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HSF Property: ROHS or Halogen-Free

1310A2548301 (SAMSUNG) R5061 CHANGE TO 6013A0107901 (45.3K OHM)
1310A2548302 (MICRON) R5061 CHANGE TO 6013A0017501 (30.1K OHM)

15CR-UMA-MV-0118

2013.01.18

Chief River						
UMA	DIS					
PGA 35W(dual)-HM77						
NA	N14P-GV2 23*23				N14P-GT 29*29	
NA	900MHz 256Mx16 DDR3 4pcs (2G)		900MHz 256Mx16 DDR3 8pcs (4G)		1GHz 128Mx16 GDDR5 8pcs (2G)	
	Samsung K4W4G1646B-HC11	Micron MT41K256M16HA-107G:E	Samsung K4W4G1646B-HC11	Micron MT41K256M16HA-107G:E	Hynix H5GQ2H24AFR-T2C	Samsung K4G20325FD-FC04
6050A2548201	6050A2548301				6050A2548401	
PCB-1(6L)	PCB-2 (8L)				PCB-3 (8L)	
1310A2548201	1310A2548301	1310A2548302	1310A2548303	1310A2548304	1310A2548401	1310A2548402

USB BOARD (6L) 1310A2548501 6050A2548501
POWER BOARD (6L) 1310A2548701 6050A2548701
POWER BOARD (8L) 1310A2548801 6050A2548801
USB BOARD (8L) 1310A2548601 6050A2548601

Location	Part number	Factory	Manufacturer Part No	Marking
D300	1st : 6011A0026801	DIODES	D-BAT54-7	KL1
	2nd : 60110GA0367T	NXP	BAT54	L4
Q300	1st : 6015B0110701	TOSHIBA	SSM3K7002BFU	NM
Q301	2nd : 6015B0142901	DIODES	DMN65D8LV-7	MM3
U301	1st : 6019B0932401	MXIC	MX25L512EM-10G	
512KB	2nd : 6019B0816001	ATMEL	AT25FS128-SSH-T	
U301	1st : 6019B1016101	WINBOND	W25Q32FVSSIG	
4MB	2nd : 6019B0794701	MXIC	MX25L3206EM2I-12G	
U301	1st : 6019B095901	WINBOND	W25Q64FVSSIG	
8MB	2nd : 6019B0813101	MXIC	MX25L6406EM2I-12G	

2012/5/02	DB	X01
18-DEC-2012		
DATE	CHANGE NO.	REV

DRAWER	EE	DATE	POWER	DATE	INVENTEC			
DESIGN	Abel				MODEL, PROJECT, FUNCTION			
CHECK	Alan				Main Board			
RESPONSIBLE					SIZE	CODE	DOC NUMBER	REV
FILE NAME					C	CS	1310A2548301	A02
PIN	Mates: 1 up				SHEET	of 58		

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11 P1V5S
12 PVSA
13 PVCORE1
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15 POWER TO EE PORT & EMI PART
16 P5V0S & P3V3S
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34 PCH9 GND
35 EC IT8527
36 KB CONN & LED
37 40 PIN LCM
38 HDMI
39 SATA HDD & MSATA
40 USB3.0 CONN
41 CARD READER
42 WLAN
43 G-SENSOR
44 AUDIO-1
45 AUDIO-2
46 AUDIO-3
47 FINGER PRINT
48 MB TO DB CONN & SCREW
49 AUB_BLANK
50 AUB_USB30-1

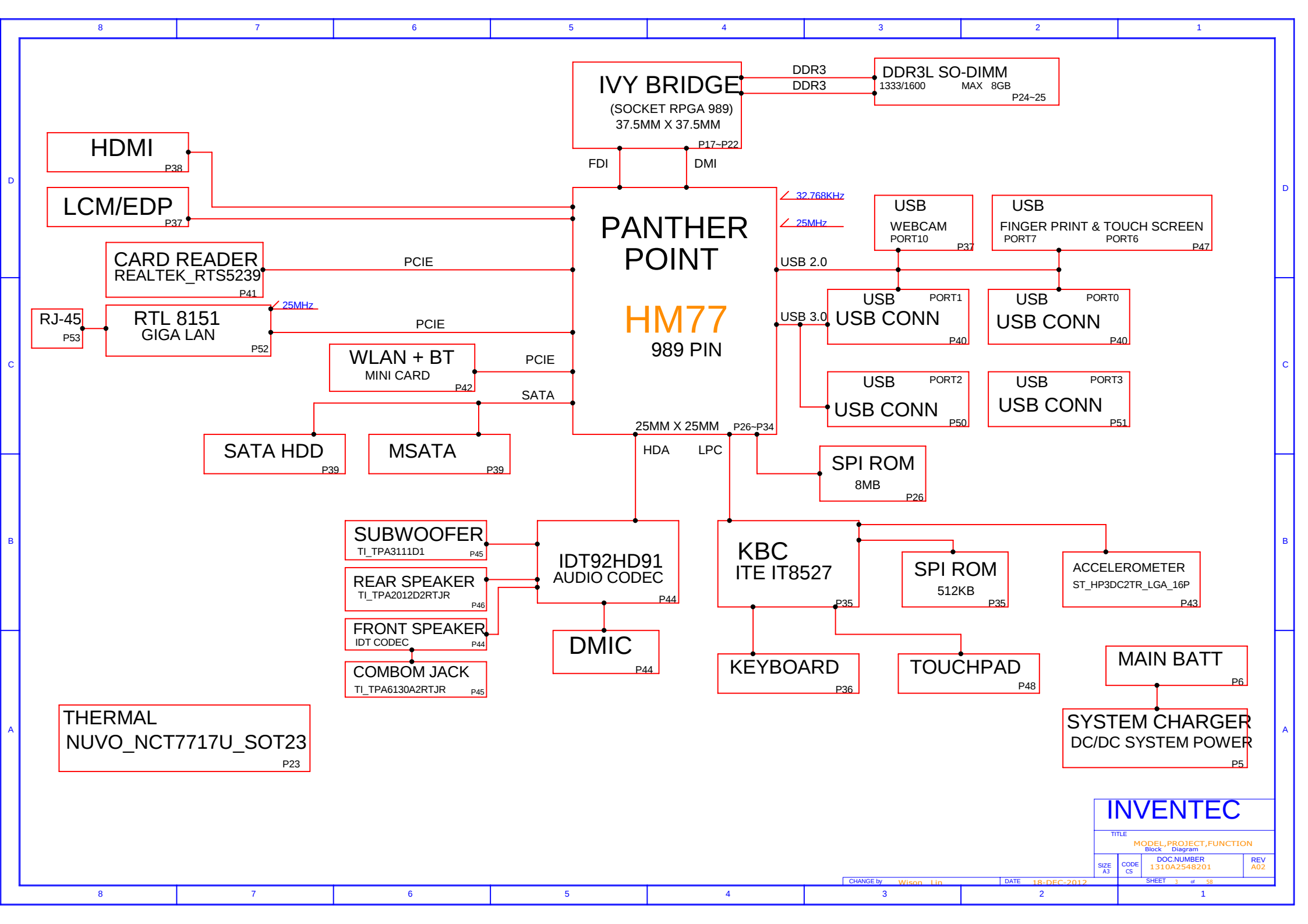
51 AUB_USB30-2
52 LAN_RLT8161GSH-CG
53 TRANSFORMER & RJ45
54 JACK
55 DAUGHTER BOARD
56 ESD BOARD
57 POWER SEQUENCE
58 POWER SEQUENCE2

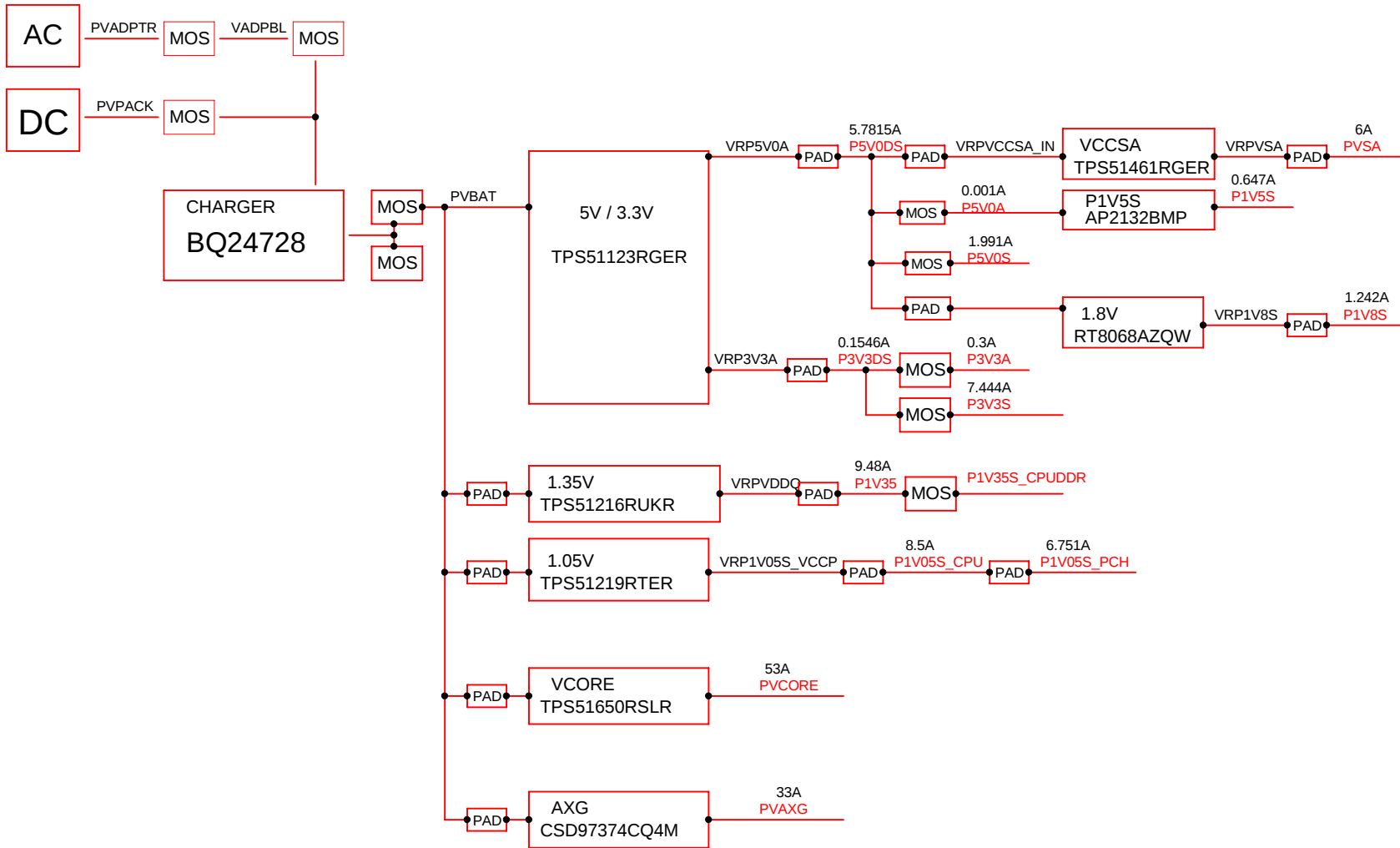
INVENTEC

TITLE
MODEL,PROJECT,FUNCTION
INDEX

SIZE A3	CODE CS	DOC NUMBER 1310A2548201	REV A02
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CHANGE by Wilson Lin	DATE 18-DEC-2012	SHEET 2 of 58
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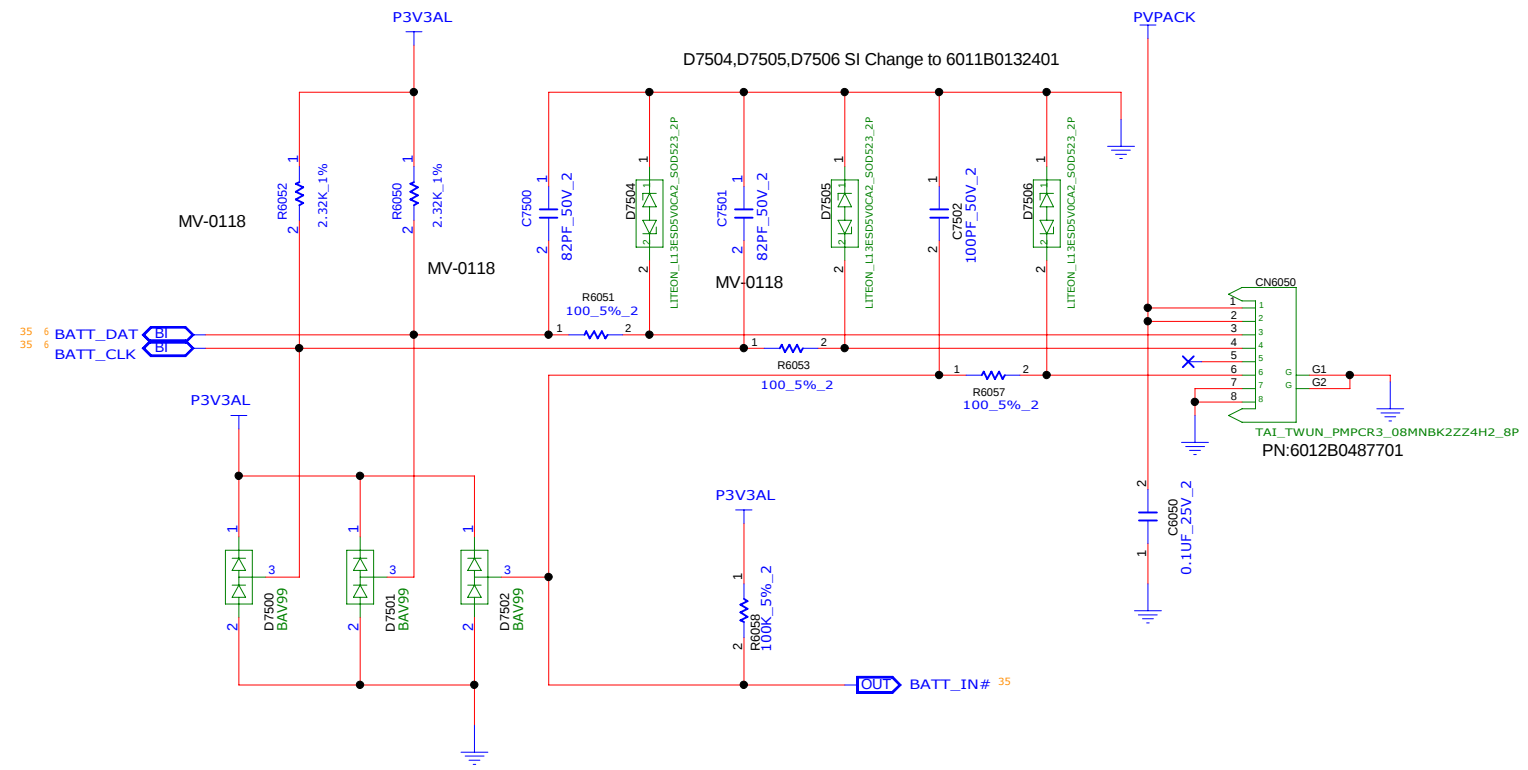
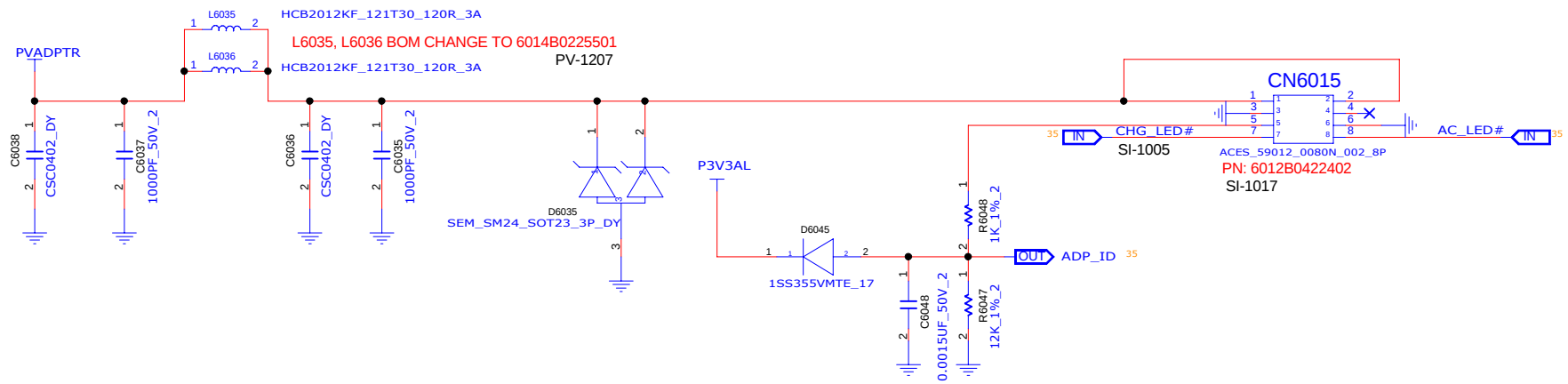
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TITLE
MODEL PROJECT FUNCTION
POWER PROCEDURE

SIZE A3 CODE CS DOC NUMBER 1310A2548201 REV A02

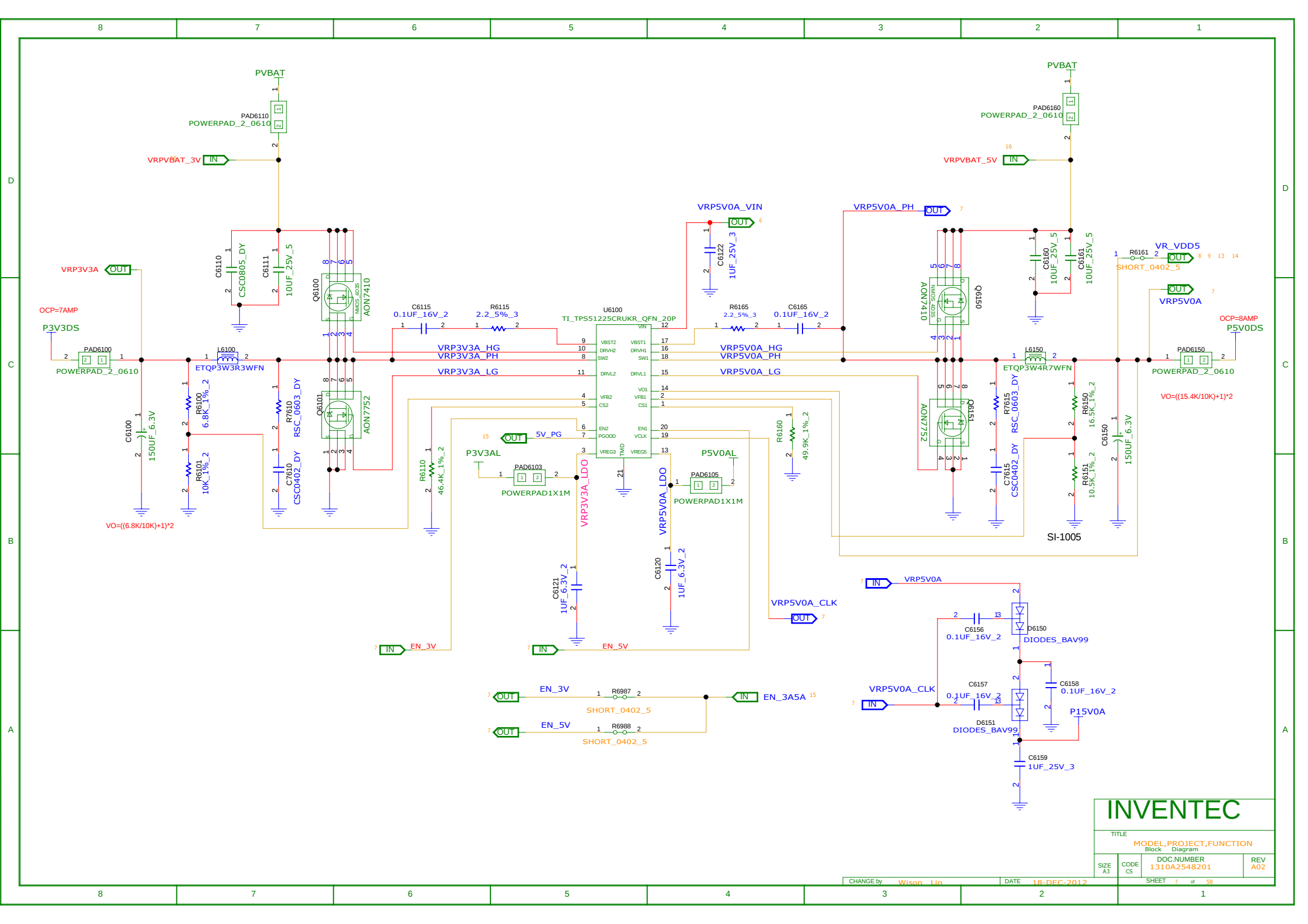
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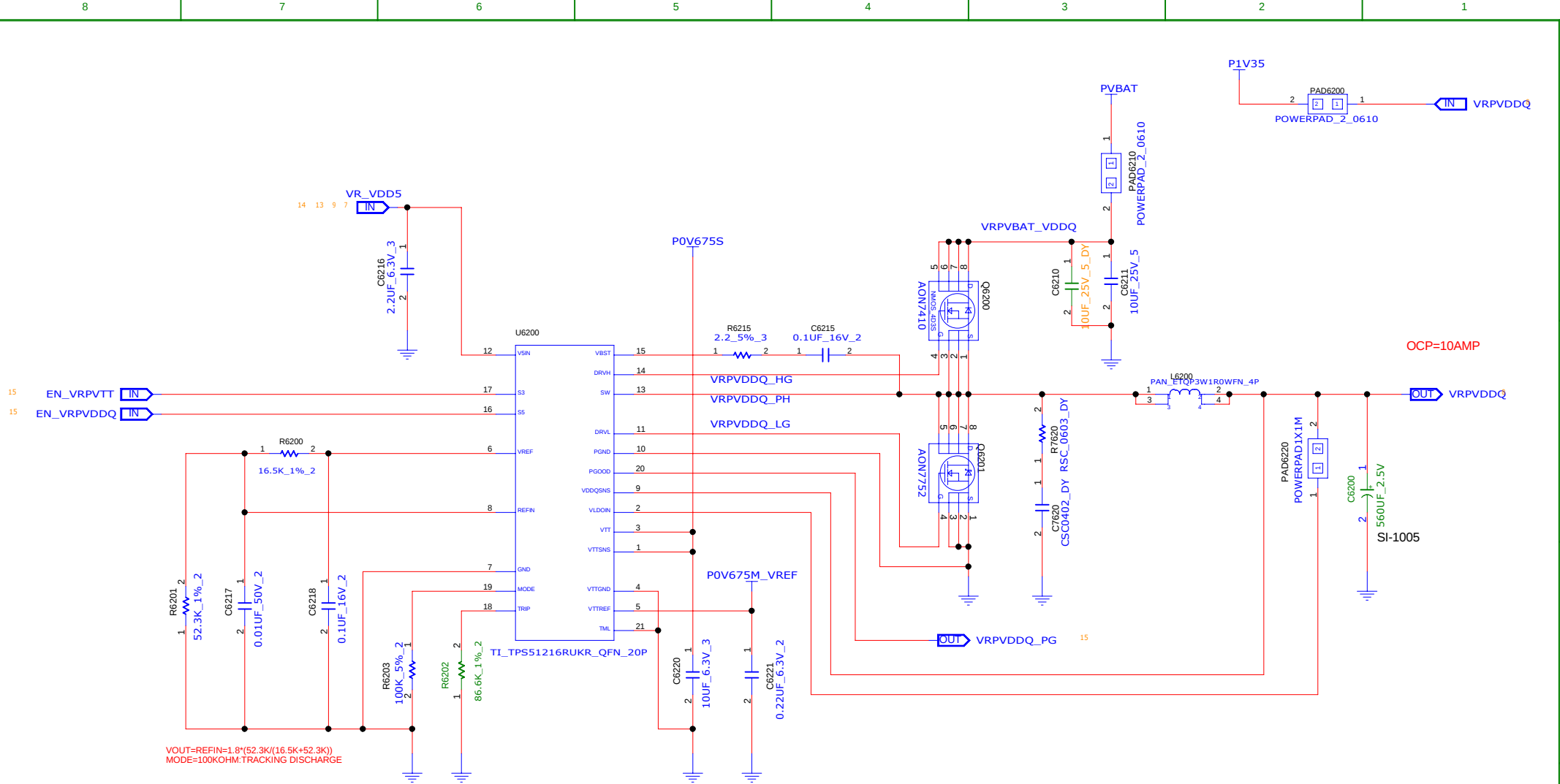
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TITLE			
MODEL,PROJECT,FUNCTION			
Block Diagram			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A2548201	A02





VOUT=REFIN*1.8*(52.3K/(16.5K+52.3K))
MODE=100KOHM:TRACKING DISCHARGE

Table 1. S3/S5 Power State Control

STATE	S3	S5	VREF	VDDQ	VTTREF	VTT
S0	HI	HI	ON	ON	ON	ON
S3	LO	HI	ON	ON	ON	OFF(High-Z)
S4/S5	LO	LO	OFF	OFF(Discharge)	OFF(Discharge)	OFF(Discharge)

INVENTEC

TITLE

MODEL,PROJECT,FUNCTION

Block Diagram

DOC NUMBER

1310A2548201

REV

A02

SIZE

A3

CODE

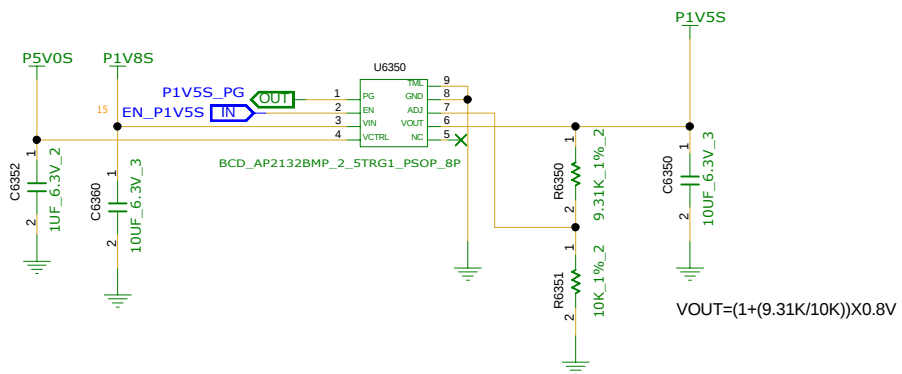
CS

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INVENTEC

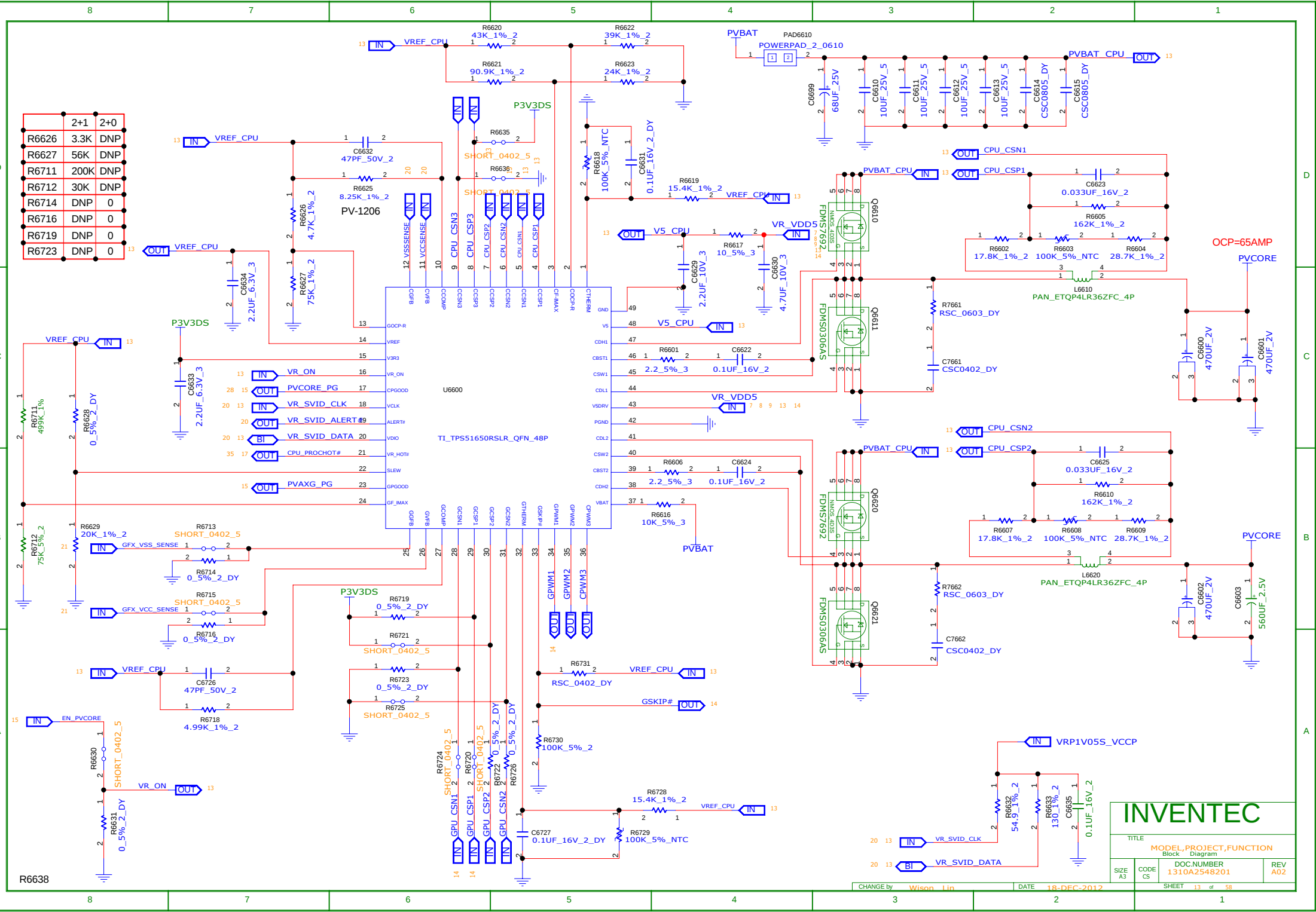
TITLE
MODEL, PROJECT, FUNCTION
Block Diagram

SIZE A3	CODE CS	DOC NUMBER 1310A2548201	REV A02
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CHANGE by: Wilson Lin DATE: 18-DEC-2012

	2+1	2+0
R6626	3.3K	DNP
R6627	56K	DNP
R6711	200K	DNP
R6712	30K	DNP
R6714	DNP	0
R6716	DNP	0
R6719	DNP	0
R6723	DNP	0

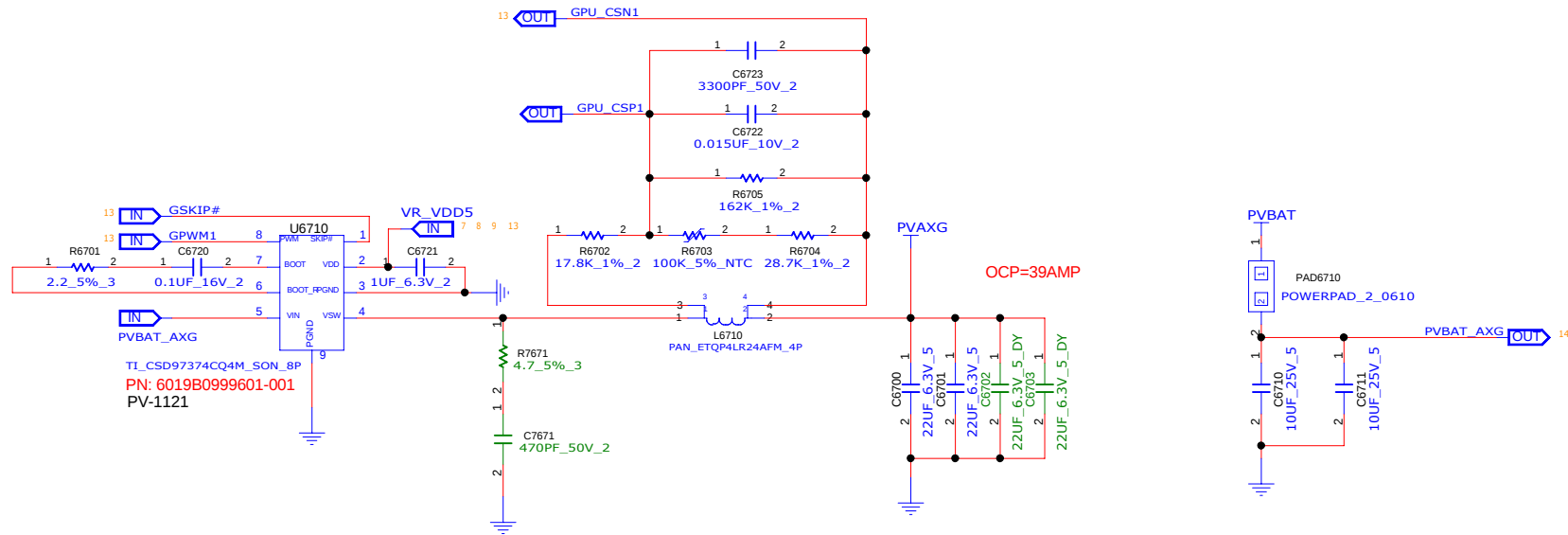


INVENTEC

TITLE			
MODEL,PROJECT,FUNCTION			
Block Diagram			
DOC NUMBER		REV	
1310A2548201		A02	

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CHANGE by: Wilson Lin DATE: 18-DEC-2012



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TITLE
 MODEL,PROJECT,FUNCTION
 Block Diagram

SIZE A3 CODE CS DOC NUMBER 1310A2548201 REV A02

CHANGE by Wison Lin DATE 18-DEC-2012

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D

C

B

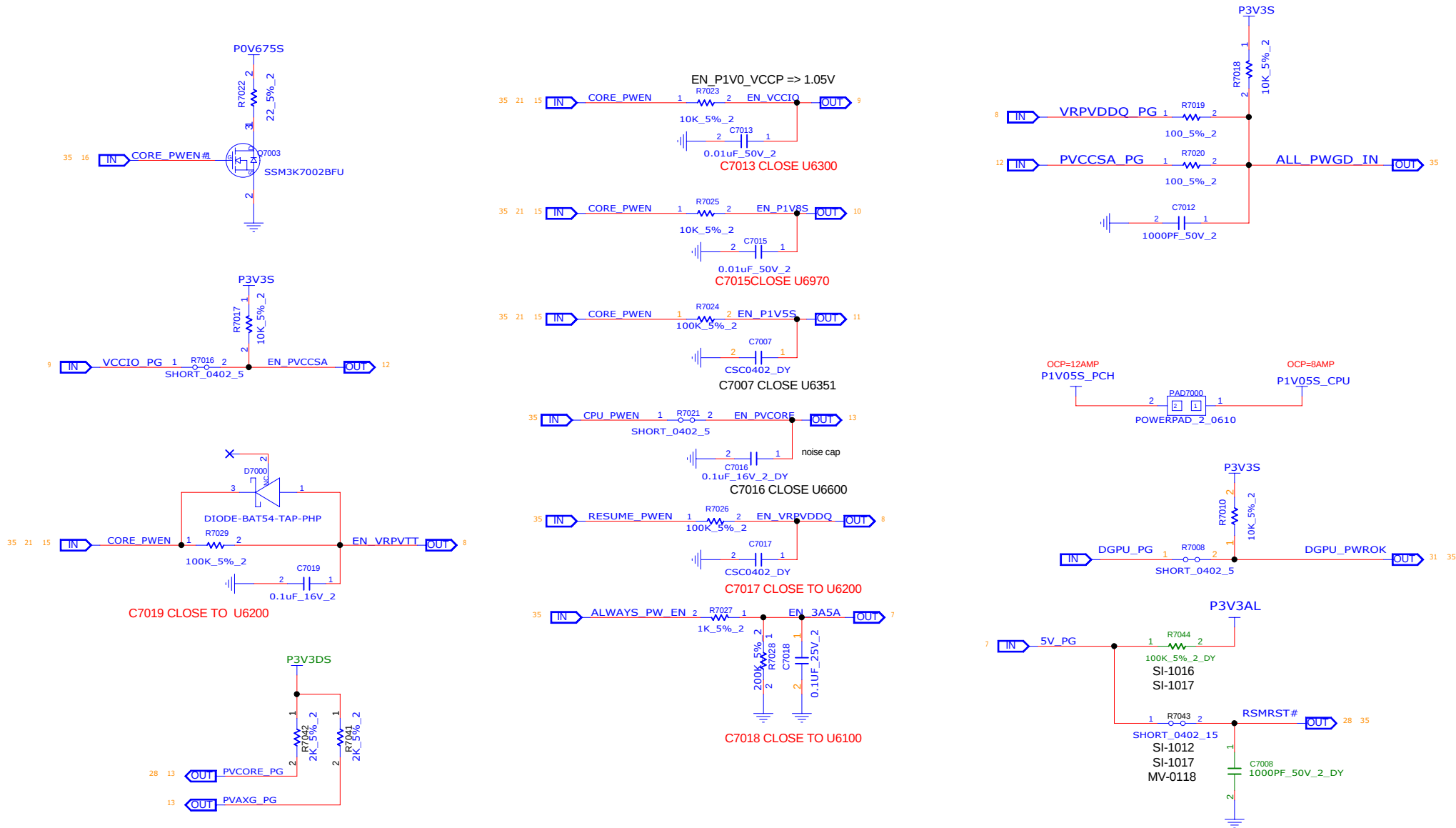
A

D

C

B

A



INVENTEC

TITLE MODEL,PROJECT,FUNCTION

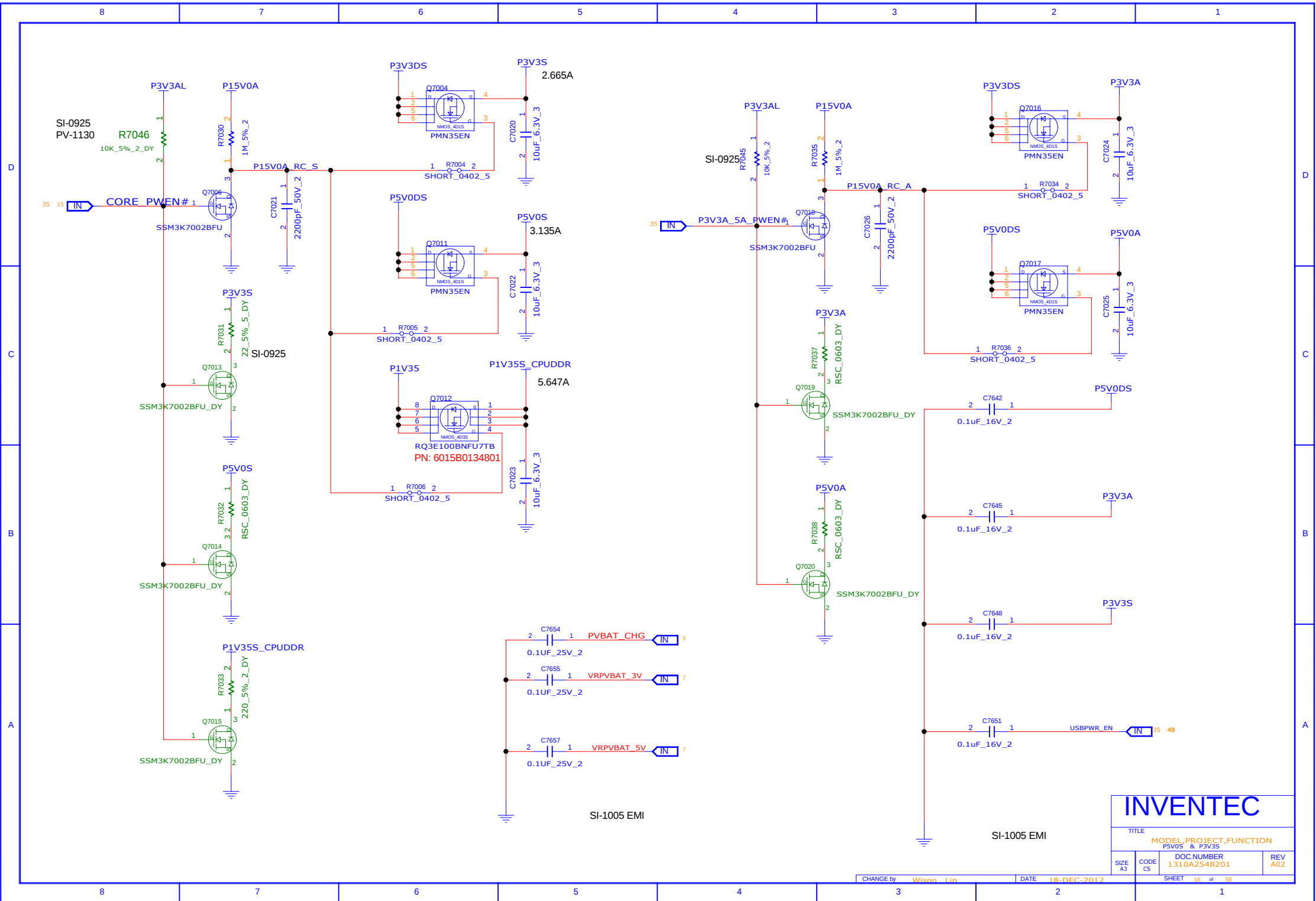
POWER TO EE PORT & EMI PART

DOC NUMBER 1310A2548201

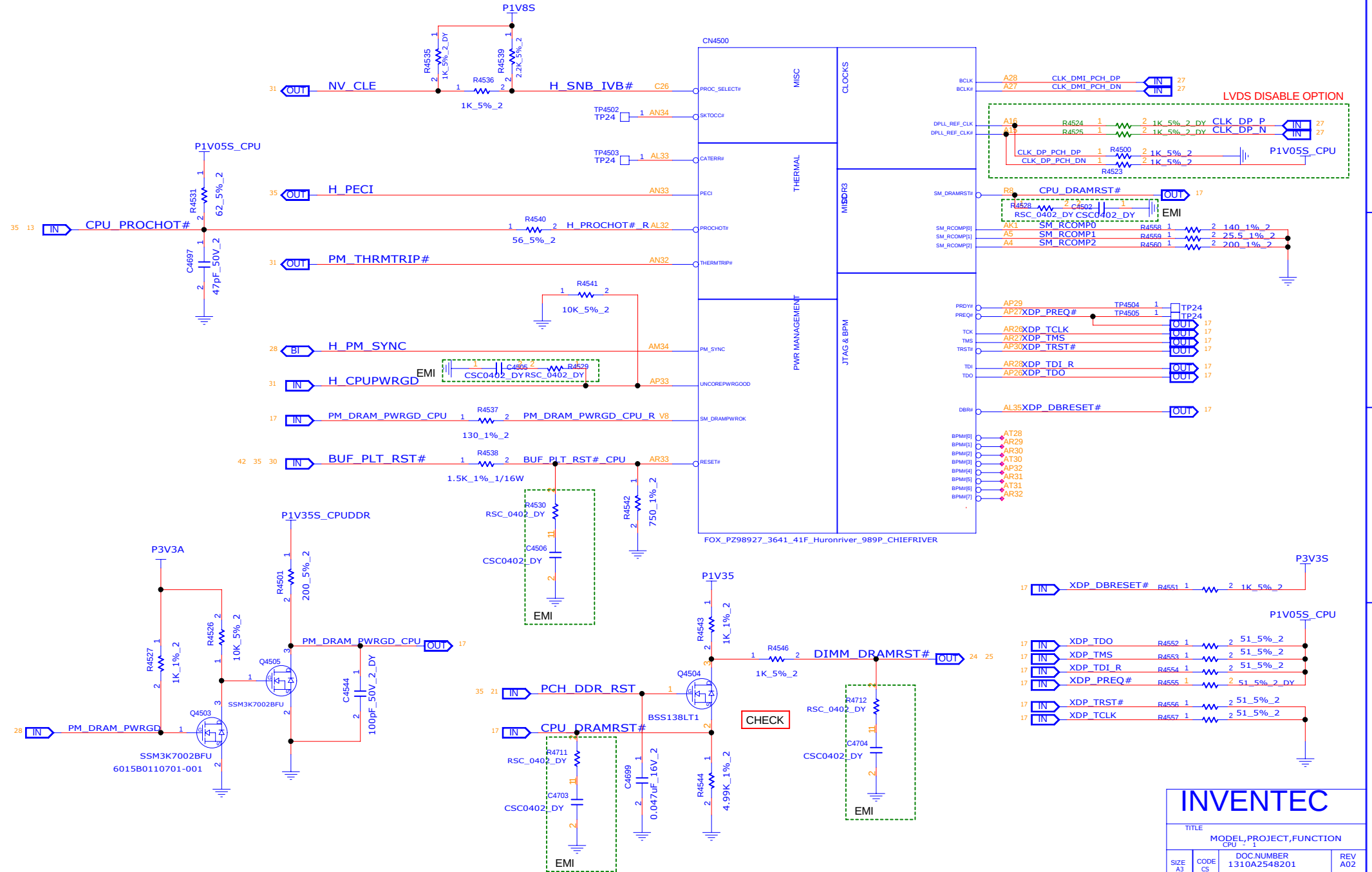
REV A02

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CHANGE by Wilson Lin DATE 18-DEC-2012



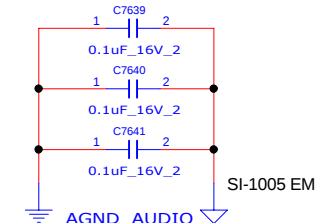
CHIEF RIVER CPU
LOCATION 4500~4699
VER.001_20120807



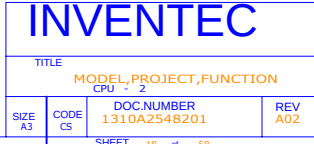
INVENTEC

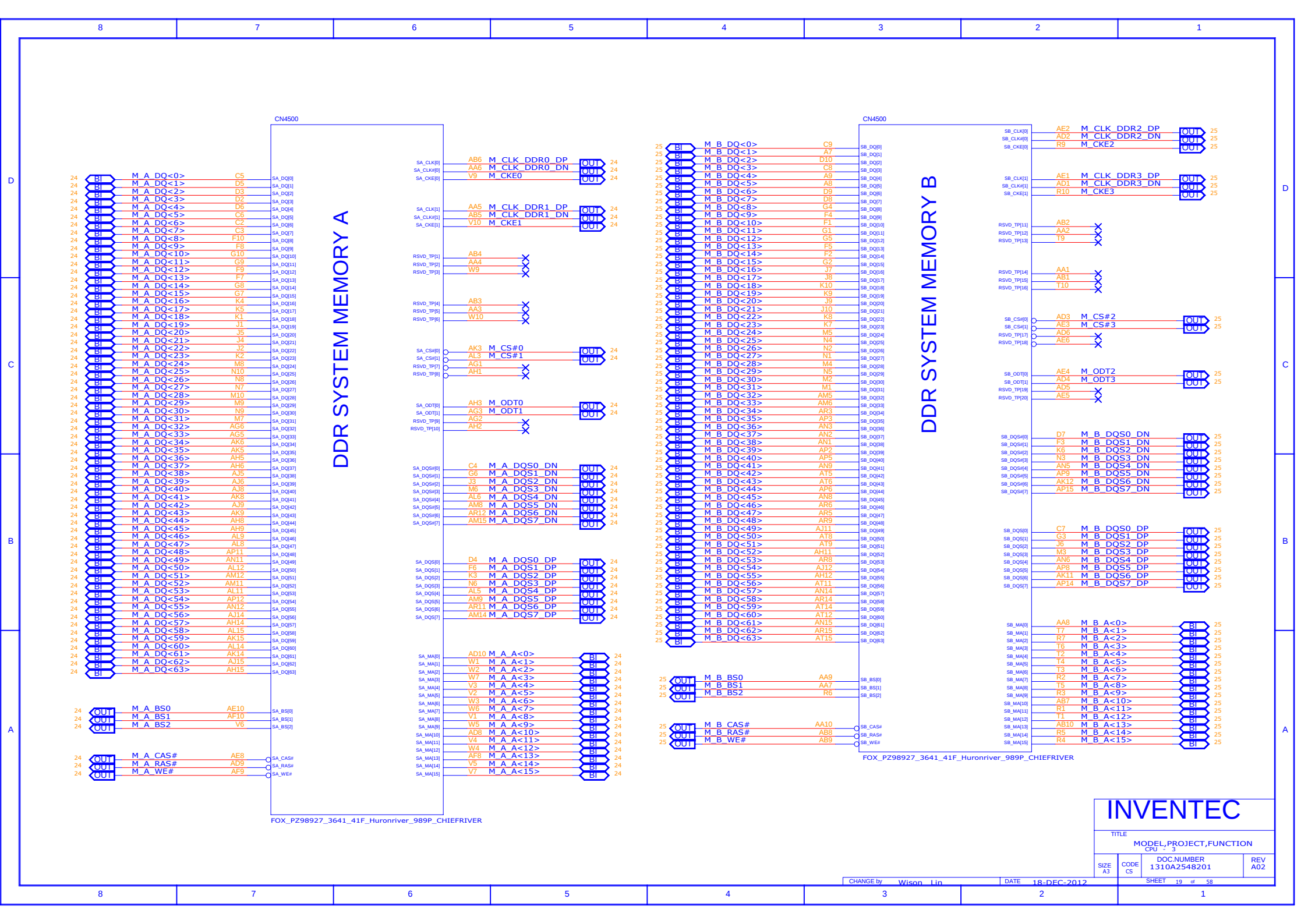
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MODEL,PROJECT,FUNCTION			
CPU 1			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A2548201	A02

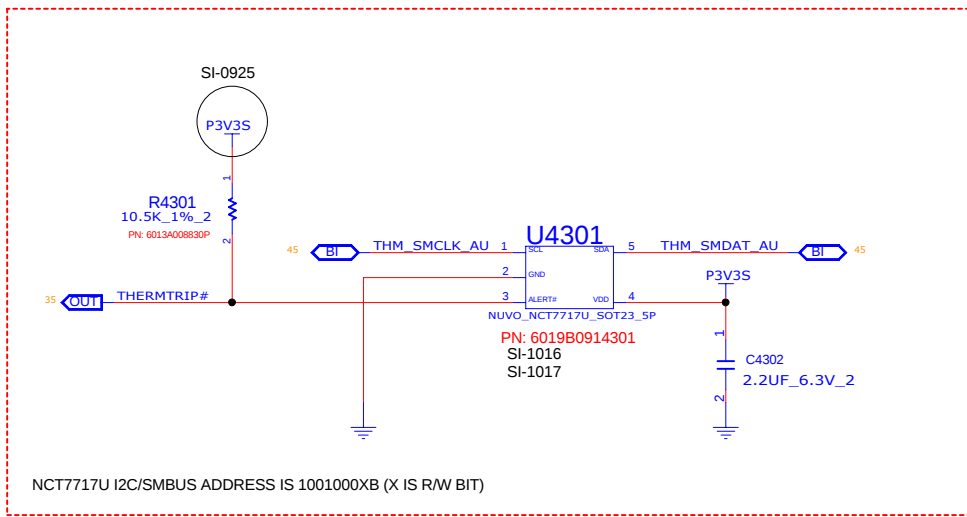
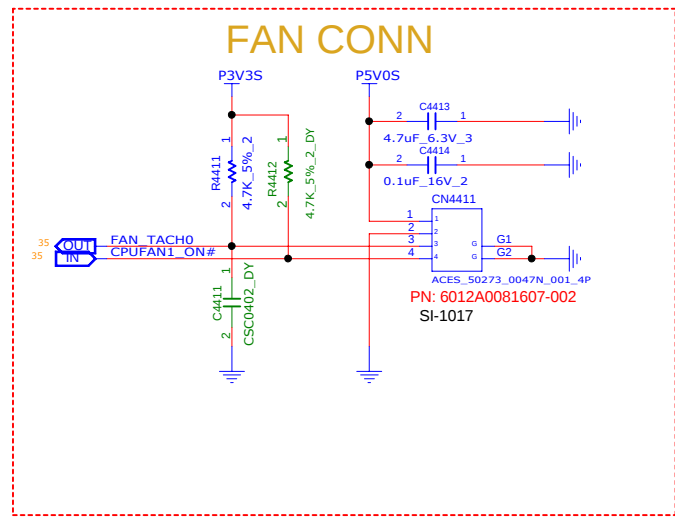
FOX_PZ98927_3641_41F_Huronriver_989P_CHIEFRIVER
CPU SOCKET, PN: 6026B0154901



PCI EXPRESS* - GRAPHICS







6.6 ALERT# point hardware power-on setting

The default value could be set after power up 100ms by different pull-up resistor of ALERT# pin:

PULL-UP RESISTOR		TEMPERATURE (°C)
ALERT	2KΩ	75
	7.5KΩ	90
	10.5KΩ	100
	14KΩ	105
	18.7KΩ	110

1. THERMAL SENSOR ON PCB TO PROTECT AGAINST POSSIBLE SYSTEM CASE DEFORMATION. SENSOR SHOULD BE ABLE TO THROTTLE SYSTEM AND ALSO CAUSE SYSTEM SHUT DOWN IF NEEDED.(FOR ALL PLATFORM)
2. SUPPORT DPTF FUNCTION. (FOR INTEL SBY)

INVENTEC

TITLEMODELPROJECTFUNCTIONTHERMAL & FAN

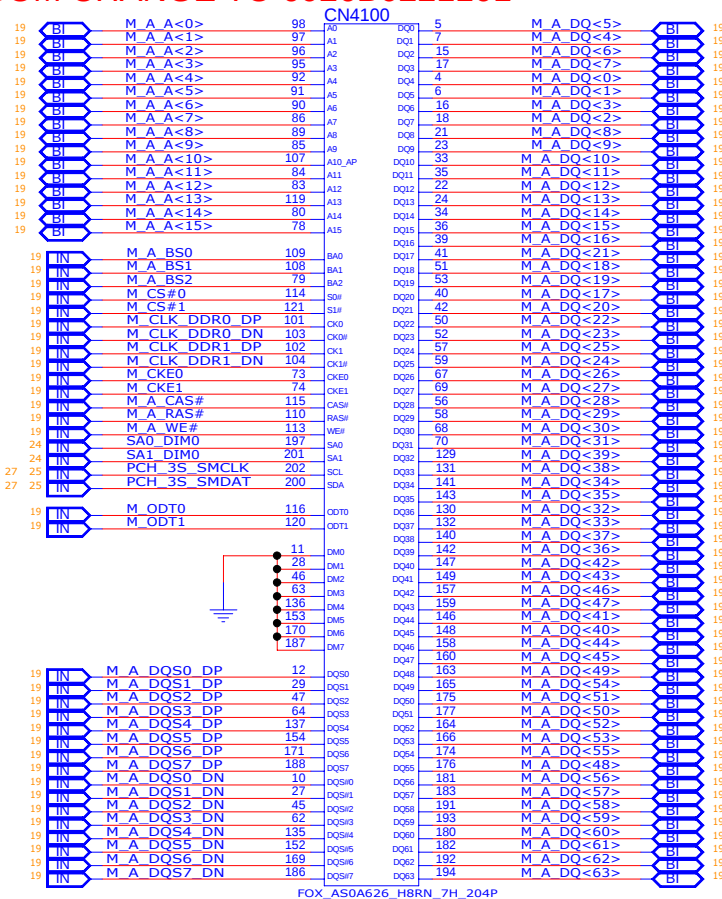
SIZEA3CODECS1310A2548201REV A02

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DDR3 (8MM) P/N : 6026B0216601

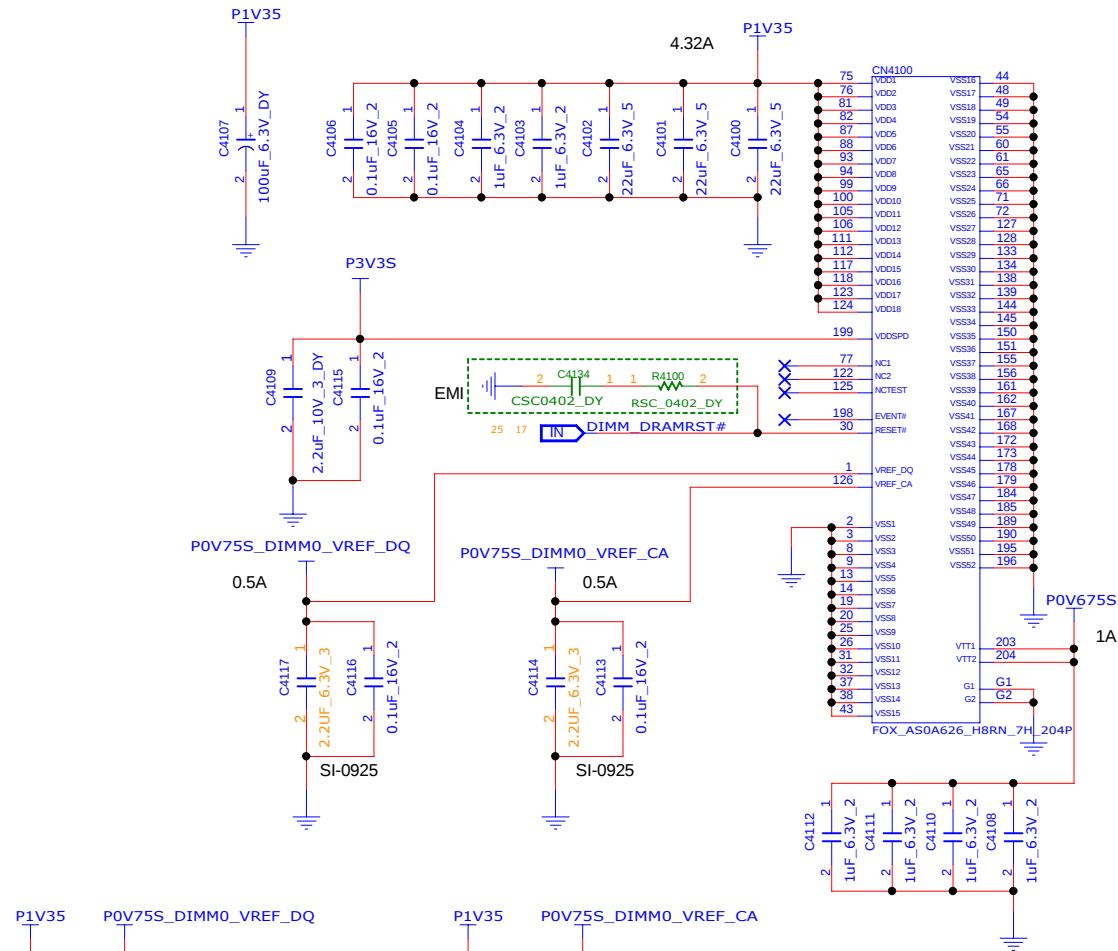
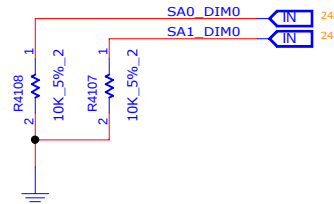
BOM CHANGE TO 6026B0221101

SI-1012



Note :

SO-DIMMA SPD Address is 0xA0
SO-DIMMA TS Address is 0x30



SANDY BRIDGE + IVY BRIDGE DG4.14

INVENTEC

TITLE			
MODEL,PROJECT,FUNCTION			
DDR3			
SIZE	CODE	DOCNUMBER	REV
A3	CS	1310A2548201	A02

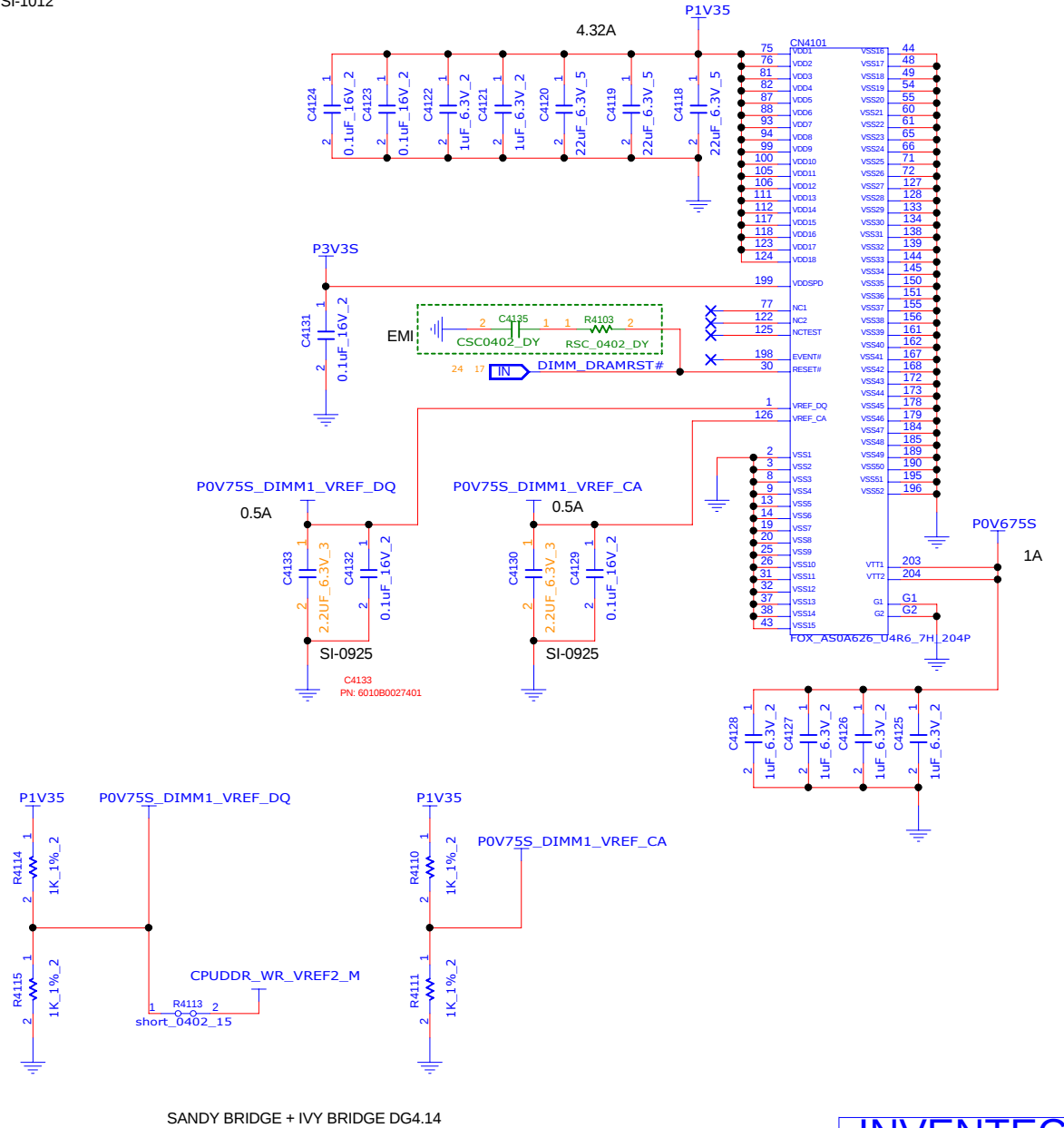
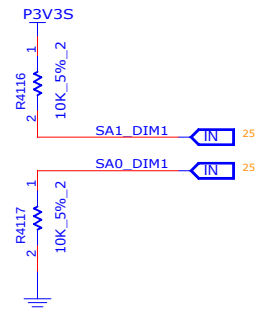
DDR3 (4MM) P/N : 6026B0216701 BOM CHANGE TO 6026B0221601

SI-1012

19	BI	M B A<0>	98	CN4101	DQ07	5	M B DQ<0>	BI	19
19	BI	M B A<1>	97	A0	DQ07	7	M B DQ<1>	BI	19
19	BI	M B A<2>	96	A2	DQ02	15	M B DQ<7>	BI	19
19	BI	M B A<3>	95	A3	DQ03	17	M B DQ<3>	BI	19
19	BI	M B A<4>	92	A4	DQ04	4	M B DQ<4>	BI	19
19	BI	M B A<5>	91	A5	DQ05	16	M B DQ<5>	BI	19
19	BI	M B A<6>	90	A6	DQ06	18	M B DQ<6>	BI	19
19	BI	M B A<7>	86	A7	DQ07	21	M B DQ<8>	BI	19
19	BI	M B A<8>	89	A8	DQ09	23	M B DQ<9>	BI	19
19	BI	M B A<9>	85	AB	DQ10	33	M B DQ<10>	BI	19
19	BI	M B A<10>	107	A10 AP	DQ11	35	M B DQ<11>	BI	19
19	BI	M B A<11>	84	A11	DQ12	22	M B DQ<12>	BI	19
19	BI	M B A<12>	83	A12	DQ13	24	M B DQ<13>	BI	19
19	BI	M B A<13>	119	A13	DQ14	34	M B DQ<14>	BI	19
19	BI	M B A<14>	80	A14	DQ15	36	M B DQ<15>	BI	19
19	BI	M B A<15>	78	A15	DQ16	39	M B DQ<16>	BI	19
19	IN	M B BS0	109	BA0	DQ17	41	M B DQ<17>	BI	19
19	IN	M B BS1	108	BA1	DQ18	51	M B DQ<18>	BI	19
19	IN	M B BS2	79	BA2	DQ19	53	M B DQ<19>	BI	19
19	IN	M CS#2	114	S0#	DQ20	40	M B DQ<20>	BI	19
19	IN	M CS#3	121	S1#	DQ21	42	M B DQ<21>	BI	19
19	IN	M CLK DDR2 DP	101	CK0	DQ22	50	M B DQ<22>	BI	19
19	IN	M CLK DDR2 DN	103	CK0#	DQ23	52	M B DQ<23>	BI	19
19	IN	M CLK DDR3 DP	102	CK1	DQ24	57	M B DQ<24>	BI	19
19	IN	M CLK DDR3 DN	104	CK1#	DQ25	59	M B DQ<25>	BI	19
19	IN	M CKE2	73	CKE1	DQ26	67	M B DQ<26>	BI	19
19	IN	M CKE3	74	CKE2	DQ27	69	M B DQ<27>	BI	19
19	IN	M B CAS#	115	CAS#	DQ28	56	M B DQ<28>	BI	19
19	IN	M B RAS#	110	RAS#	DQ29	58	M B DQ<29>	BI	19
19	IN	M B WE#	113	WE#	DQ30	68	M B DQ<31>	BI	19
25	IN	SA0_DIM1	197	SA0	DQ31	70	M B DQ<30>	BI	19
25	IN	PCH_3S_SMCLK	201	SA1	DQ32	129	M B DQ<36>	BI	19
27	IN	PCH_3S_SMDAT	202	SCL	DQ33	131	M B DQ<37>	BI	19
27	IN		200	SDA	DQ34	141	M B DQ<34>	BI	19
19	IN	M ODT2	116	ODT0	DQ35	143	M B DQ<35>	BI	19
19	IN	M ODT3	120	ODT1	DQ36	130	M B DQ<32>	BI	19
19					DQ37	132	M B DQ<33>	BI	19
19					DQ38	140	M B DQ<39>	BI	19
19					DQ39	142	M B DQ<38>	BI	19
19					DQ40	147	M B DQ<41>	BI	19
19					DQ41	149	M B DQ<45>	BI	19
19					DQ42	157	M B DQ<46>	BI	19
19					DQ43	159	M B DQ<42>	BI	19
19					DQ44	146	M B DQ<44>	BI	19
19					DQ45	148	M B DQ<40>	BI	19
19					DQ46	158	M B DQ<43>	BI	19
19					DQ47	160	M B DQ<47>	BI	19
19	IN	M B DQS0 DP	12	DQS0	DQ48	163	M B DQ<48>	BI	19
19	IN	M B DQS1 DP	29	DQS1	DQ49	165	M B DQ<53>	BI	19
19	IN	M B DQS2 DP	47	DQS2	DQ50	175	M B DQ<54>	BI	19
19	IN	M B DQS3 DP	64	DQS3	DQ51	177	M B DQ<55>	BI	19
19	IN	M B DQS4 DP	137	DQS4	DQ52	164	M B DQ<49>	BI	19
19	IN	M B DQS5 DP	184	DQS5	DQ53	166	M B DQ<52>	BI	19
19	IN	M B DQS6 DP	171	DQS6	DQ54	174	M B DQ<51>	BI	19
19	IN	M B DQS7 DP	188	DQS7	DQ55	176	M B DQ<50>	BI	19
19	IN	M B DQS0 DN	10	DQS0#	DQ56	181	M B DQ<58>	BI	19
19	IN	M B DQS1 DN	27	DQS1#	DQ57	183	M B DQ<61>	BI	19
19	IN	M B DQS2 DN	45	DQS2#	DQ58	191	M B DQ<62>	BI	19
19	IN	M B DQS3 DN	62	DQS3#	DQ59	193	M B DQ<63>	BI	19
19	IN	M B DQS4 DN	135	DQS4#	DQ60	180	M B DQ<57>	BI	19
19	IN	M B DQS5 DN	152	DQS5#	DQ61	182	M B DQ<56>	BI	19
19	IN	M B DQS6 DN	169	DQS6#	DQ62	192	M B DQ<59>	BI	19
19	IN	M B DQS7 DN	186	DQS7#	DQ63	194	M B DQ<60>	BI	19

FOX_AS0A626_U4R6_7H_204P

Note :
SO-DIMMA SPD Address is 0xA4
SO-DIMMA TS Address is 0x34

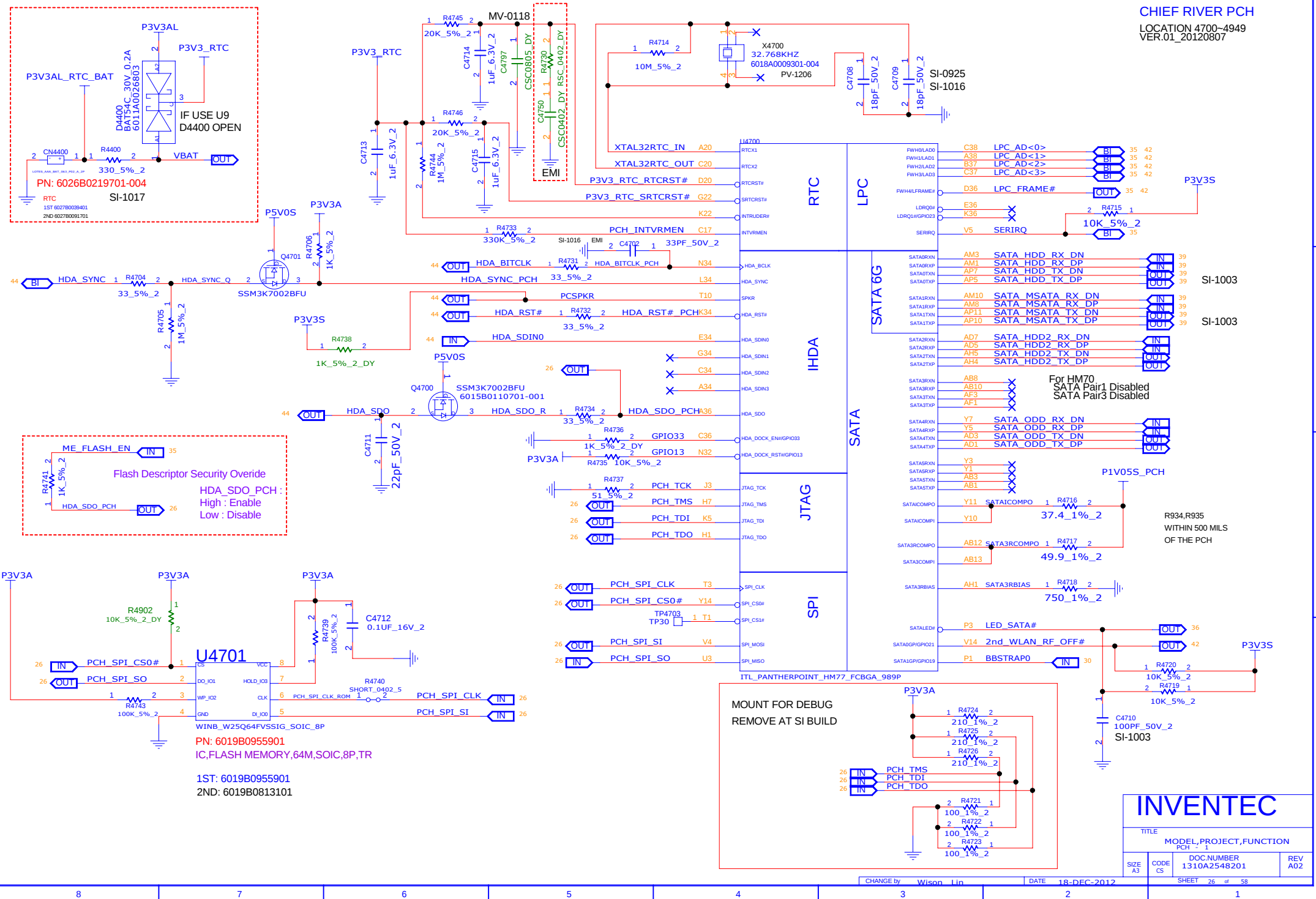


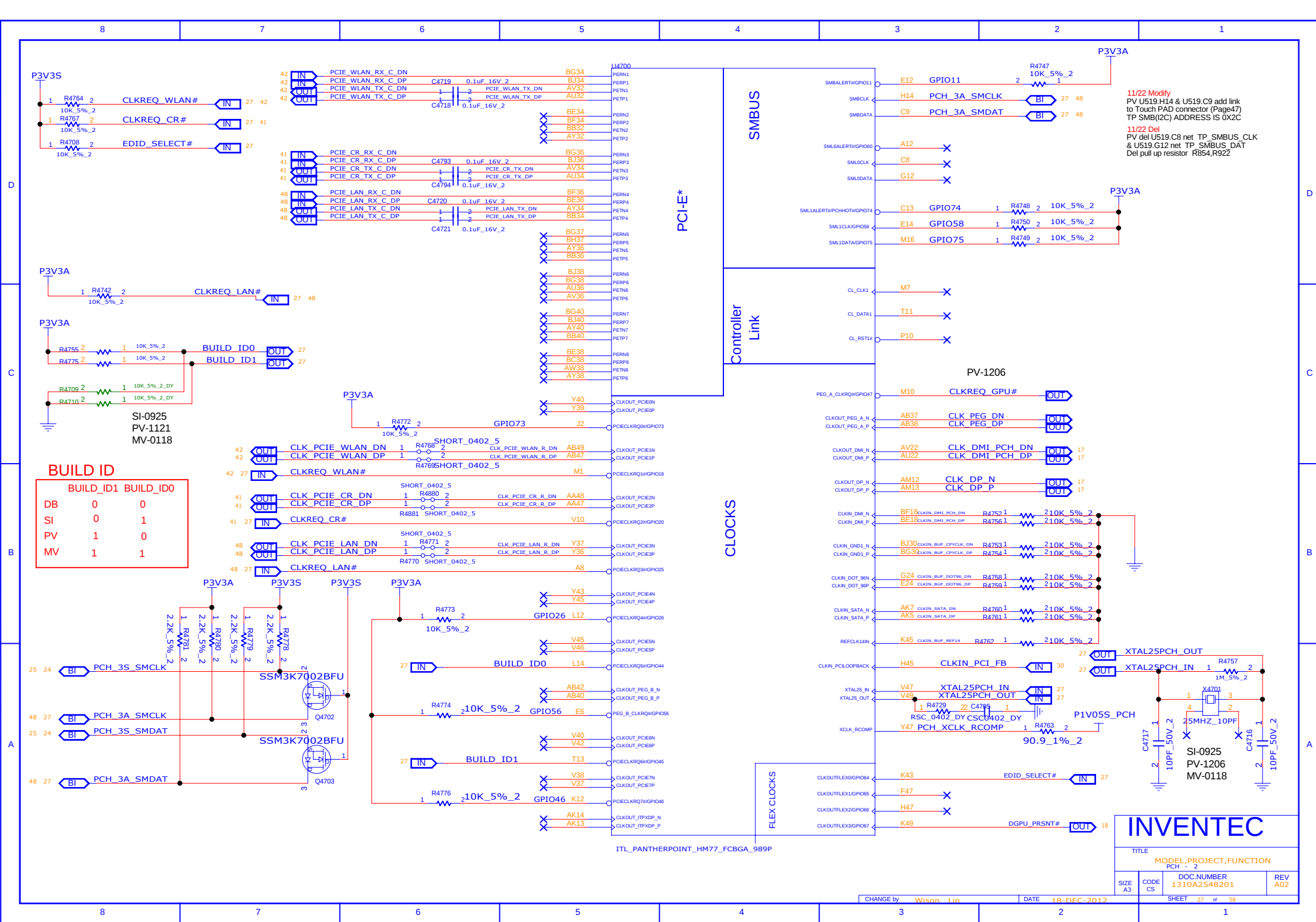
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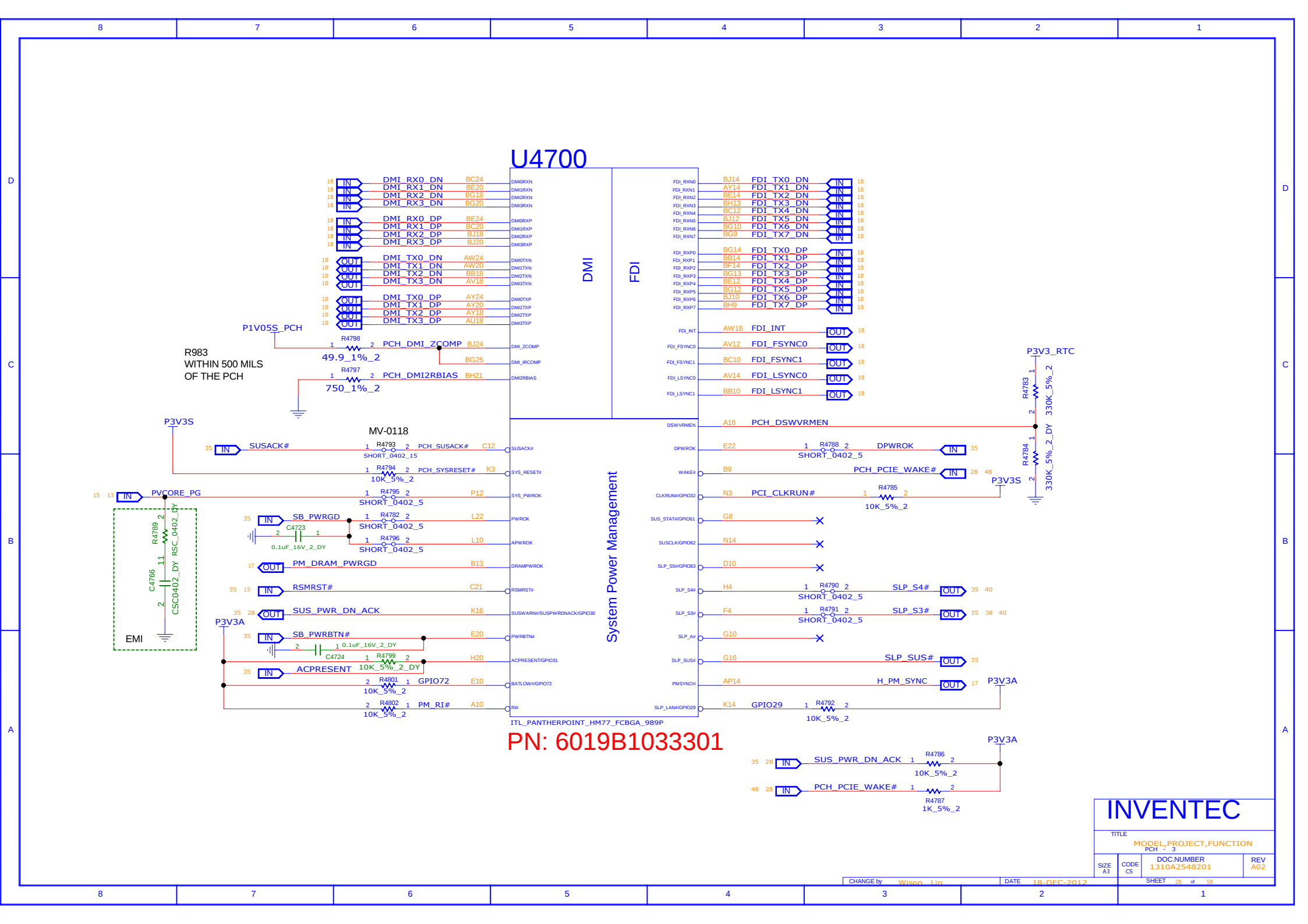
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TITLE			
MODEL, PROJECT, FUNCTION			
DDR3			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A2548201	A02

CHIEF RIVER PCH

LOCATION 4700-4949
VER.01_20120807





U4700

PN: 6019B1033301

ITL_PANTHERPOINT_HM77_FCBGA_989P

System Power Management

DMI

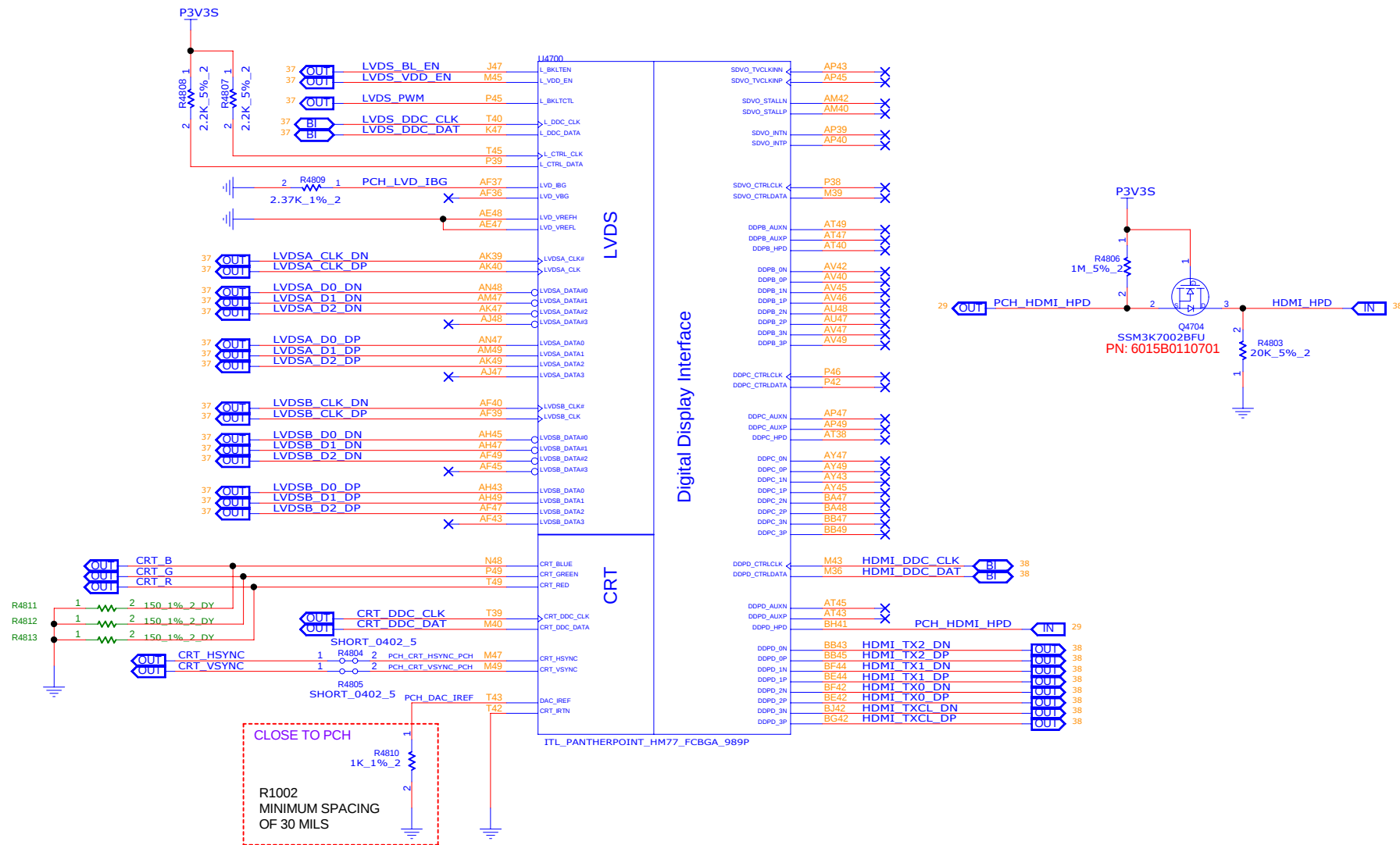
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INVENTEC

TITLE
MODEL,PROJECT,FUNCTION
PCH - 3

SIZE CODE DOC NUMBER REV
A3 CS 1310A2548201 A02

CHANGE by Wison Lin DATE 18-DEC-2012 SHEET 28 of 58



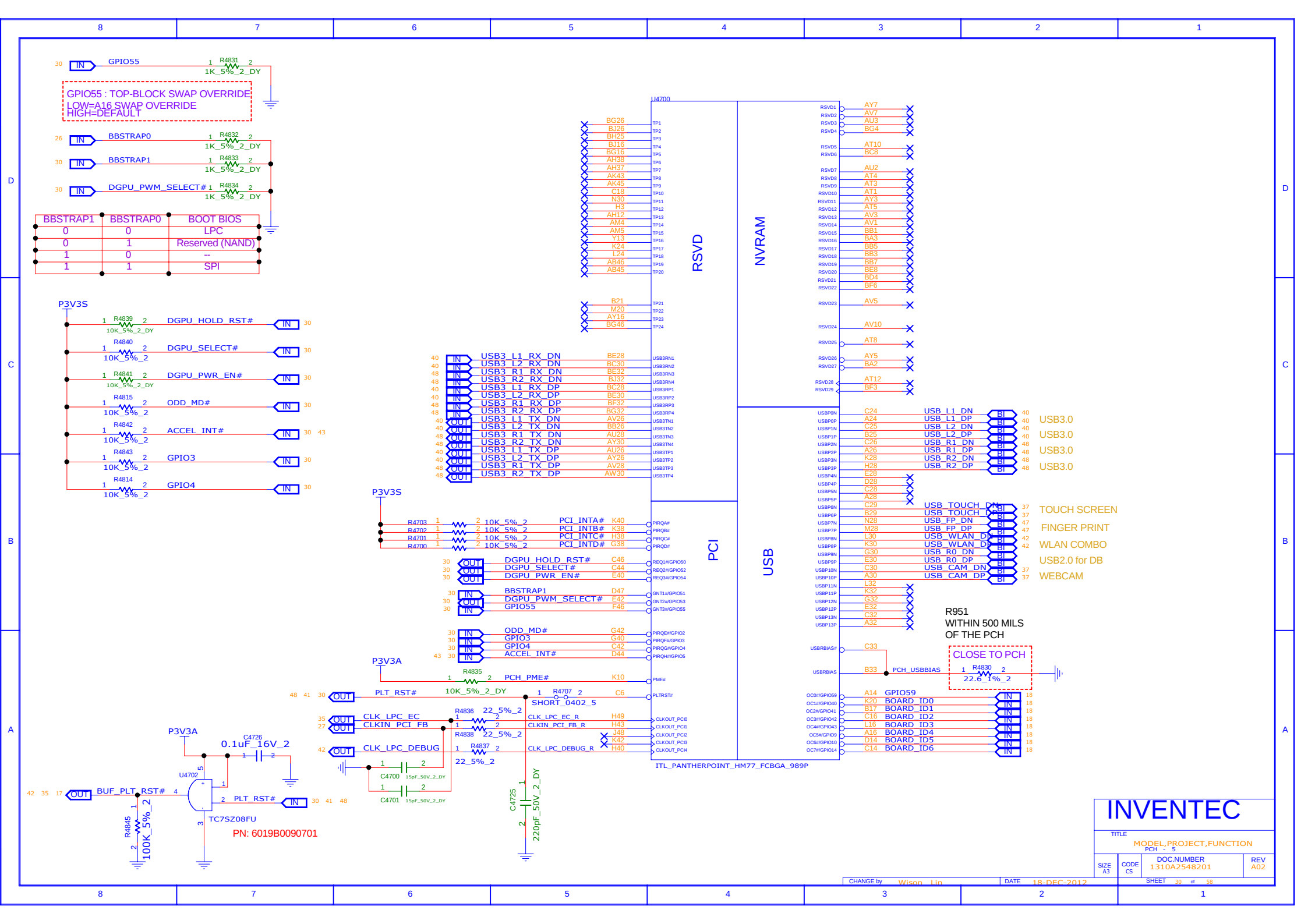
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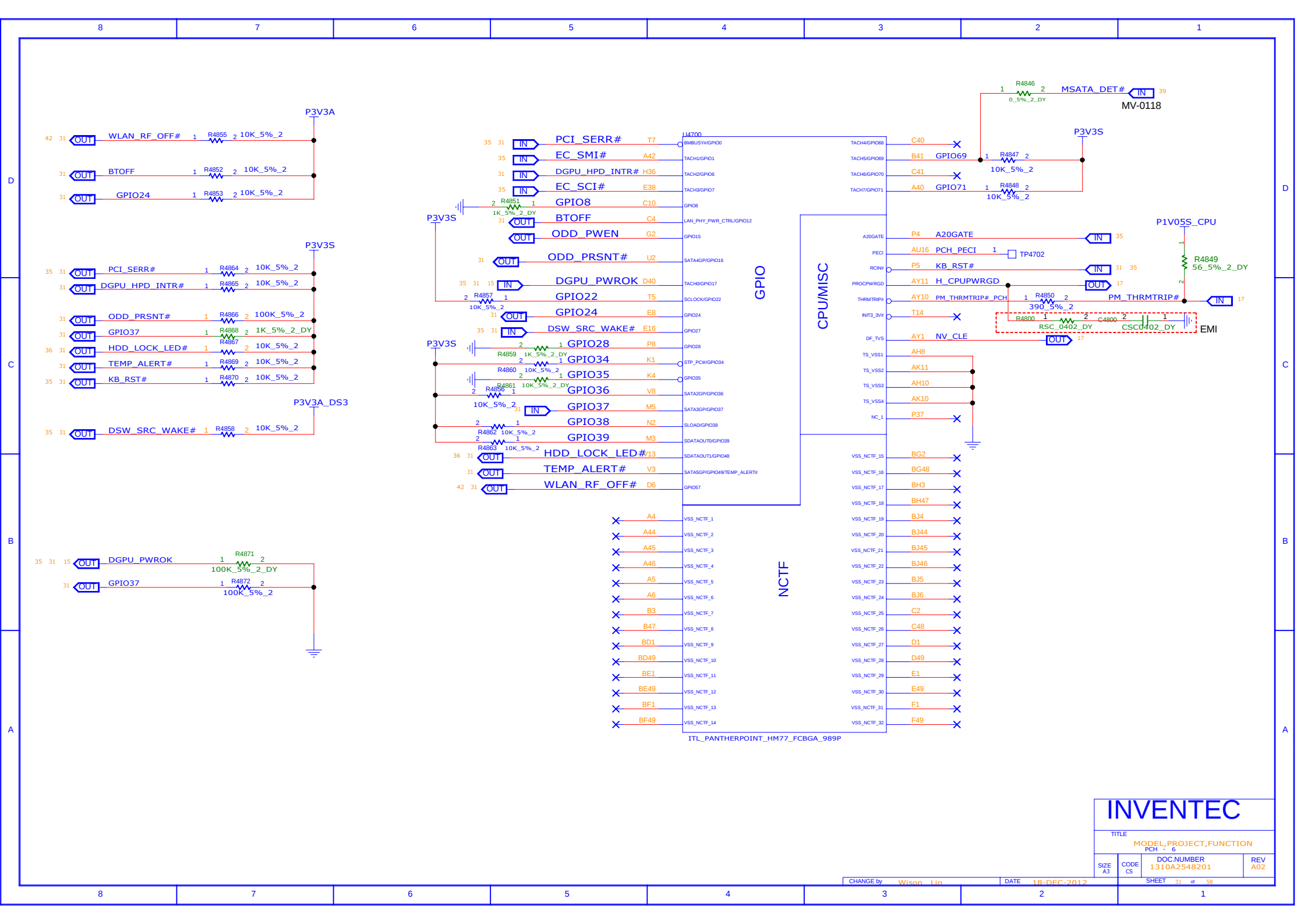
TITLE
MODEL,PROJECT,FUNCTION
PCH : 4

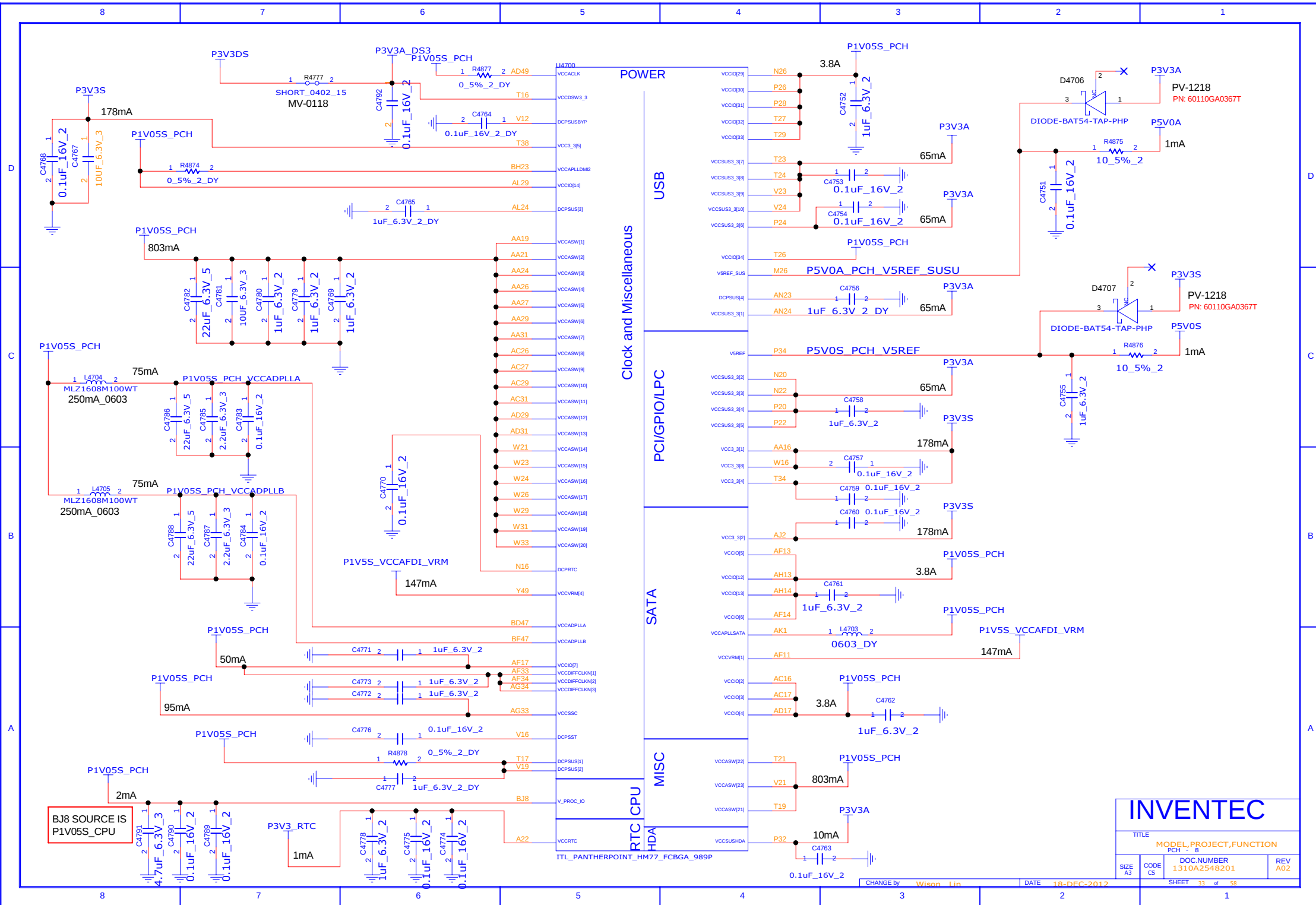
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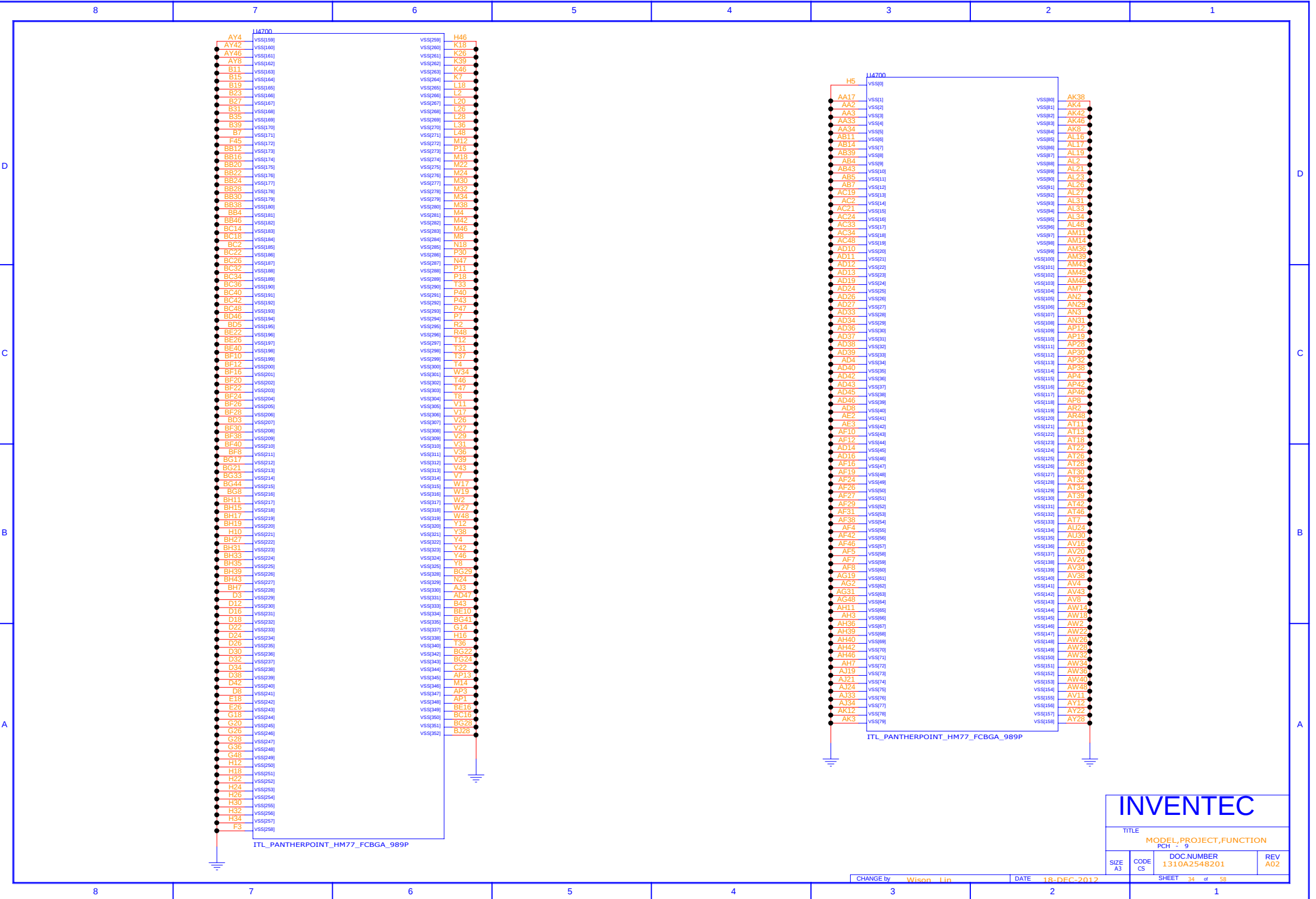
CHANGE by Wilson Lin DATE 18-DEC-2012

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INVENTEC

TITLE
MODEL,PROJECT,FUNCTION
PCH 9

SIZE A3	CODE CS	DOC NUMBER 1310A2548201	REV A02
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EC 2013EE1B
Location 300 ~ 389
VER.05_20120824

D300
PN: 60110GA0367T

DIODE-BAT54-TAP-PHP
R321 100K_5%_2

Platform Intel AMD
R319, R318 10K0 NA
R318 1 10K_5%_2
R317 1 10K_5%_2

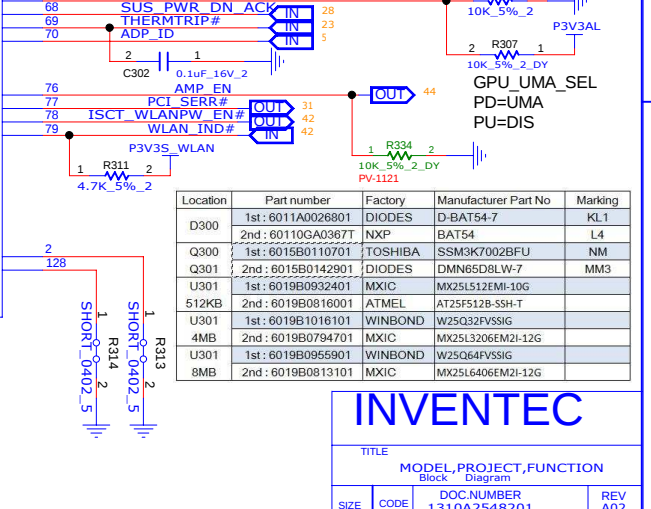
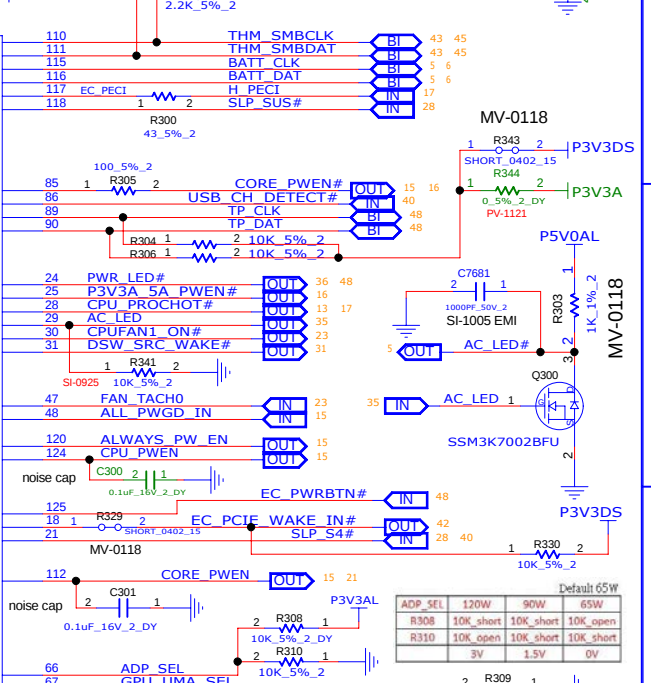
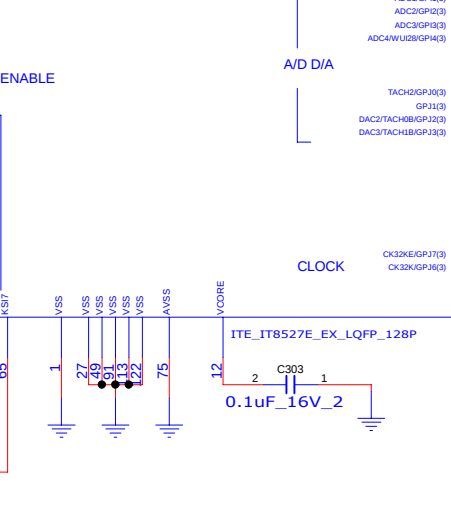
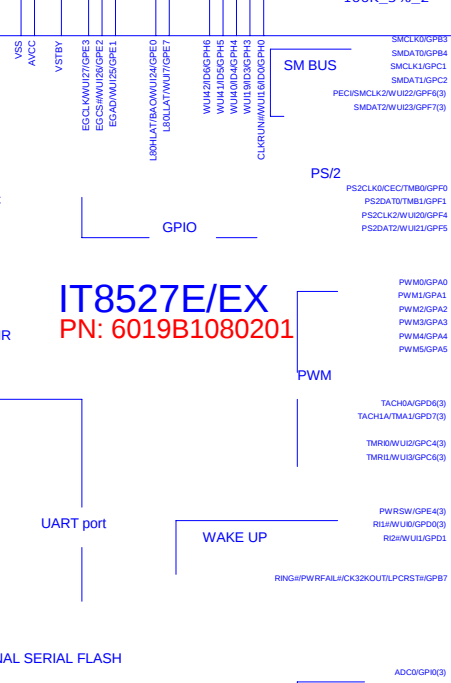
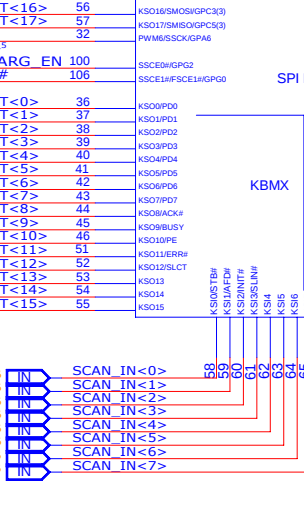
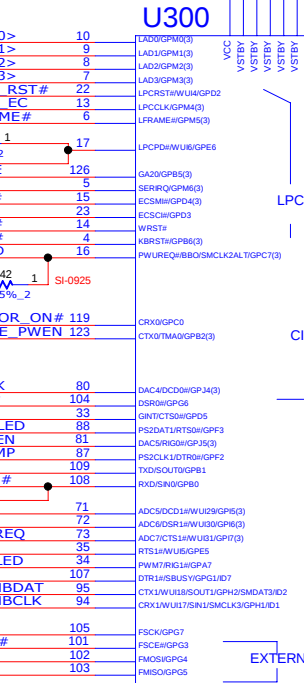
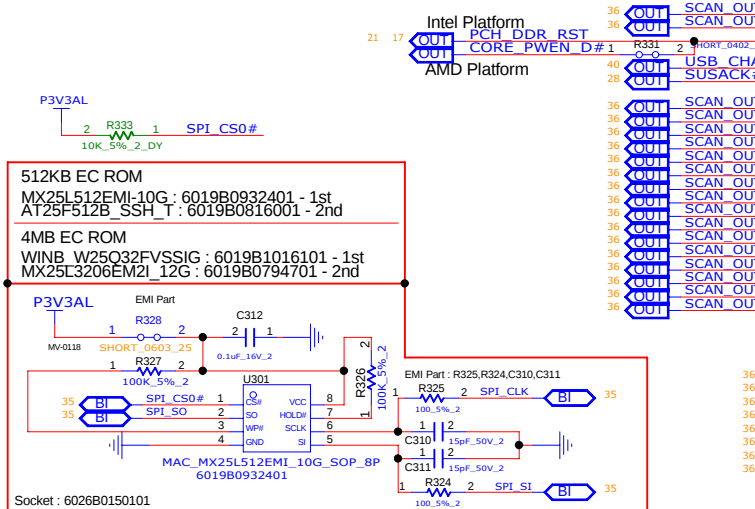
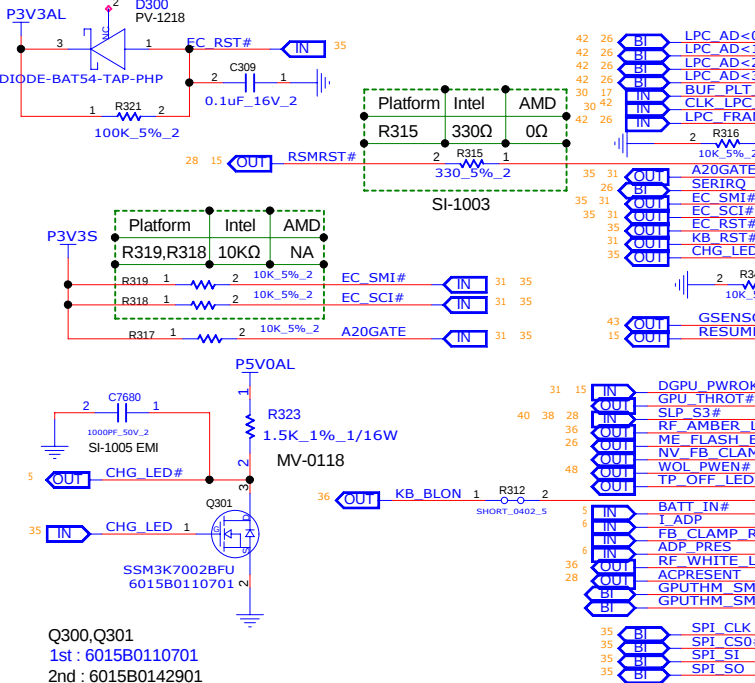
P5V0AL
R323 1.5K_1%_1/16W
C7680 1000PF_50V_2
SI-1005 EMI
CHG_LED#
Q301
SSM3K7002BFU
6015B0110701

Q300, Q301
1st: 6015B0110701
2nd: 6015B0142901

512KB EC ROM
MX25L512EMI-10G: 6019B0932401 - 1st
AT25F512B SSH_T: 6019B0816001 - 2nd

4MB EC ROM
WINB_W25Q32FVSSIG: 6019B1016101 - 1st
MX25L3206EM2I_12G: 6019B0794701 - 2nd

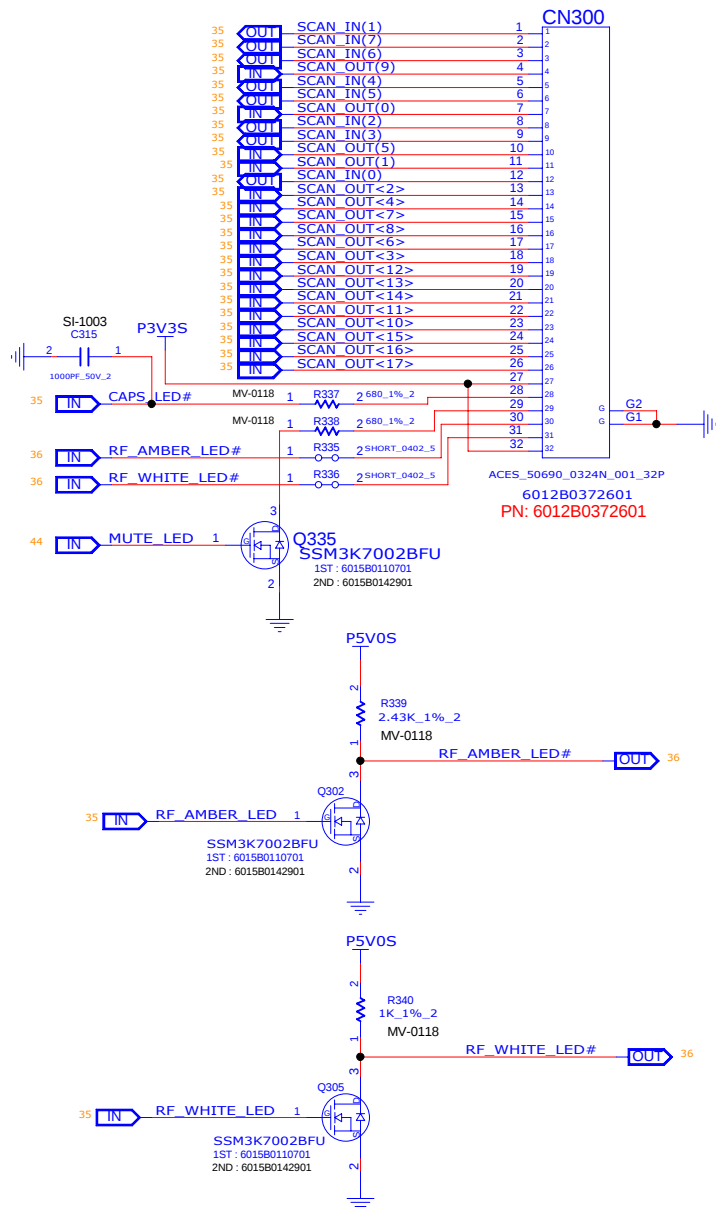
Socket: 6026B0150101



Location	Part number	Factory	Manufacturer Part No	Marking
D300	1st: 6011A0026801	DIODES	D-BAT54-7	KL1
	2nd: 60110GA0367T	NXP	BAT54	L4
Q300	1st: 6015B0110701	TOSHIBA	SSM3K7002BFU	NM
Q301	2nd: 6015B0142901	DIODES	DMN65D8LW-7	MM3
U301	1st: 6019B0932401	MXIC	MX25L512EMI-10G	
512KB	2nd: 6019B0816001	ATMEL	AT25F512B-SSH-T	
U301	1st: 6019B1016101	WINBOND	W25Q32FVSSIG	
4MB	2nd: 6019B0794701	MXIC	MX25L3206EM2I-12G	
U301	1st: 6019B0959901	WINBOND	W25Q64FVSSIG	
8MB	2nd: 6019B0813101	MXIC	MX25L6406EM2I-12G	

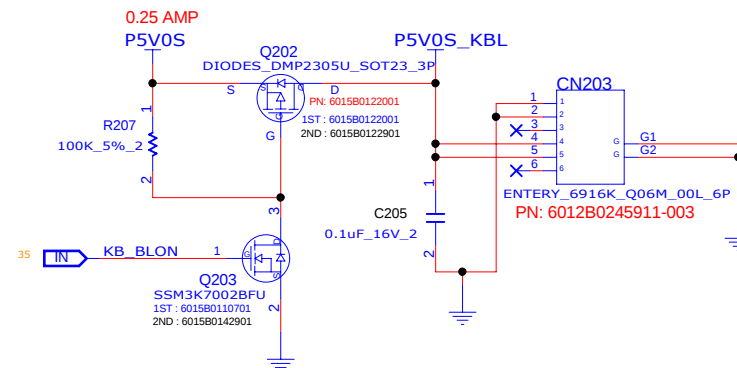
INVENTEC
TITLE
MODEL, PROJECT, FUNCTION
Block Diagram
SIZE A3 CODE CS DOC NUMBER 1310A2548201 REV A02
CHANGE by Wilson Lin DATE 18-DEC-2012 SHEET 35 of 58

KEYBOARD CONN(32 PIN)



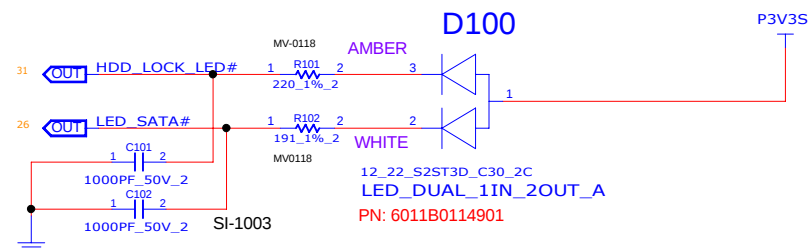
CONNECTOR KEY BOARD 200~299

KEYBOARD BACKLIGHT

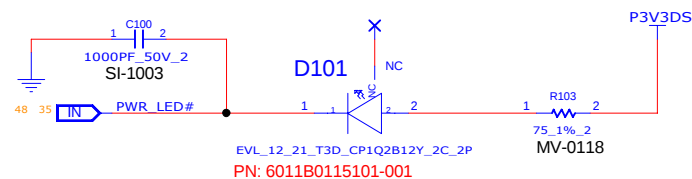


LED 100~199

HDD LED



POWER LED



INVENTEC

TITLE			
MODEL PROJECT,FUNCTION			
KB_CONN & LED			
SIZE A3	CODE CS	DOC NUMBER 1310A2548201	REV A02

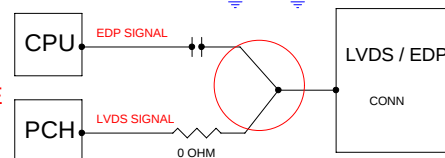
CHANGE by Wison Lin DATE 18-DEC-2012

SHEET 36 of 58

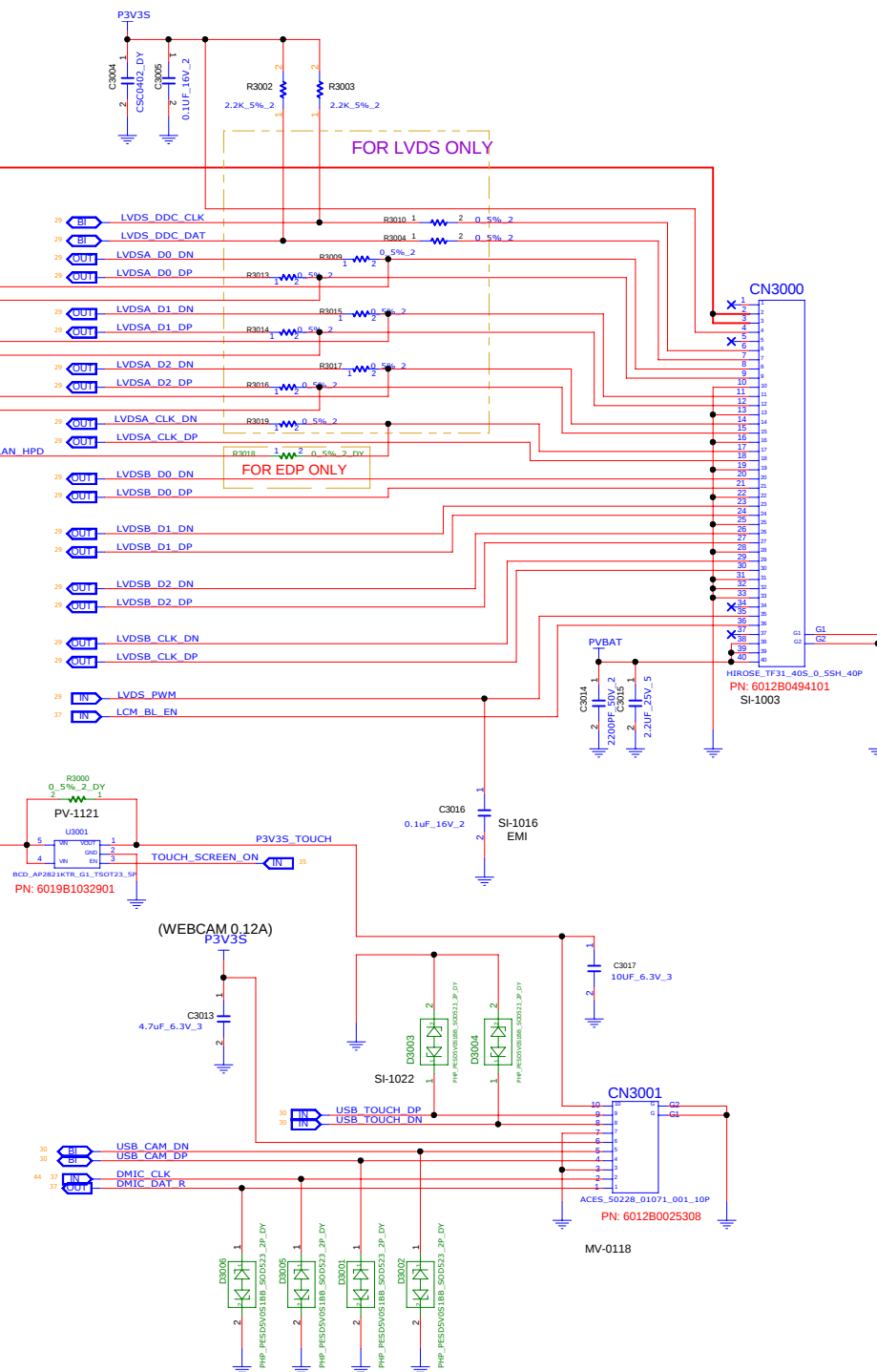
LOCATION 3000~3049
VER.01 20120822



NOTE :
LAYOUT TRACE AS SHORTER AS POSSIBLE



CO-LAYOUT	LVDS	EDP
Q4900, R4901	×	○
R4600	×	○
R4500, R4523	○	×
R4524, R4525	×	○
C3006, C3007, C3009 C3010, C3011, C3012	×	○
R3018	×	○
R4727, R4882	×	○
C4730, C4731, C4732 L4701, R4728, C4796	○	×
R4807, R4808	○	×
R3002, R3003, R3004 R3009, R3010, R3013 R3014, R3015, R3016 R3017, R3019	○	×

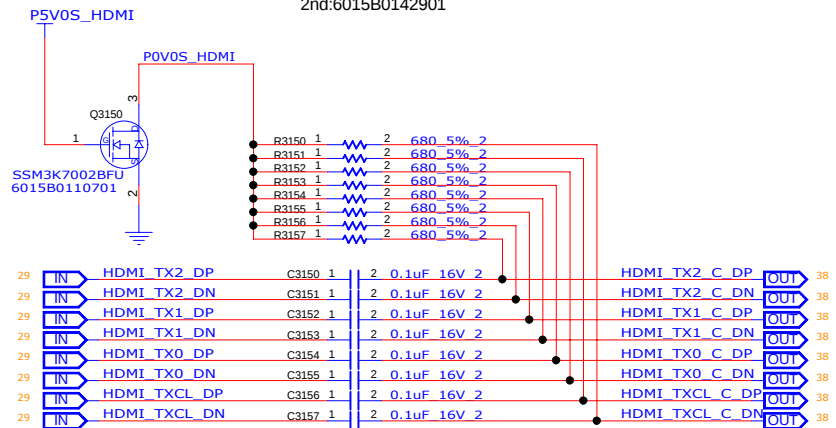
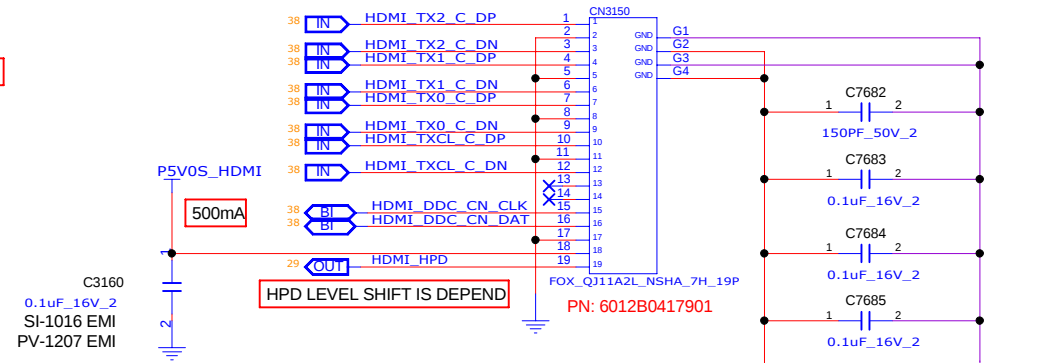
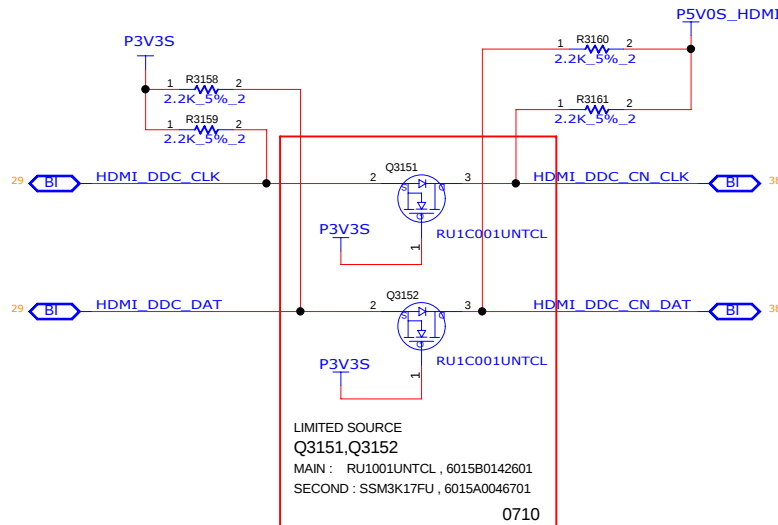
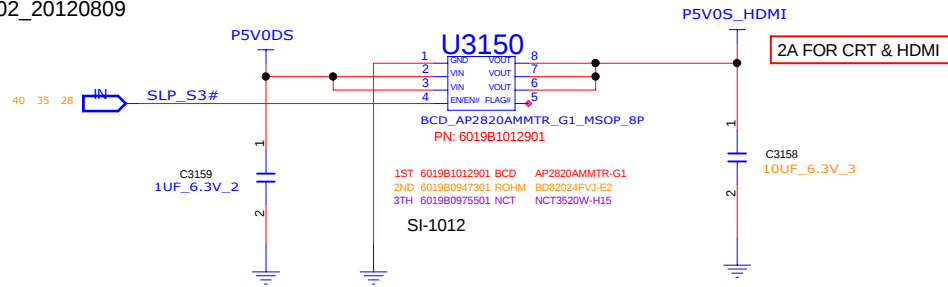


WEBCAM+TOUCHN SCREEN

INVENTEC				
TITLE MODEL,PROJECT,FUNCTION LVDS				
SIZE C	CODE CS	DOC. NUMBER 13110A2548201		REV A02
SHEET		37	58	

HDMI

Location 3150 ~ 3199
Ver.02_20120809



Location	Part number	Factory	Manufacturer Part No	Marking
D300	1ST : 6011A0026801	DIODES	D-BAT54-7	KL1
	2nd : 60110GA0367T	NXP	BAT54	
Q300	1ST : 6015B0124601	NXP	2N7002P	LWx
Q301	2nd : 6015B0140901	DIODES	DMN65D8L-7	MM6
U301	1ST : 6019B0932401	MXIC	MX25L512EMI-10G	
512KB	2nd : 6019B0816001	ATMEL	AT25F512B-SSH-T	
U301	1ST : 6019B1016101	WINBOND	W25Q32FVSSIG	
4MB	2nd : 6019B0794701	MXIC	MX25L3206EM2I-12G	

INVENTEC

TITLE
MODEL, PROJECT, FUNCTION
HDMI_CONN

SIZE CODE DOC NUMBER REV
A3 CS 1310A2548201 A02

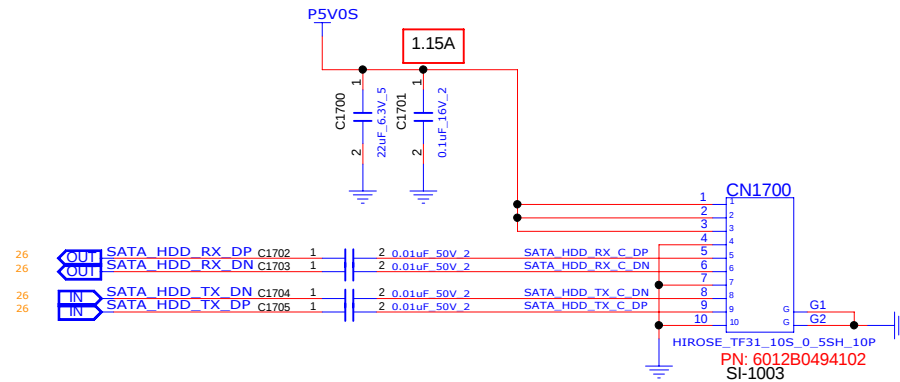
CHANGE by Wison Lin DATE 18-DEC-2012

SHEET 38 of 58

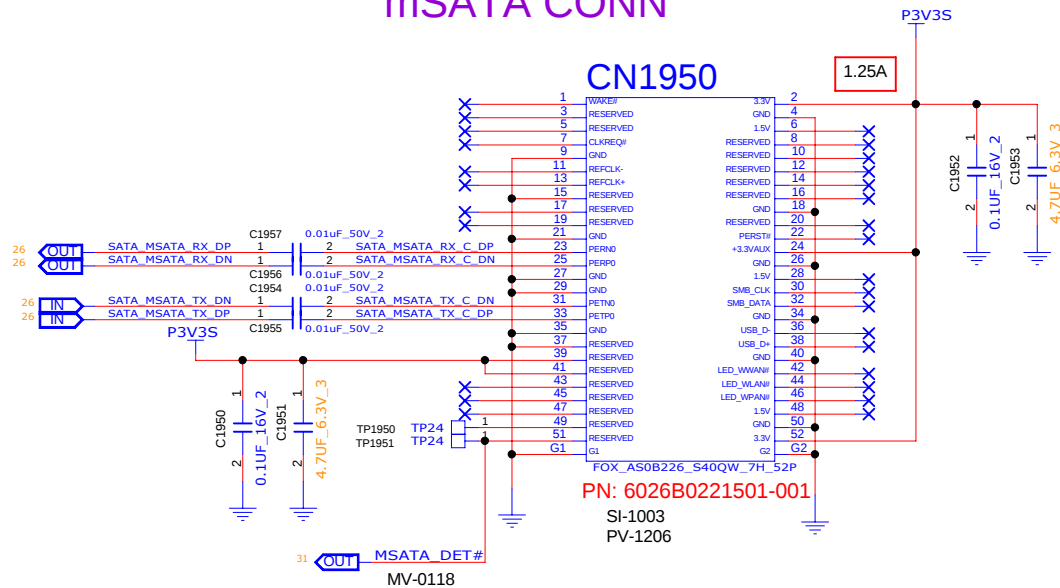
SATA HDD
Location 1700 ~ 1749

mSATA
Location 1950 ~ 1999
Ver.01_20120808

SATA HDD CABLE CONN on MB



mSATA CONN

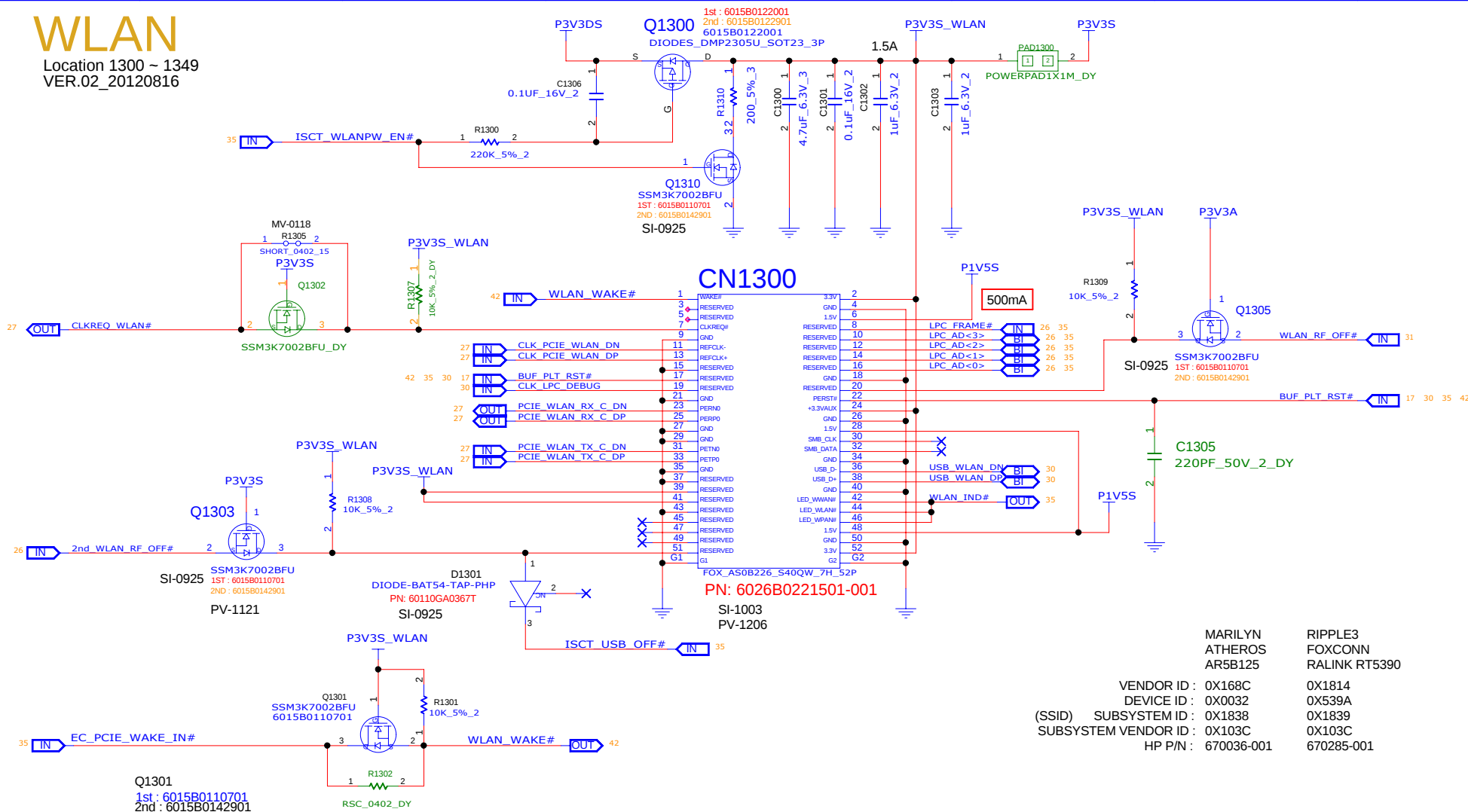


INVENTEC

TITLE			
MODEL,PROJECT,FUNCTION			
SATA HDD & SATA ODD			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A2548201	A02

WLAN

Location 1300 ~ 1349
VER.02_20120816



MARILYN
ATHEROS
AR5B125

RIPPLE3
FOXCONN
RALINK RT5390

VENDOR ID : 0X168C
DEVICE ID : 0X0032
(SSID) SUBSYSTEM ID : 0X1838
SUBSYSTEM VENDOR ID : 0X103C
HP P/N : 670036-001

0X1814
0X539A
0X1839
0X103C
670285-001

Location	Part number	Factory	Manufacturer Part No	Marking
D1300	1st : 6011A0026801	DIODES	D-BAT54-7	KL1
	2nd : 60110GA0367T	NXP	BAT54	
Q1301	1st : 6015B0110701	TOSHIBA	SSM3K7002BFU	NM
	2nd : 6015B0142901	DIODES	DMN65D8LW-7	MM3
Q1300	1st : 6015B0122001	DIODES	DMP2305U	23P
	2nd : 6015B0122901	TOSHIBA	SSM3J327R	KFG

INVENTEC

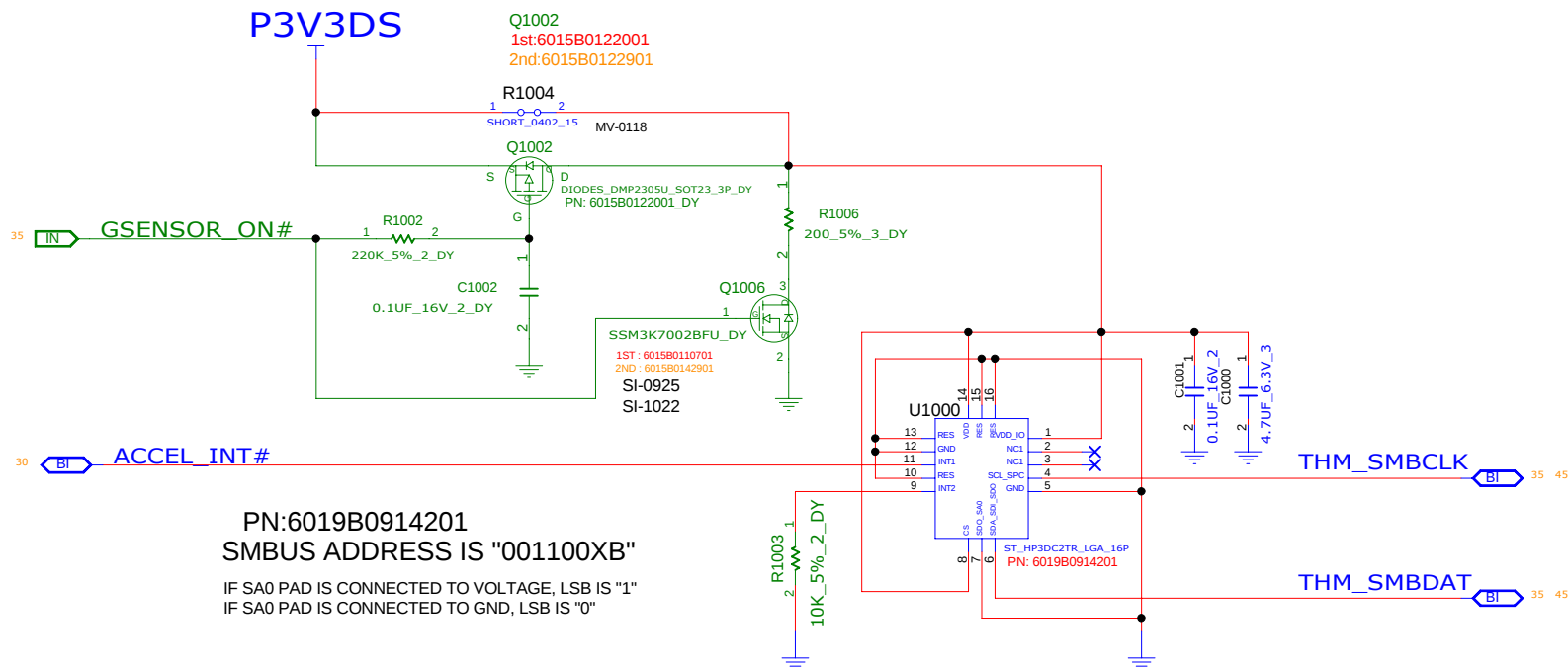
TITLE			
MODEL,PROJECT,FUNCTION			
SIZE A3	CODE CS	DOCNUMBER 1310A2548201	REV A02

CHANGE by Wison Lin DATE 18-DEC-2012

SHEET 42 of 58

Loctaion 1000 ~ 1099
Ver.01 20120807

P3V3DS



PN:6019B0914201
SMBUS ADDRESS IS "001100XB"
IF SA0 PAD IS CONNECTED TO VOLTAGE, LSB IS "1"
IF SA0 PAD IS CONNECTED TO GND, LSB IS "0"

TITLE	MODEL,PROJECT,FUNCTION

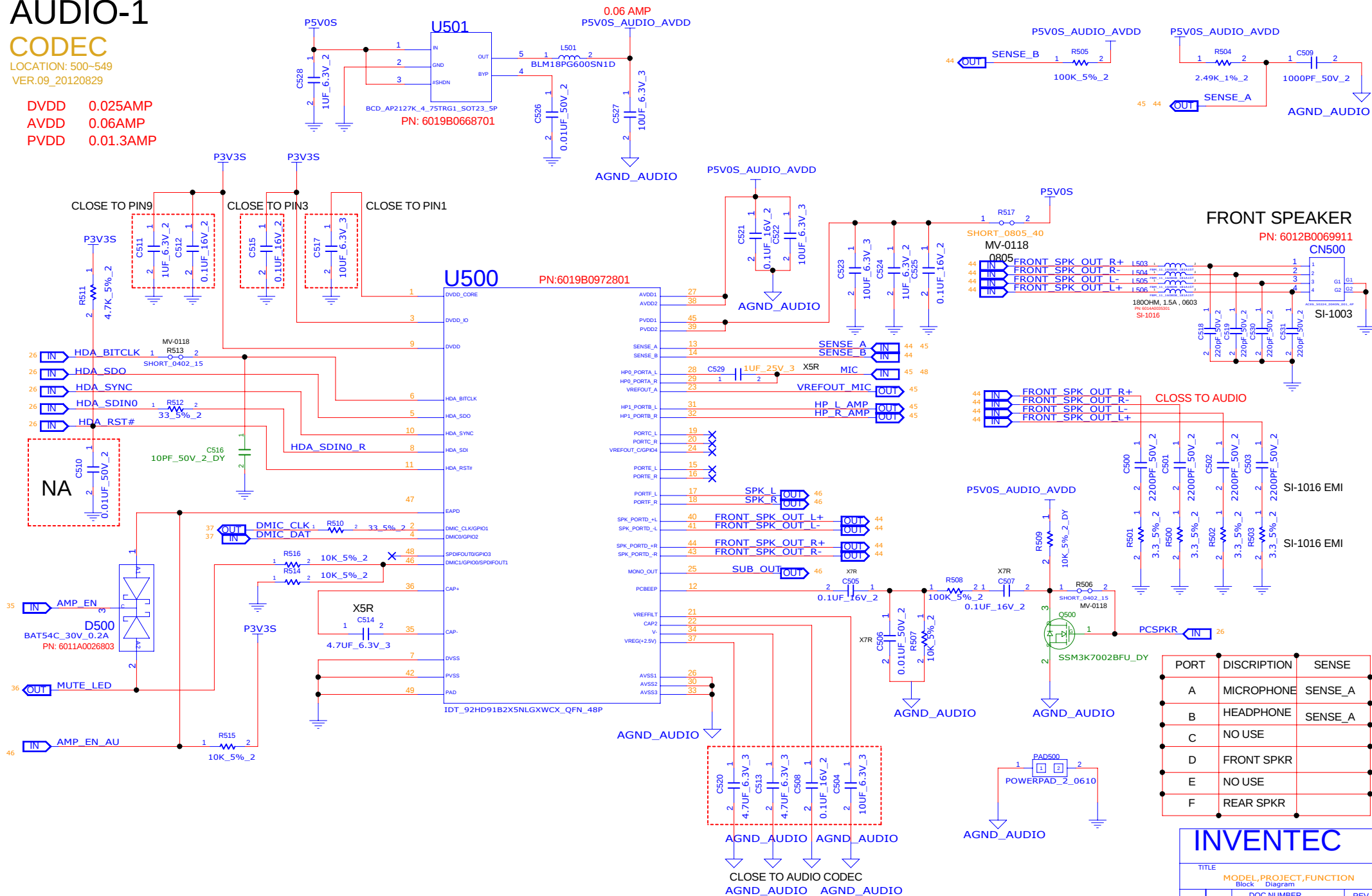
SIZE A3	CODE CS	DOC.NUMBER 1310A2548201	FRONT A
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SHEET 43 of 58

CHANGE by	Wison Lin	DATE	18-DEC-2012
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LOCATION: 500~549
VER.09_20120829

DVDD	0.025AMP
AVDD	0.06AMP
PVDD	0.01.3AMP

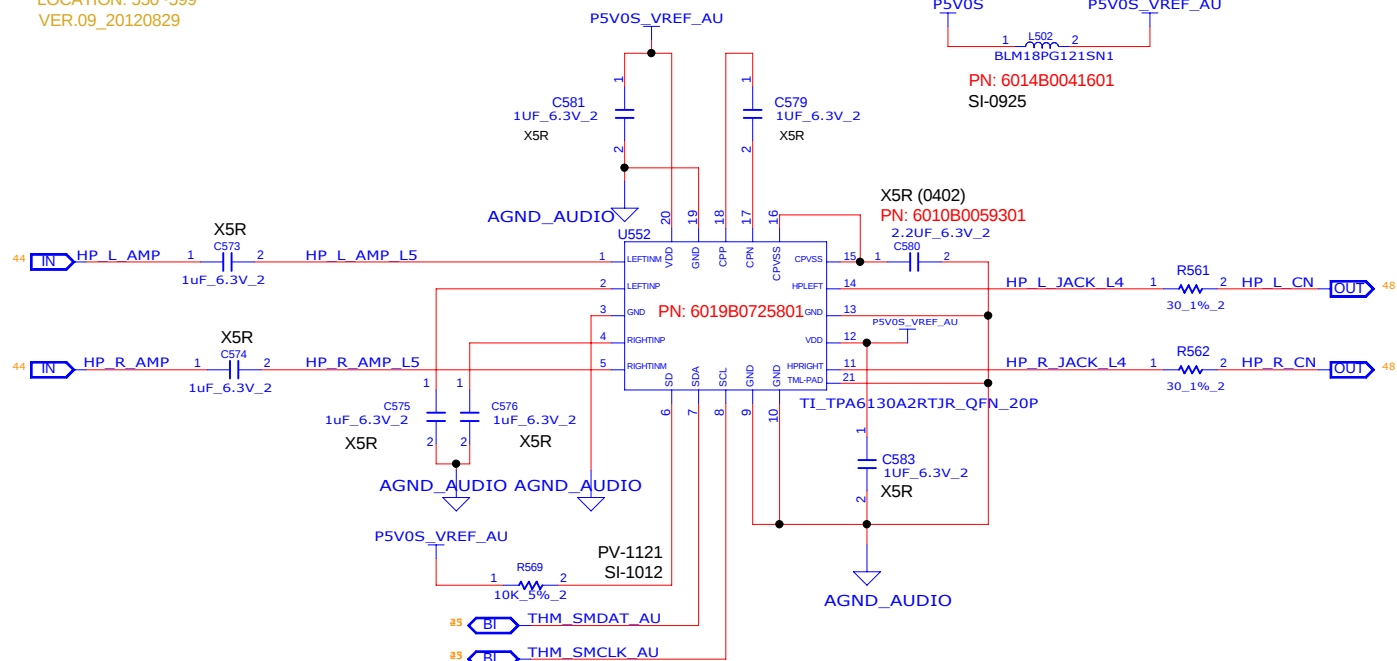


PORT	DISCRPTION	SENSE
A	MICROPHONE	SENSE_A
B	HEADPHONE	SENSE_A
C	NO USE	
D	FRONT SPKR	
E	NO USE	
F	REAR SPKR	

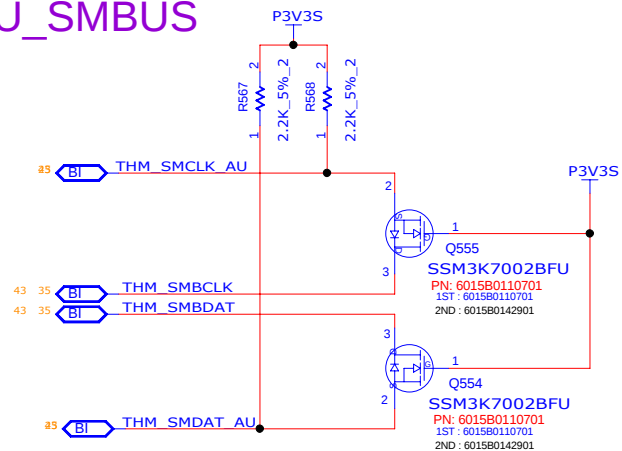
INVENTEC

TITLE			
MODEL,PROJECT,FUNCTION Block Diagram			
SIZE A3	CODE CS	DOC.NUMBER 1310A2548201	RE AC

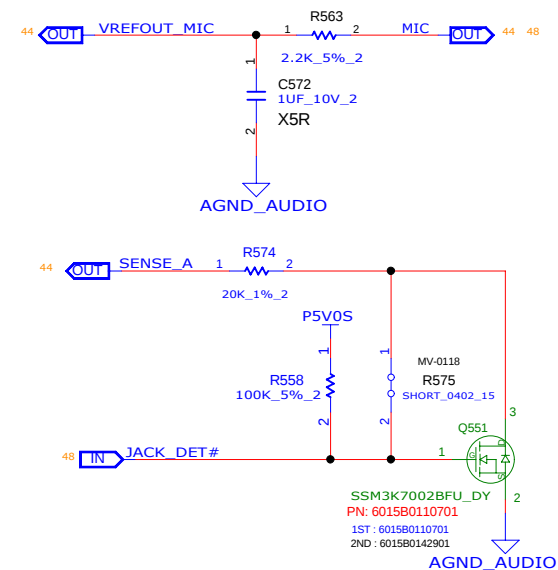
AUDIO-2 CODEC

LOCATION: 550-599
VER.09_20120829

AU_SMBUS



COMBO JACK



Location	Part number	Factory	Manufacturer Part No	Marking
Q9401	1st : 6015B0122001	DIODES	DMP2305U	23P
	2nd : 6015B0122901	TOSHIBA	SSM3J327R	KFG
L9401	1st : 6014B0200401	TAI-TECH	SWF2520CF-2R2M-R15	
	2nd : 6014B0190301	CYNTEC	PHI25201B-2R2MS	
X9401	1st : 6018B0060301	EPSON	FA-238G	2500M
	2nd : 6018B0054701	TXC	7V25000014	T250

INVENTEC

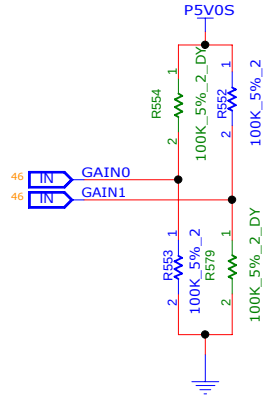
TITLE			
MODEL,PROJECT,FUNCTION			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A2548201	A02

AUDIO-3

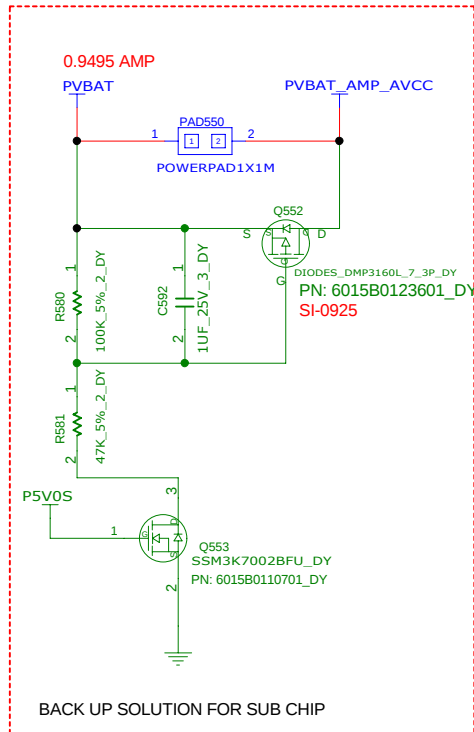
CODEC

LOCATION: 550-599

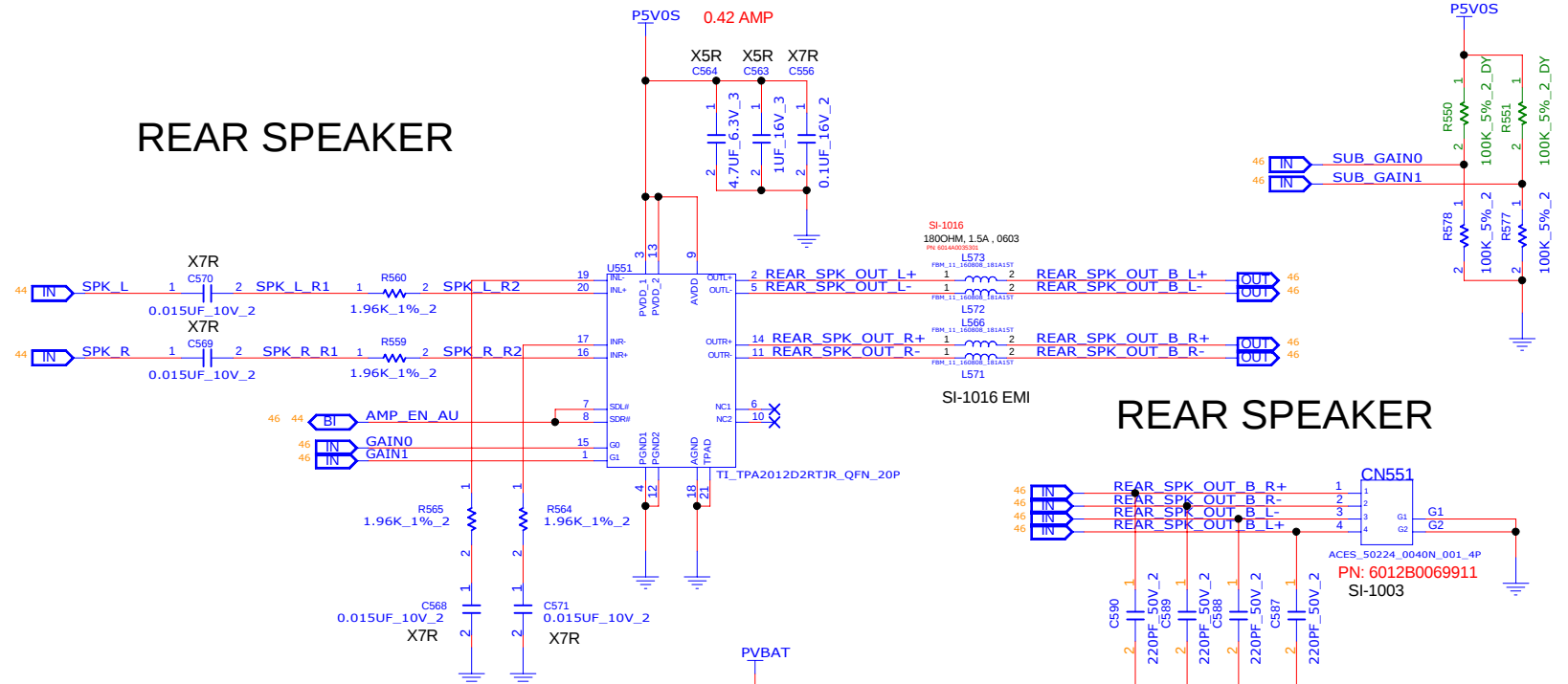
VER.09_20120829



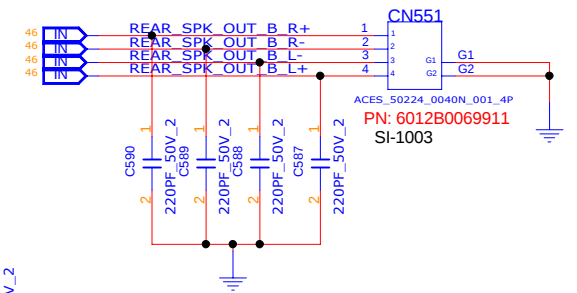
SUBWOOFER



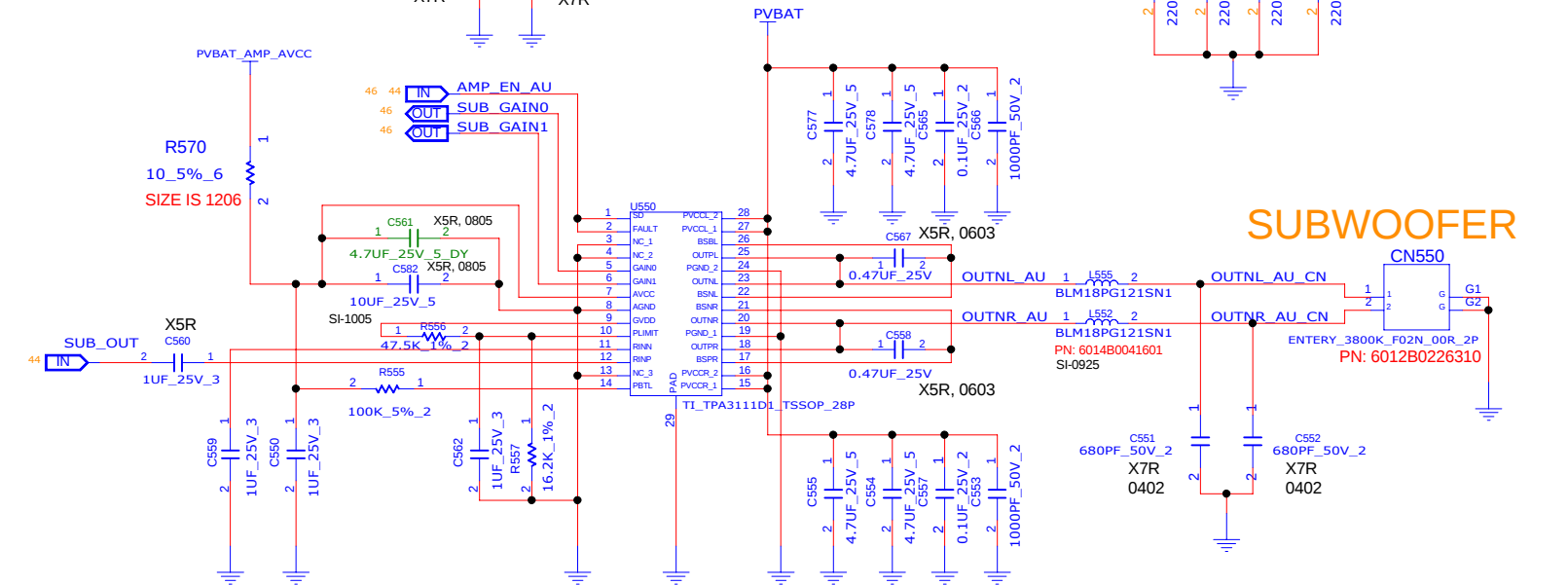
REAR SPEAKER



REAR SPEAKER



SUBWOOFER

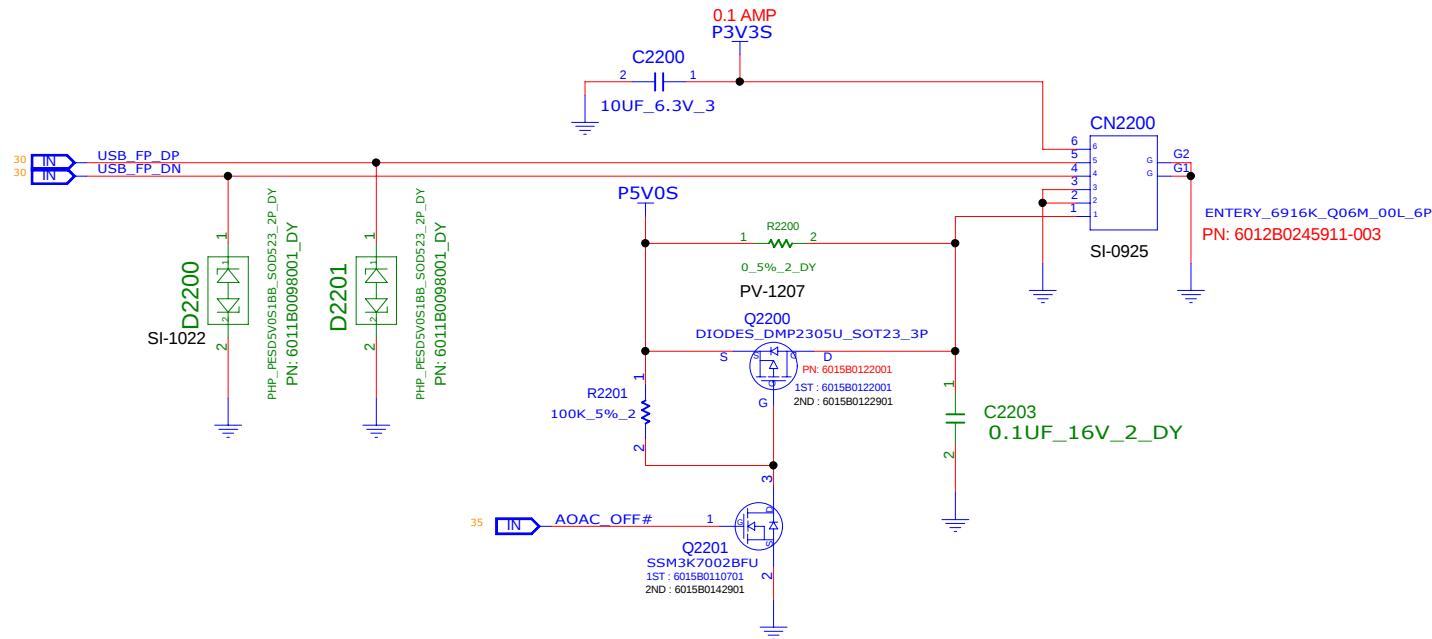


TI TPA311D1 (HP PART NUMBER HPA00836PWPR)

INVENTEC

TITLE			
MODEL,PROJECT,FUNCTION			
Block Diagram			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A2548201	A02

FINGER PRINT



VFM5302-3192 PIN ASSIGNMENTS

Pin Number	Signal Name	Test Point
1	3.3V _{CC}	TP3
2	DP	TP1
3	DM	TP2
4	GND	TP4
5	GND	TP4
6	5V _{CC}	TP6

Figure 4 - Connector Pin-out

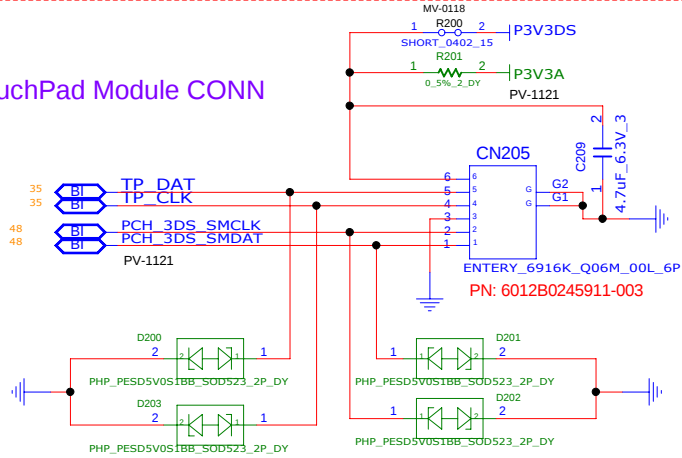
INVENTEC

TITLE			
MODEL, PROJECT, FUNCTION			
Block Diagram			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A2548201	A02

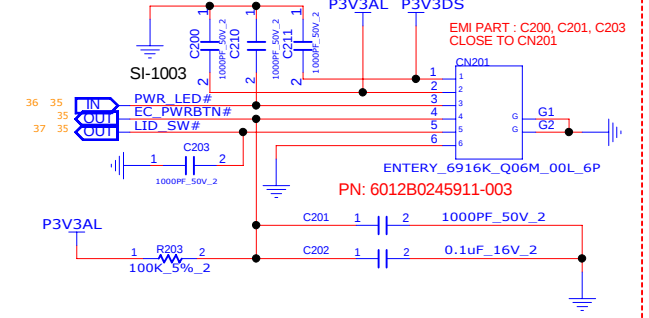
CHANGE by: Wilson Lin DATE: 18-DEC-2012

SHEET 47 of 58

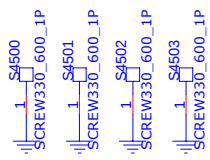
TouchPad Module CONN



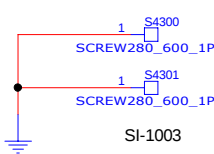
POWER BUTTON CONN ON MB PV-1121



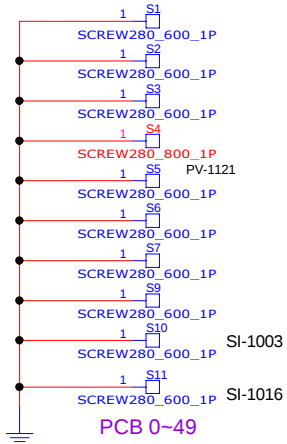
FOR CPU



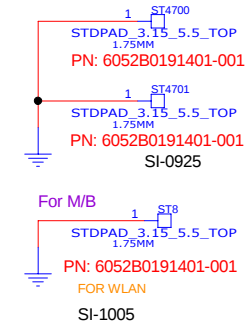
FOR FAN



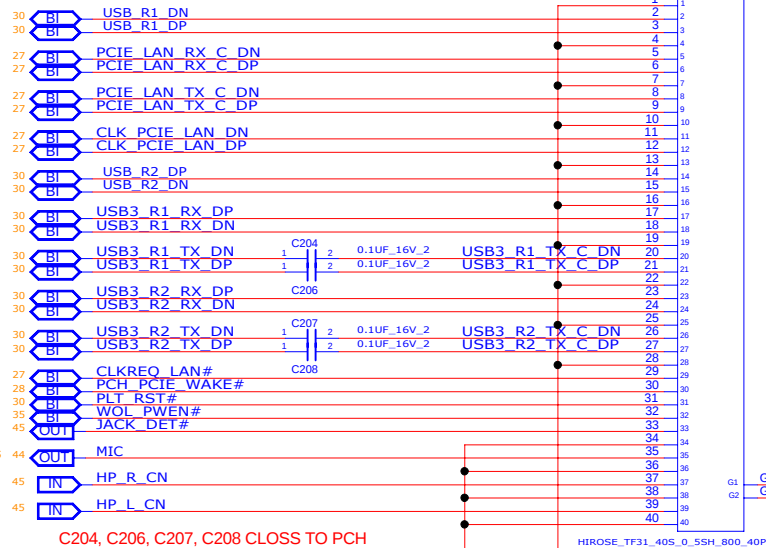
For M/B



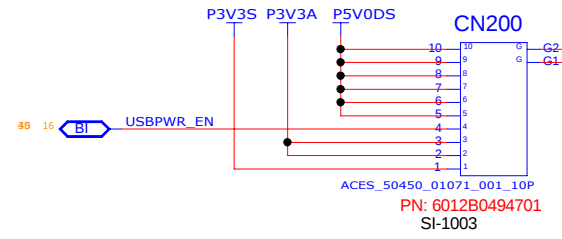
FOR PCH



MB CONNECTOR TO AUB



CN202



PN: 6012B0494101
SI-1003
PN: 6012B0494103
MV-0118

INVENTEC

TITLE			
MODEL PROJECT FUNCTION			
POWER BUTTON			
SIZE A3	CODE CS	DOC NUMBER 1310A2548201	REV A02
SHEET 48 of 58			

AUB
LOCATION: 9000~9999
VER.03_20120814

USB BOARD-PV

INVENTEC

TITLE
MODEL,PROJECT,FUNCTION
Block Diagram

SIZE A3	CODE CS	DOC.NUMBER 1310A2548201	REV A02
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CHANGE by Wilson Lin DATE 18-DEC-2012

SHEET 49 of 58

A



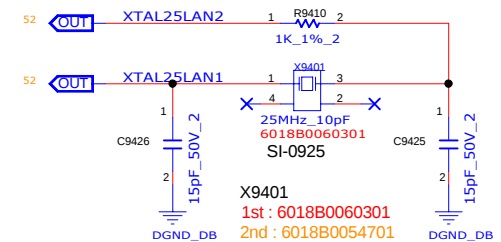
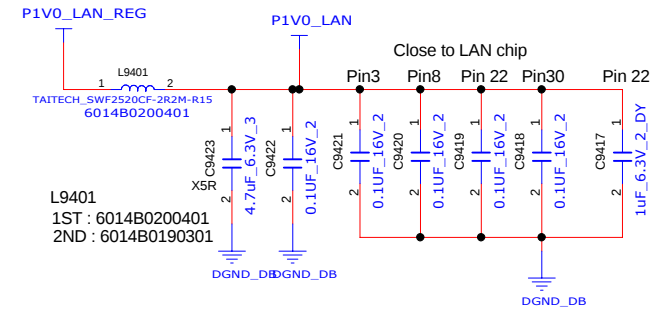
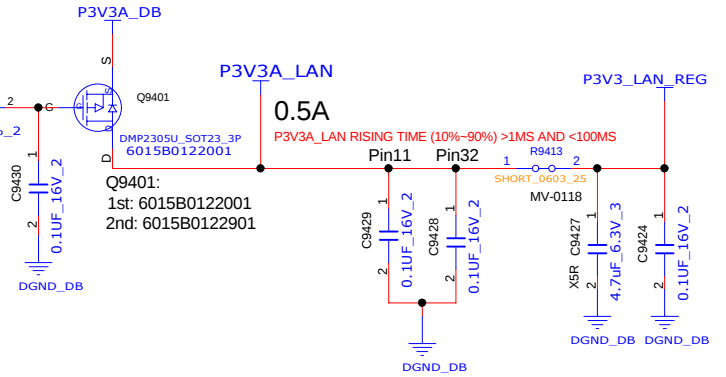
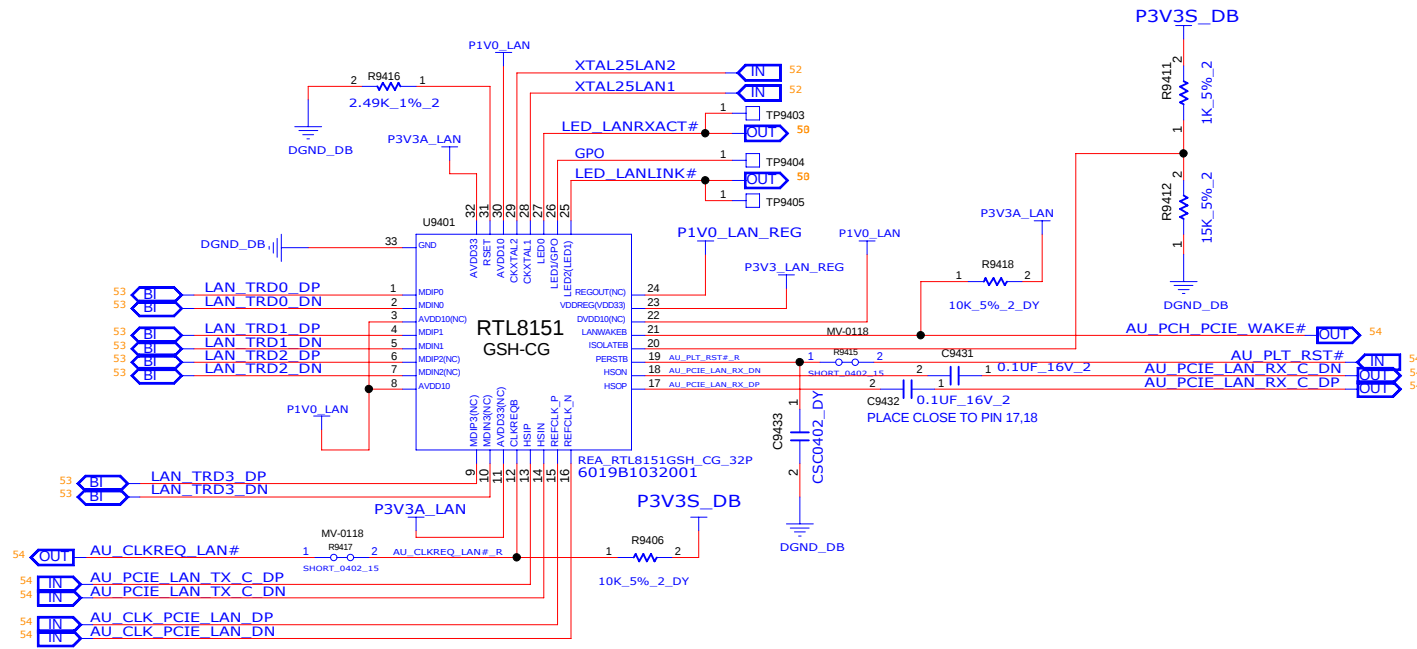
INVENTEC

CHANGE by	Wison Lin	DATE	18-DEC-2012
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LAN (Controller)

Location 9400 ~ 9499
Ver.03_20120807

6019B1032101_RTL8161GSH-CG_10/100/1000
6019B1032001_RTL8151GSH-CG_10/100/1000



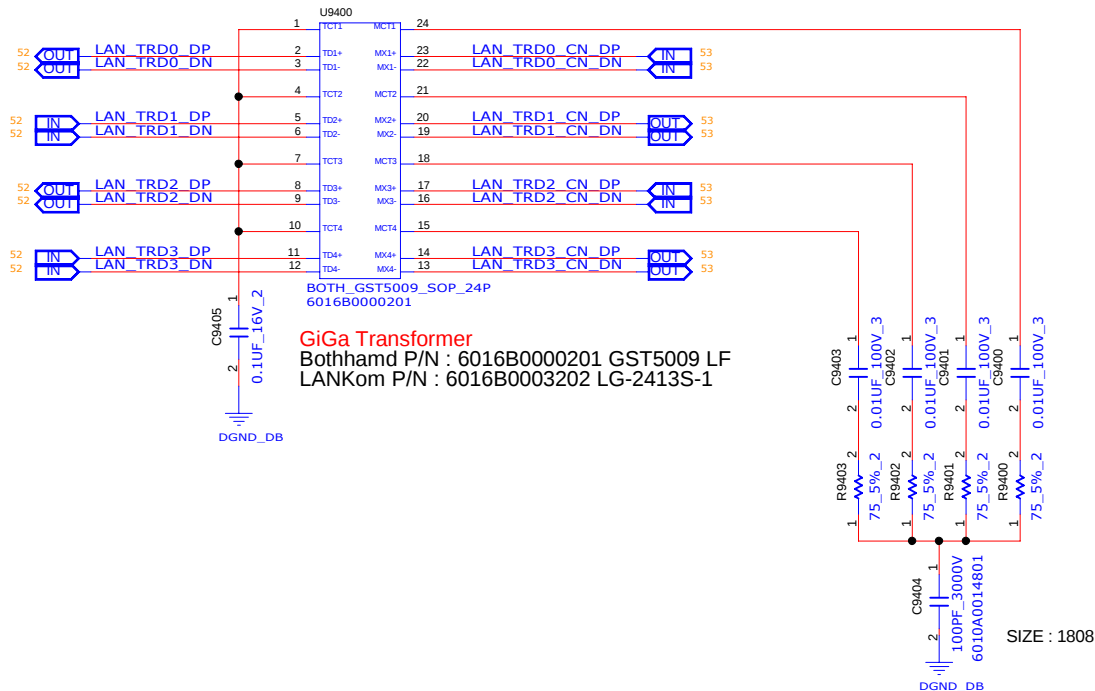
Location	Part number	Factory	Manufacturer Part No	Marking
Q9401	1st : 6015B0122001	DIODES	DMP2305U	23P
	2nd : 6015B0122901	TOSHIBA	SSM3J327R	KFG
L9401	1st : 6014B0200401	TAI-TECH	SWF2520CF-2R2M-R15	
	2nd : 6014B0190301	CYNTEC	PHI25201B-2R2MS	
X9401	1st : 6018B0060301	EPSON	FA-238G	2500M
	2nd : 6018B0054701	TXC	7V25000014	T250

INVENTEC

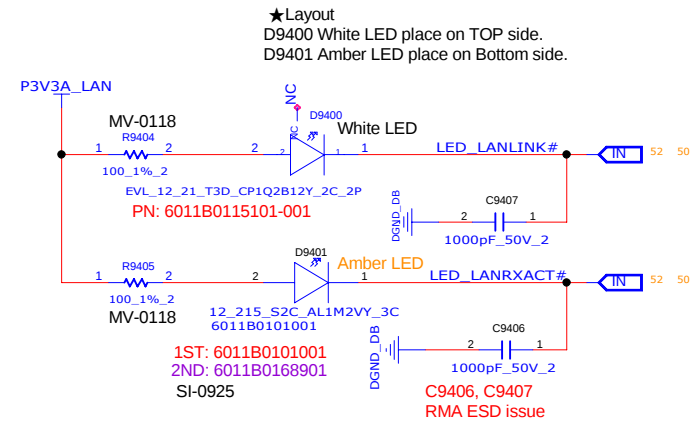
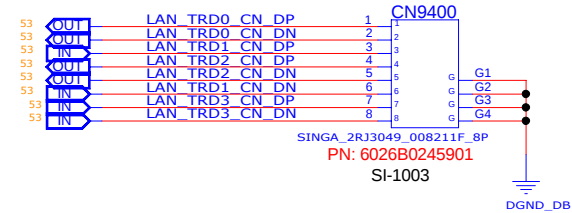
TITLE			
MODEL,PROJECT,FUNCTION			
Block Diagram			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A2548201	A02

LAN (Transformer & RJ45)

Location 9400 ~ 9499
Ver.06_20120813



RJ-45



Location	Part number	Factory	Manufacturer Part No	Color
D9400	6011B0115101	EVERLIGHT	T3D_CP1Q2B12Y_2C	White
D9401	6011B0101001	EVERLIGHT	S2C_AL1M2VY_3C	Amber

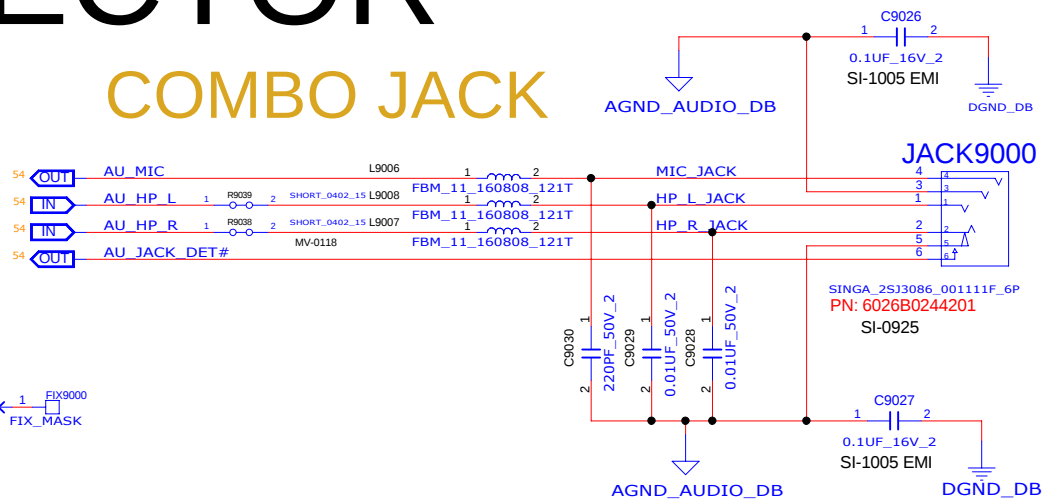
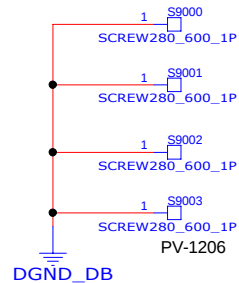
Location	Part number	Factory	Manufacturer Part No	Marking
D300	1st : 6011A0026801	DIODES	D-BA754-7	KL1
	2nd : 60110GA0367T	NXP	BAT54	L4
Q300	1st : 6015B0110701	TOSHIBA	SSM3K7002BFU	NM
Q301	2nd : 6015B0142901	DIODES	DMN65D8LW-7	MM3
U301	1st : 6015B0932401	MXIC	MX25L512EML-10G	
512KB	2nd : 6019B0816001	ATMEL	AT25F512B-SSH-T	
U301	1st : 6019B1016101	WINBOND	W25Q32FVSSIG	
4MB	2nd : 6019B0794701	MXIC	MX25L3206EM2I-12G	
U301	1st : 6015B0955901	WINBOND	W25Q64FV55IG	
8MB	2nd : 6019B0813101	MXIC	MX25L6406EM2I-12G	

INVENTEC

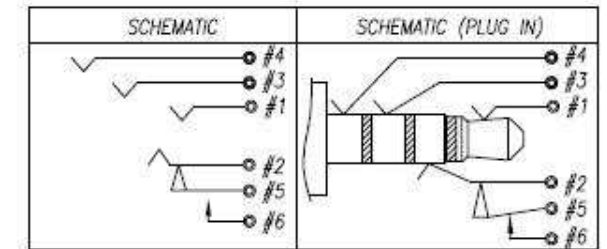
TITLE			
MODEL,PROJECT,FUNCTION			
Block Diagram			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A2548201	A02

CONNECTOR

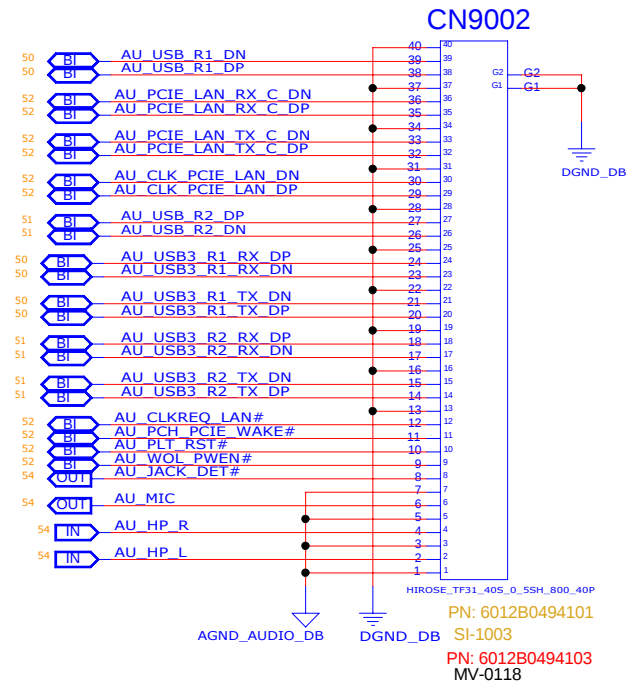
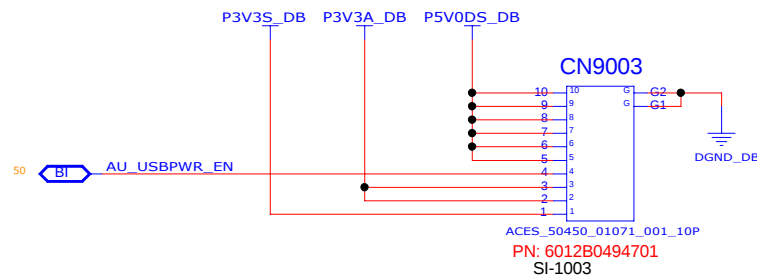
COMBO JACK



JACK9000



MB TO AUB CONNECTOR



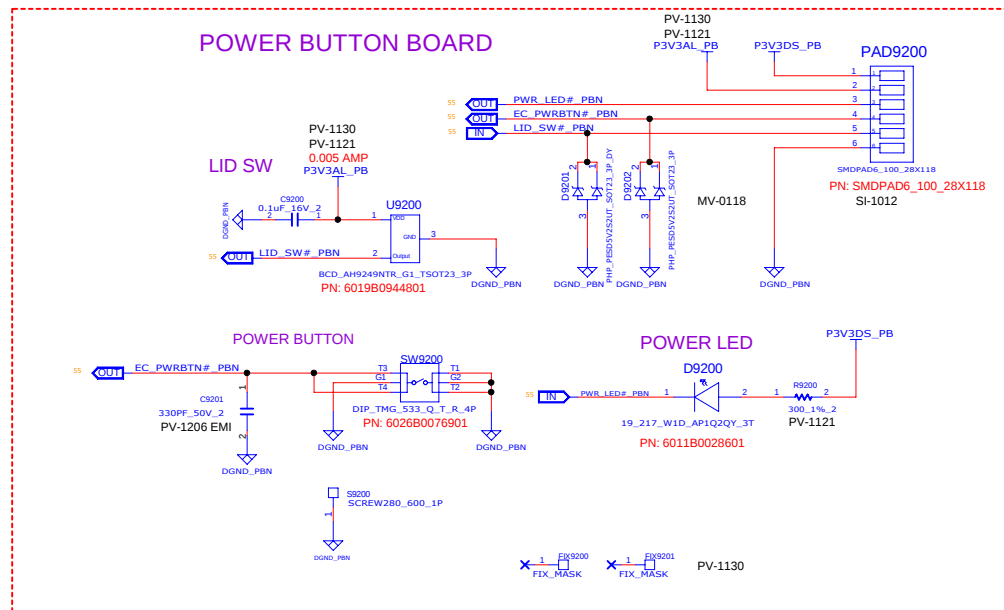
INVENTEC

TITLE			
MODEL,PROJECT,FUNCTION			
Block		Diagram	
SIZE	CODE	DOC.NUMBER	REV
A3	CS	1310A2548201	A02

CHANGE by: Wilson Lin DATE: 18-DEC-2012

SHEET 54 of 58

POWER BUTTON BOARD



INVENTEC

TITLE			
MODEL,PROJECT,FUNCTION			
Block Diagram			
SIZE	CODE	DOC NUMBER	REV
C	CS	1310K2516501	A02

CHANGE BY: Wipon Loo DATE: 18-DEC-2012

SHEET 1 OF 1

8	7	6	5	4	3	2	1
1310A2552101 (6L) 1310A2552201 (8L) ESD BOARD 1 MV-0118							
USB BOARD (6L)1310A25485016050A2548501 USB BOARD (8L)1310A25486016050A2548601 POWER BOARD (6L)1310A25487016050A2548701 POWER BOARD (8L)1310A25488016050A2548801 EMI BOARD (6L)1310A25521016050A2552101 1310A2552102 EMI BOARD (8L)1310A25522016050A2552201 1310A2552202							
1310A2552102 (6L) 1310A2552202 (8L) ESD BOARD 2 MV-0118							
CHIEF RIVERDISNVIDIA N14P-GV24GSAMSUNG1310A2548301 (GEFORCE 630M)K4W4G1646B-HC11 CHIEF RIVERDISNVIDIA N14P-GV22GMICRON1310A2548302 (GEFORCE 630M)MT41K256M16HA-107G:E CHIEF RIVERUMAN/AN/AN/AN1310A2548201							
INVENTEC TITLEMODEL,PROJECT,FUNCTION BlockDiagram SIZEA3CODECSDOC NUMBER1310A2548201REV A02 CHANGE byWilson LipDATE18-DEC-2012SHEET56 of 58							
8	7	6	5	4	3	2	1

POWE UP

S5----->S0

S3



S3 TO DEEP S3

DEEP S3 TO S0

