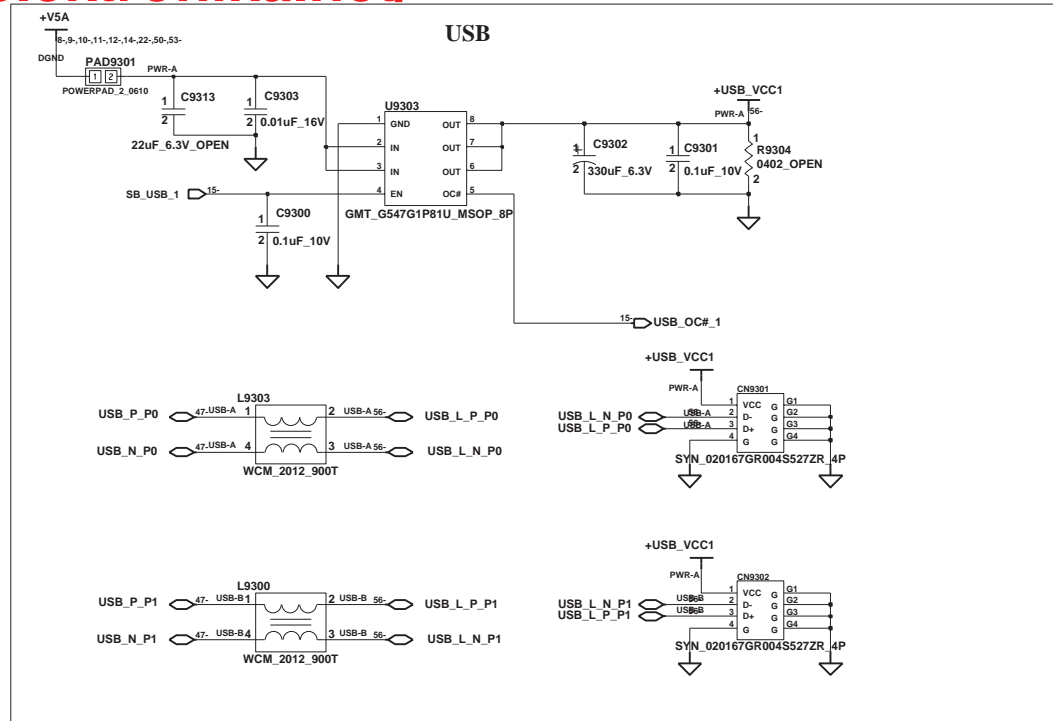
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Calcutta10 TP SWITCH BOARD			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	Model No	000
SHEET		54	OF 56

<http://hobi-elektronika.net/>

POWER BOARD



INVENTEC			
TITLE <i>Calcutta10</i> POWER BOARD			
SIZE A3	CODE CS	DOC. NUMBER <i>Model No</i>	REV 000
CHANGE by <i>Drawer Name</i>		24-Feb-2010	
SHEET		55	OF 56



INVENTEC

TITLE
Calcutta10
Card Reader/USB

SIZE CODE DOC. NUMBER REV
A3 CS Model No 000

CHANGE by *Drawer Name* 7-Jan-2010

SHEET 56 OF 56