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HSF Property: ROHS or Halogen-Free

# CALVIN DIS

## MV BUILD

2012.04.23

05/07/2012	2012-ECO-008893	D
08/23/2012	2012-ECO-007890	D
08/16/2012	2012-ECO-007325	B
02-APR-2012	2012-ECO-006245	A
DATE	CHANGE NO.	REV

INVENTEC			
DRAWN	EE	DATE	POWER
DESIGN	FTD CHEN	01.APR.2012	ALAN USHER
CHECK	FTD CHEN	01.APR.2012	ALAN USHER
RESPONSIBLE	FTD CHEN	01.APR.2012	ALAN USHER
TITLE			
CLAVIN DIS MAIN BOARD			
SIZE	A3	VER	A02
FILE NAME	CALVIN-DIS-MB-1310A247001	SIZE	A3
PIN	6050A247001	CODE	CS
		DOC NUMBER	1310A24700-0-ALG
		SHEET	REV

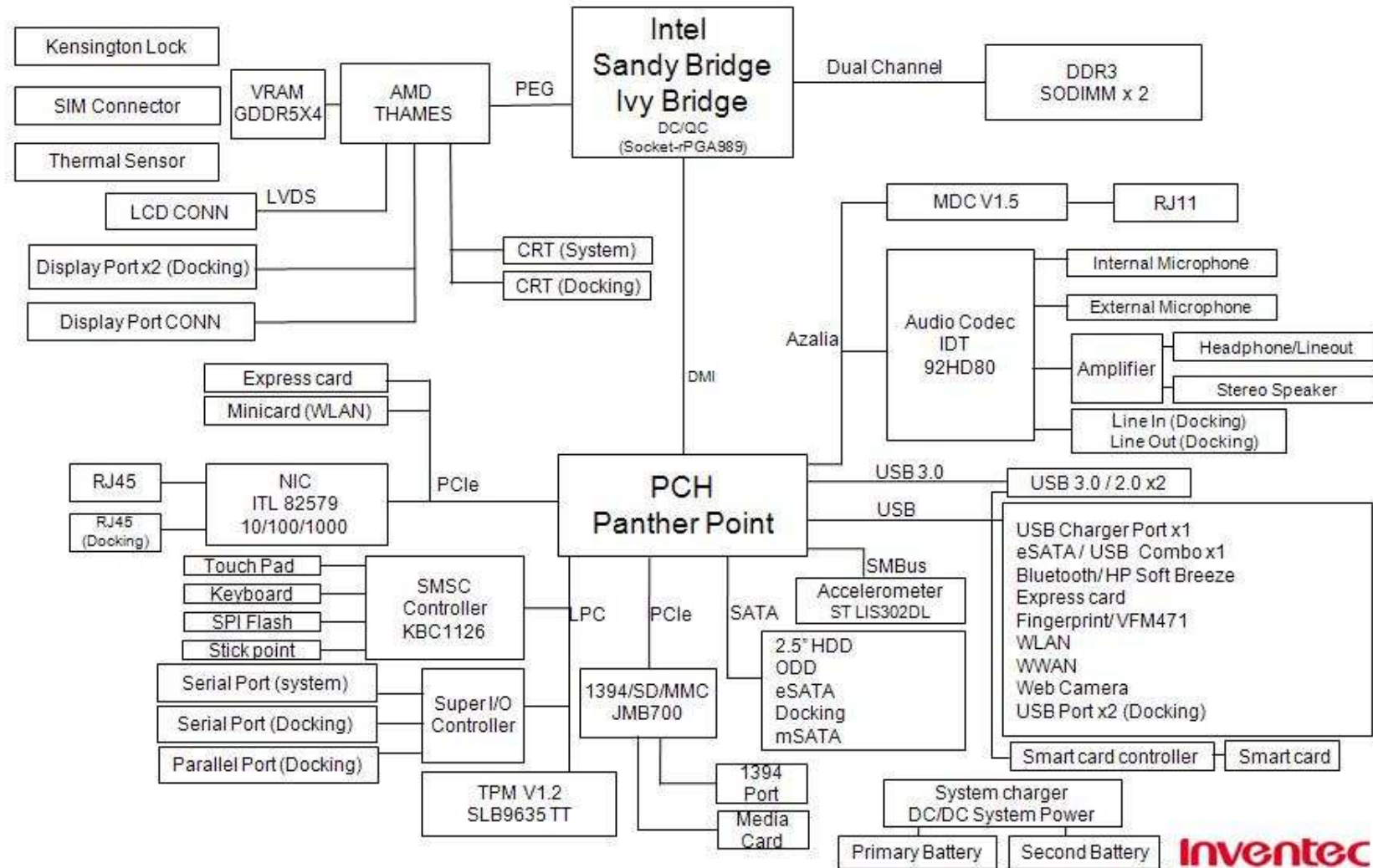
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10. SYSTEM POWER (P1V05_LAN_M)	37. PANTER POINT_6 (GPIO,VSS_NCFT,RSVD)	64. EXT. MIC / MIC / HP
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**INVENTEC**

TITLE			
CLAVIN DIS TABLE OF CONTENTS			
DOC NUMBER		REV	
1310A24700-0-ALG		D	
SIZE	CODE	SHEET	
A3	CS	2 of 73	

# CALVIN Discrete Block Diagram



INVENTEC

TITLE			
CLAVIN DIS BLOCK DIAGRAM			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A24700-0-ALG	D

CHANGE by: EDT, CHEN DATE: 23-APR-2012

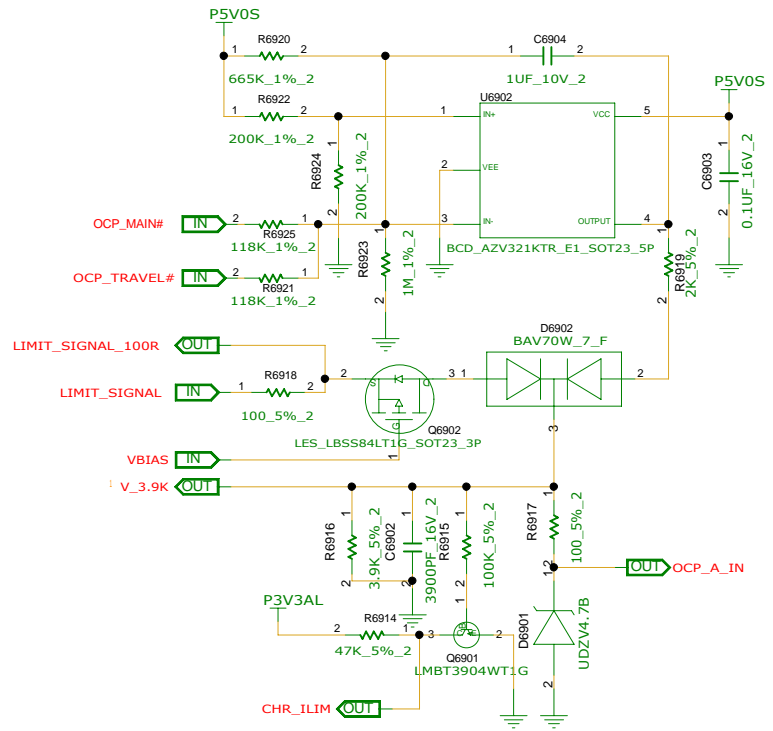
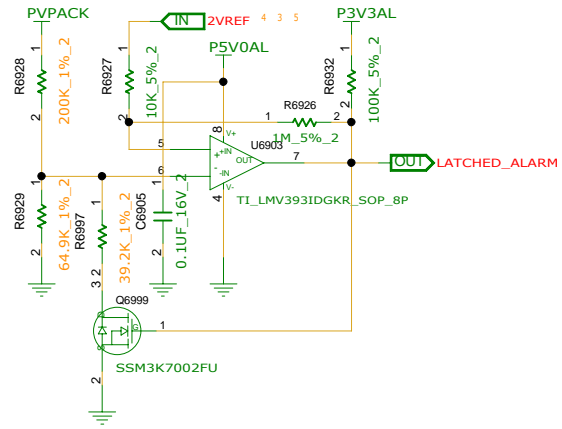
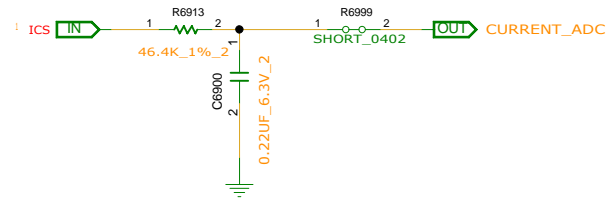
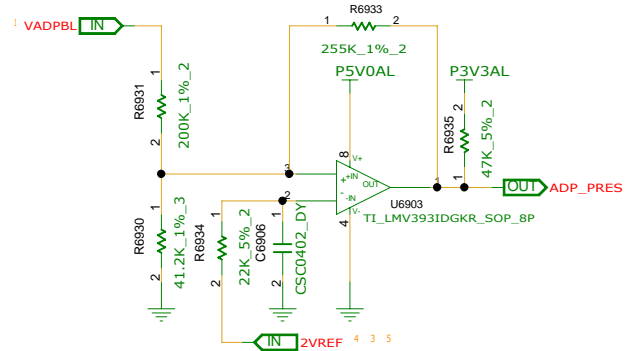
SHEET 3 of 73



TITLE			
CLAVIN DIS SYSTEM POWER(CHARGER)			
SIZE A3	CODE CS	DOC.NUMBER 1310A24700-0-ALG	



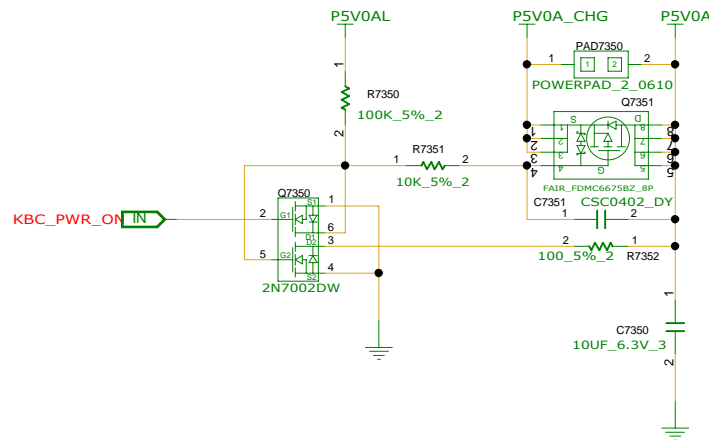
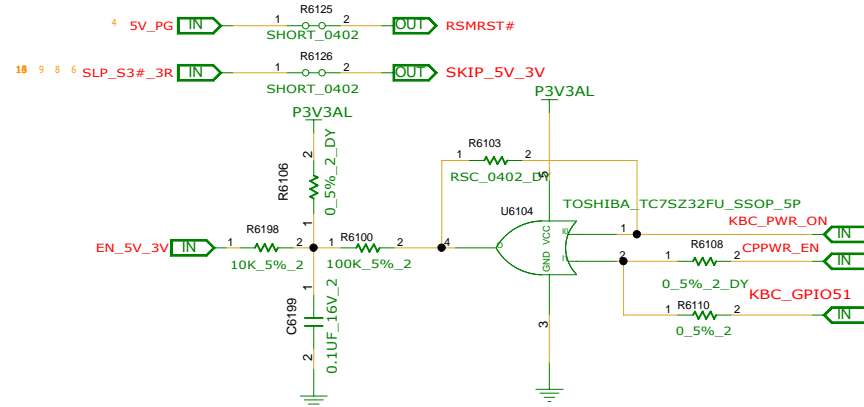
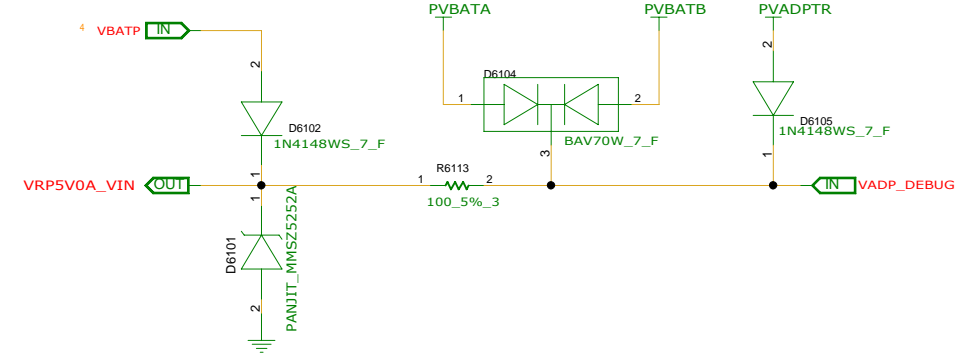
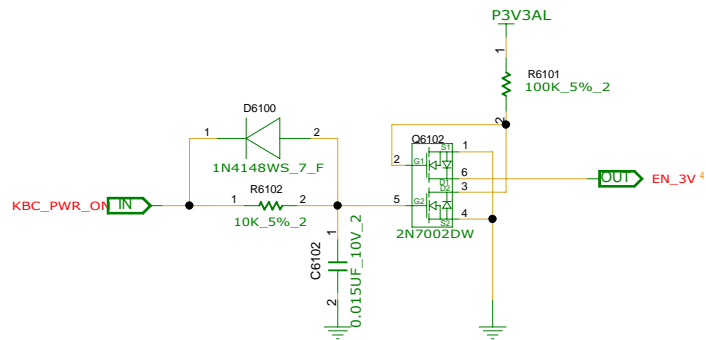
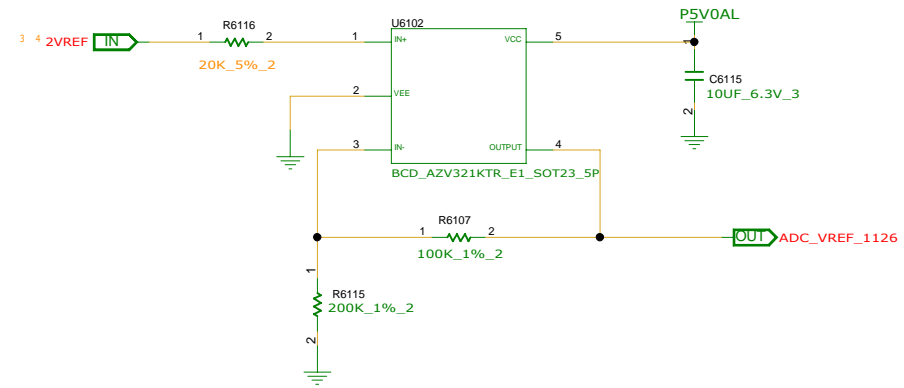
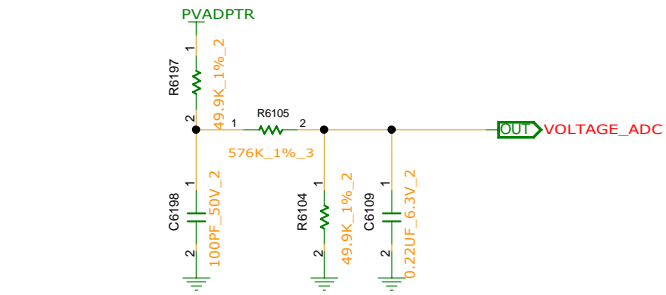
TITLE			
CLAVIN DIS SYSTEM POWER(BATT SELECTOR)			
SIZE A3	CODE CS	DOC.NUMBER 1310A24700-0-ALG	REV D



INVENTEC

TITLE			
CLAVIN , DIS SYSTEM POWER(OCP)			
SIZE		CODE	
A3	CS	DOCNUMBER	REV
1310A24700-0-ALG		D	





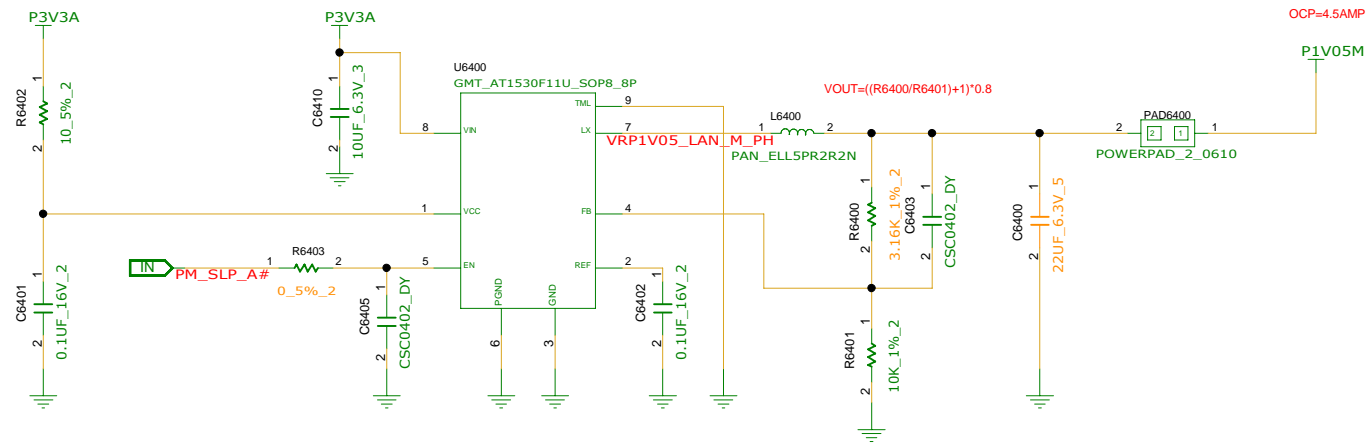
INVENTEC

TITLE			
CLAVIN_DIS			
P3V3AB&P5V0A_CHG_PORT			
DOCNUMBER			
1310A24700-0-ALG			
REV			
D			

CHANGE by EDI\_CHEN DATE 23-APR-2012

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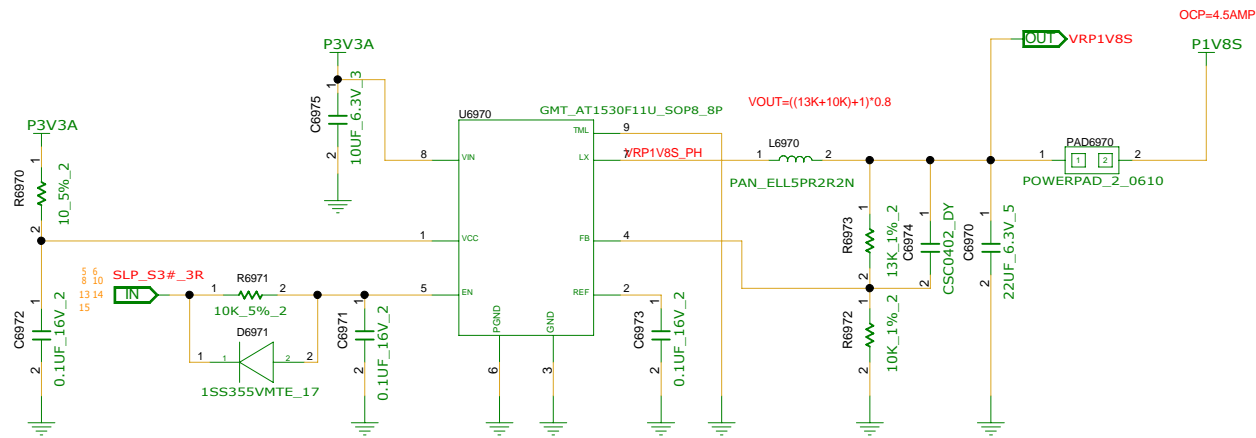




INVENTEC			
TITLE CLAVIN DIS SYSTEM POWER(P1V05_LAN_M)			
SIZE A3	CODE CS	DOCNUMBER 1310A24700-0-ALG	REV D
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INVENTEC

TITLE CLAVIN DIS  
SYSTEM POWER(P1V8S)

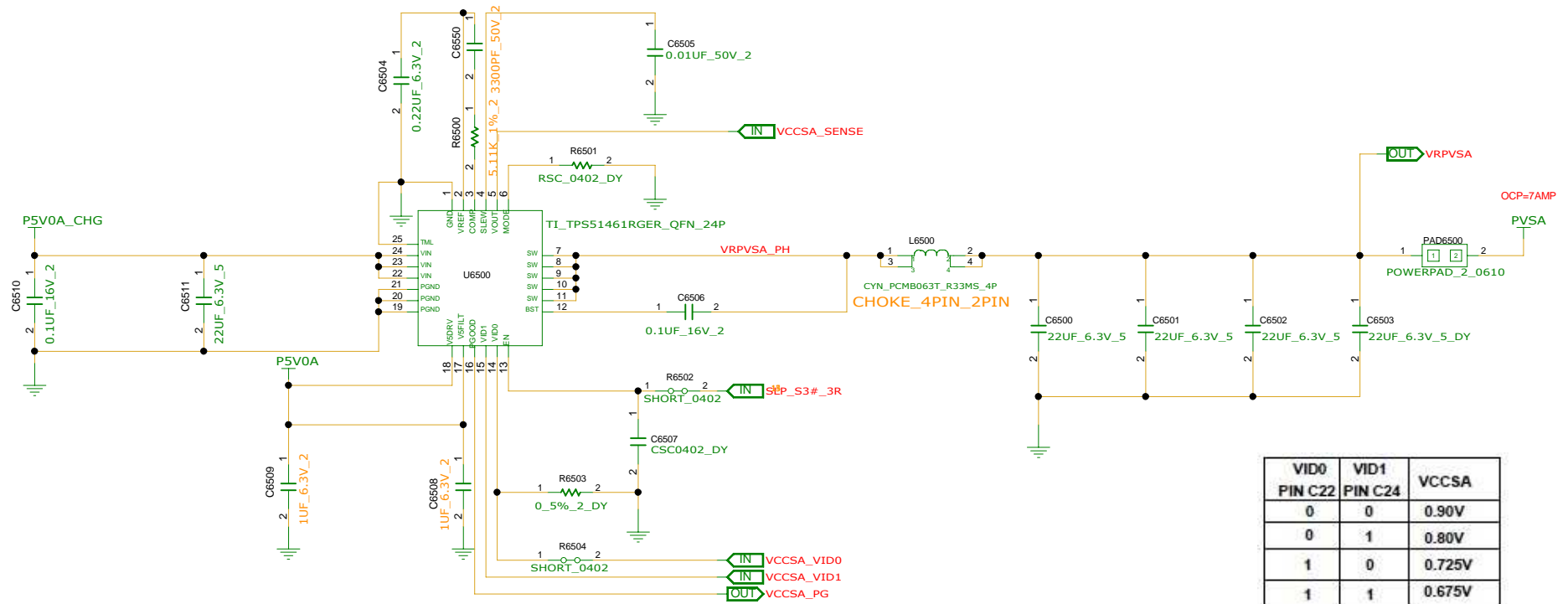
DOC NUMBER  
1310A24700-0-ALG

REV  
D

CHANGE by EDI CHEN

DATE 23-APR-2012

SHEET 12 of 73



INVENTEC

TITLE  
CLAVIN\_DIS  
SYSTEM\_POWER(PVSA)

DOCNUMBER  
1310A24700-0-ALG

REV  
D

CHANGE by EDI\_CHEN DATE 23-APR-2012

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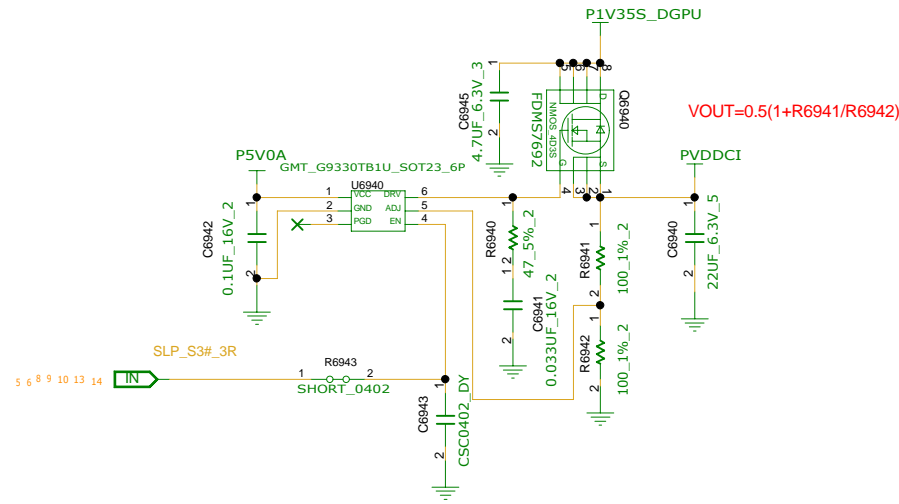


VOUT	SW1	SW0
1.10	0	0
1.00	0	1
0.90	1	0
0.85	1	1

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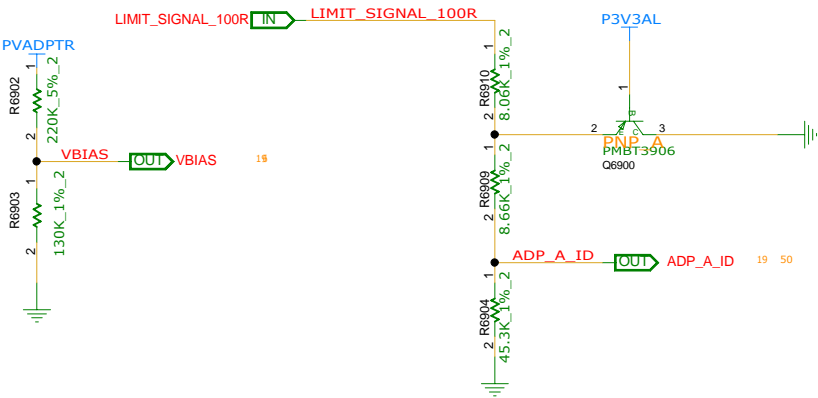


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INVENTEC			
TITLE			
CLAVIN DIS Block Diagram			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A24700-0-ALG	D
SHEET 18 of 73			

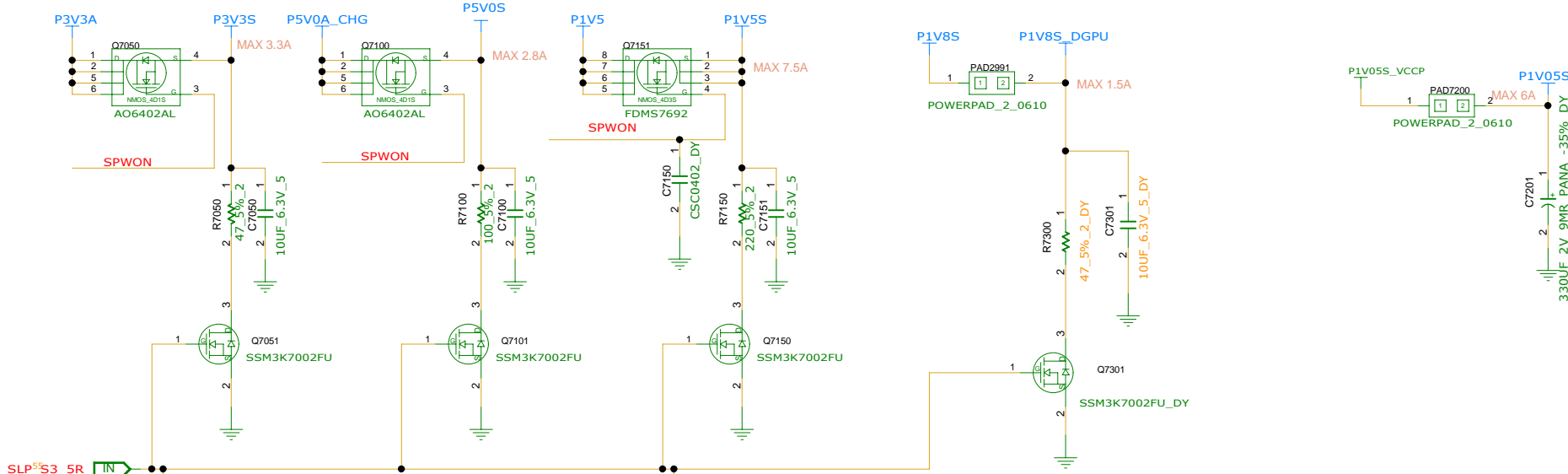
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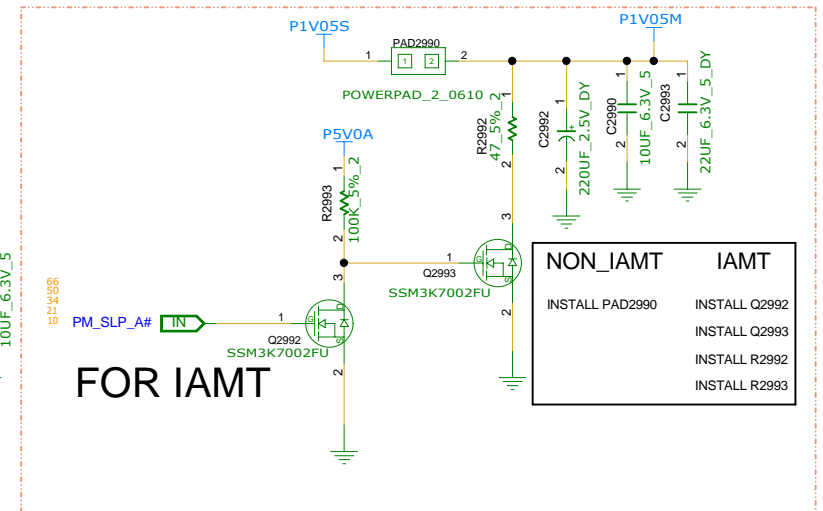
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TITLE CLAVIN_DIS HP_OCP			
SIZE A3	CODE CS	DOC NUMBER 1310A24700-0-ALG	REV D
SHEET 19 of 73			

REFERENCE NUMER : 7000~7350

FOR DGPU



REFERENCE NUMER : 2950~2999



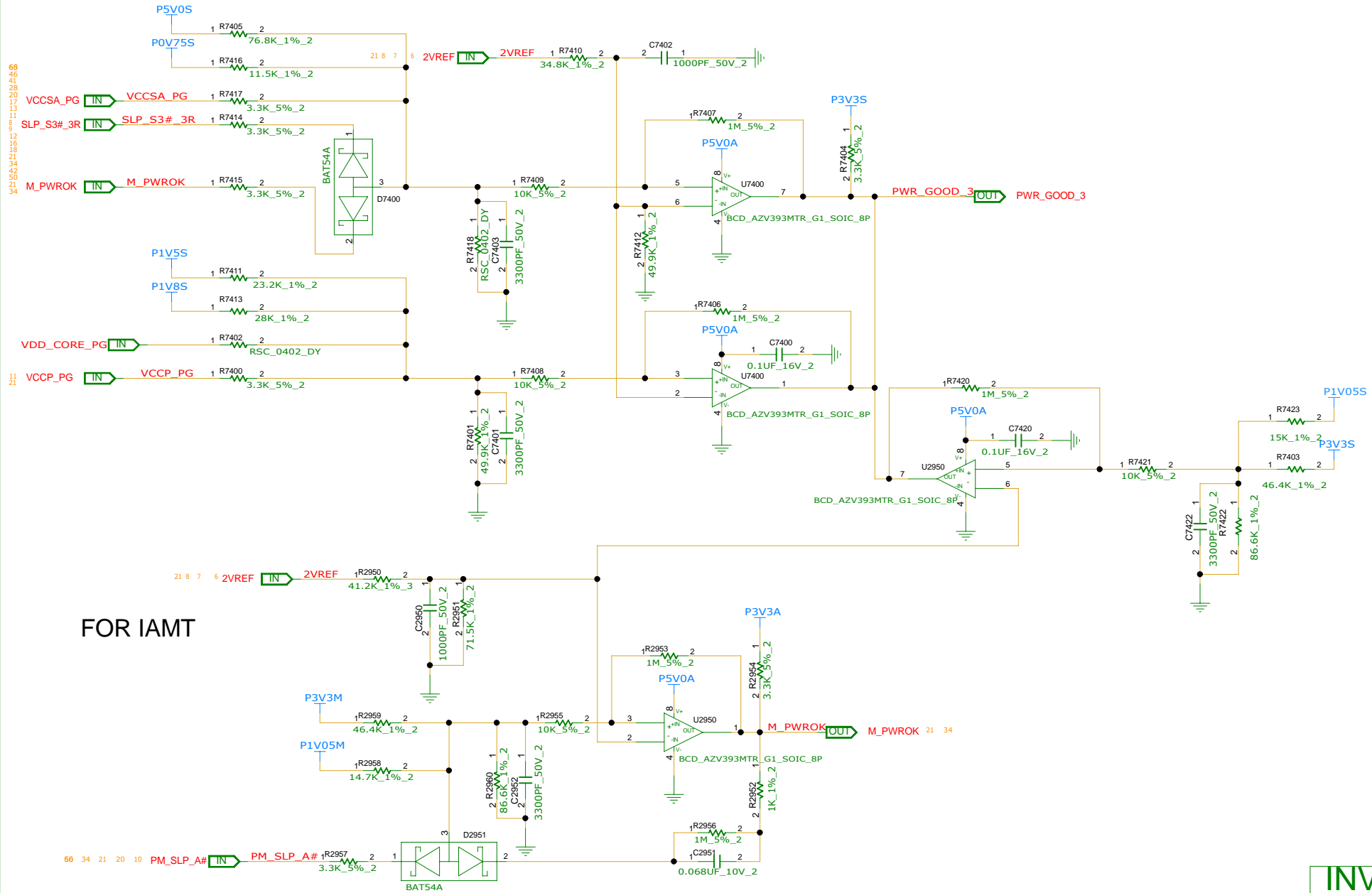
FOR IAMT

NON_IAMT	IAMT
INSTALL PAD2990	INSTALL Q2992
	INSTALL Q2993
	INSTALL R2992
	INSTALL R2993

INVENTEC

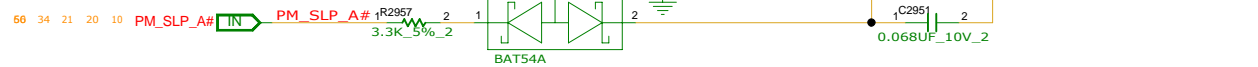
TITLE			
CLAVIN DIS POWER(SLEEP)			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A24700-0-ALG	D

REFERENCE NUMER : 7400~7450



FOR IAMT

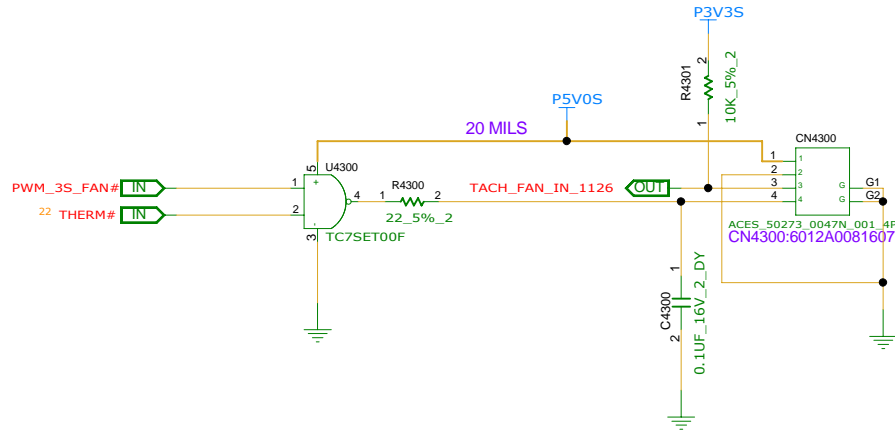
REFERENCE NUMER : 2950~2999



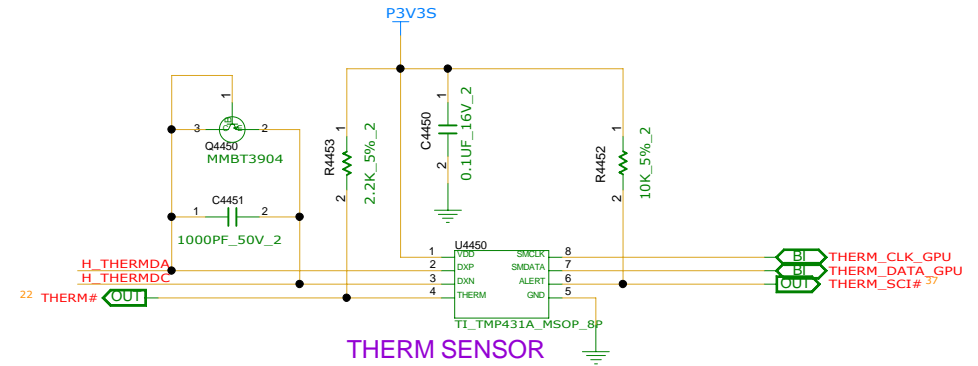
INVENTEC

TITLE			
CLAVIN DIS POWER(SEQUENCE)			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A24700-0-ALG	D
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REFERENCE NUMBER:4400~4349

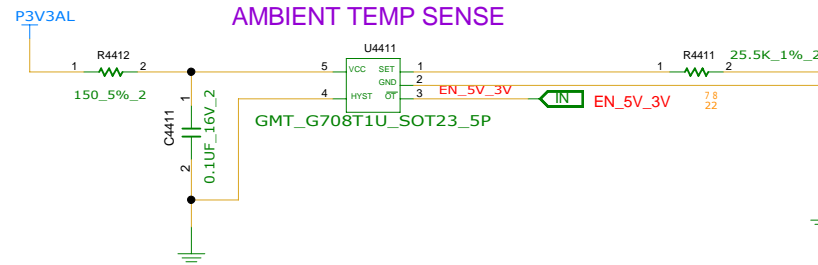


REFERENCE NUMBER:4450~4499



Fan speeds (RPM) :	2500	3300	3800	4300	5000	0	0	0
CPU temperature trip points :	45	57	68	80	91	0	0	0

AMBIENT TEMP SENSE



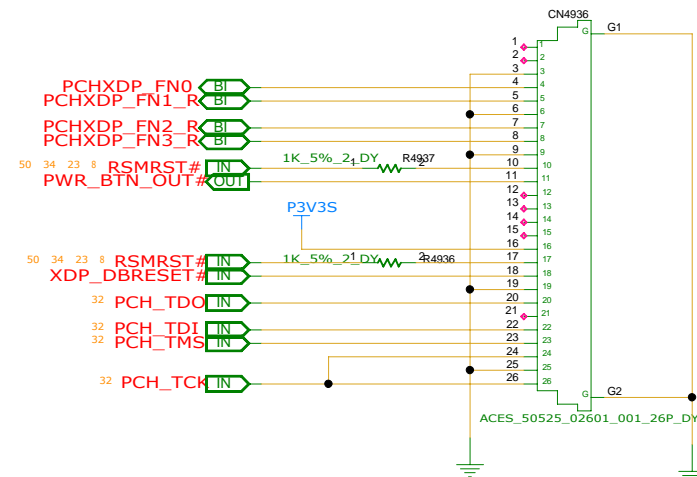
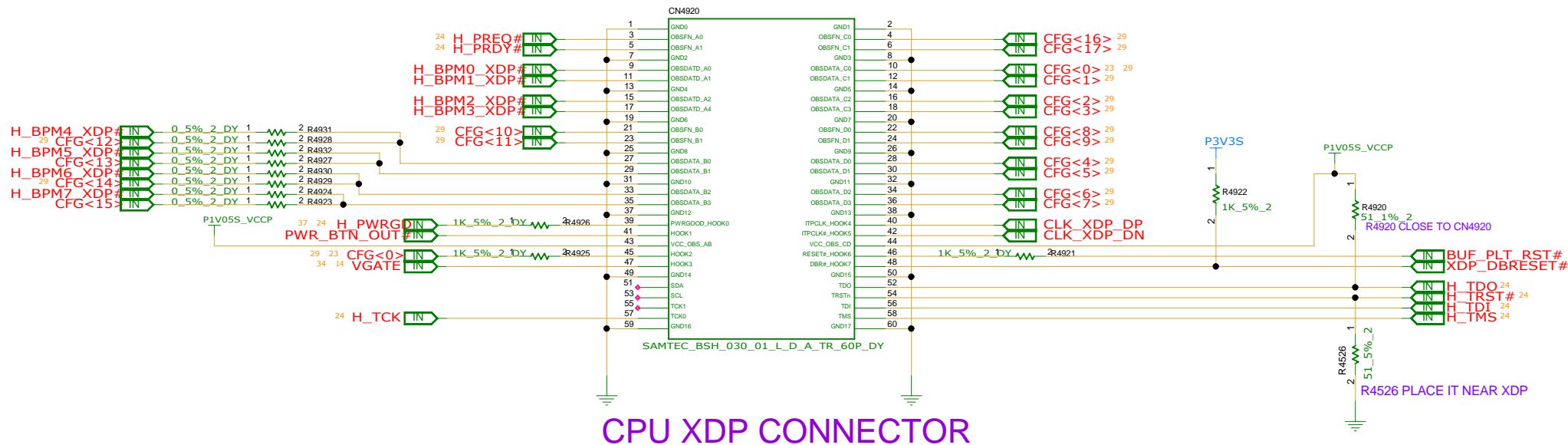
RSET (K OHM) = 0.0012T^2 - 0.9308T + 96.147  
THERMAL SHUTDOWN AT 77 DEG. FOR B SERIES

REFERENCE NUMBER:4411~4449

INVENTEC

TITLE			
CLAVIN DIS FAN & THERMAL			
SIZE A3	CODE CS	DOC NUMBER 1310A24700-0-ALG	REV D
SHEET 22 of 73			

CHANGE by EDI CHEN DATE 23-APR-2012



INVENTEC				
TITLE				
CLAVIN DIS XDP CONN				
SIZE A3	CODE CS	DOC NUMBER 1310A24700-0-ALG		REV D
SHEET 23 of 73				



REFERENCE NUMBER:4500~4699

D

C

B

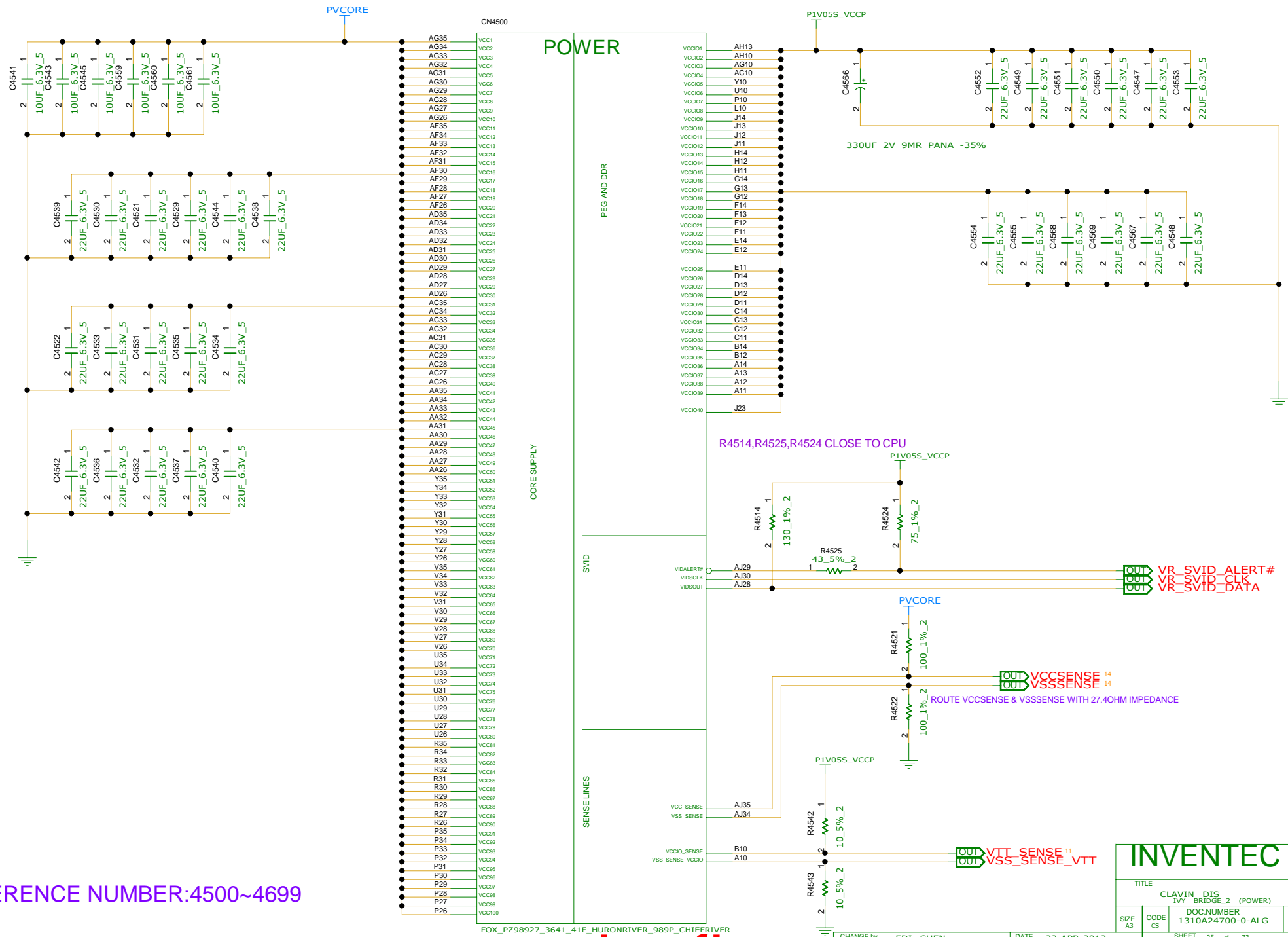
A

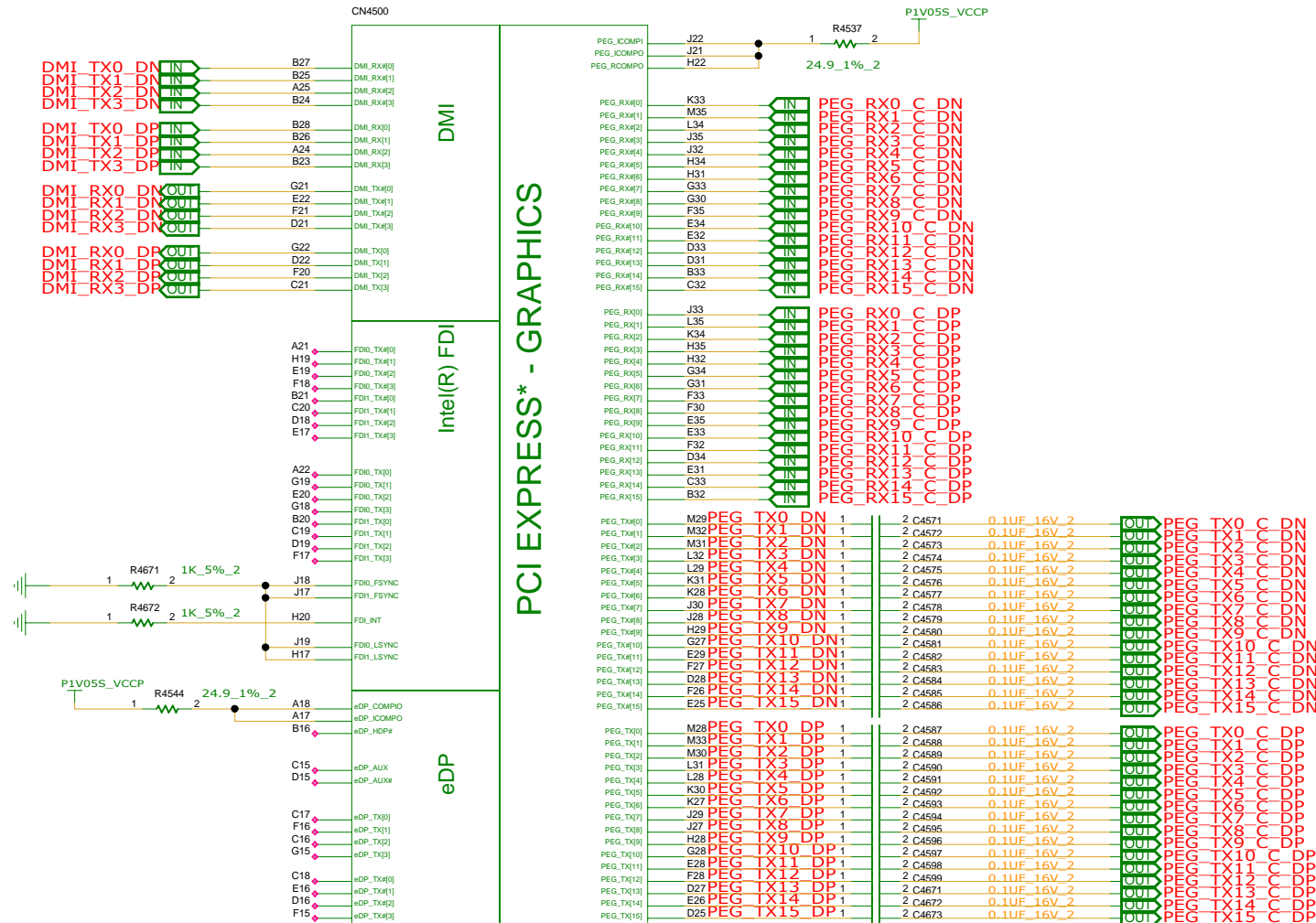
D

C

B

A





FOX\_PZ98927\_3641\_41F\_HURONRIVER\_989P\_CHIEFRIVER

ALL CLOSED TO CPU

REFERENCE NUMBER:4500~4699

INVENTEC

TITLE  
CLAVIN\_DJS  
IVY BRIDGE\_3 (DMI,DP,PEG,FDI)

SIZE A3 CODE CS DOC NUMBER 1310A24700-0-ALG REV D

CHANGE by EDI\_CHEN

DATE 23-APR-2012

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D

C

B

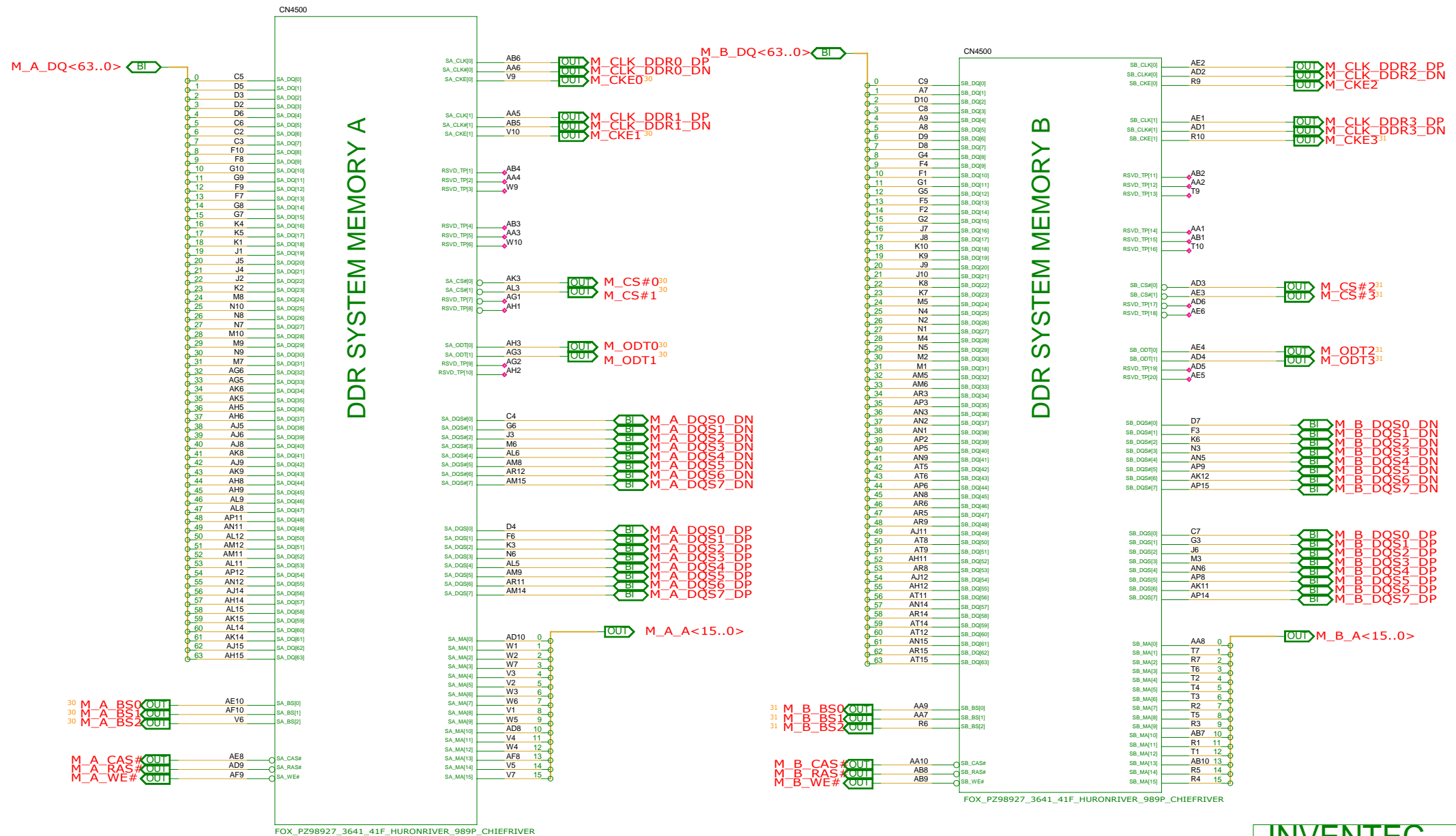
A

D

C

B

A



REFERENCE NUMBER:4500~4699

INVENTEC

TITLE			
CLAVIN_DIS IVY BRIDGE 4 (DDR3)			
SIZE		CODE	REV
A3	CS	1310A24700-0-ALG	D
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CHANGE by EDI CHEN DATE 23-APR-2012

www.vinafix.vn





INVENTEC			
TITLE			
CLAVIN DIS IVY BRIDGE_6 (GND,RESERVED)			
SIZE A3	CODE CS	DOC NUMBER 1310A24700-0-ALG	REV D
SHEET 29 of 73			
1			

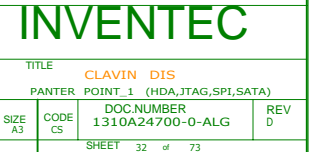




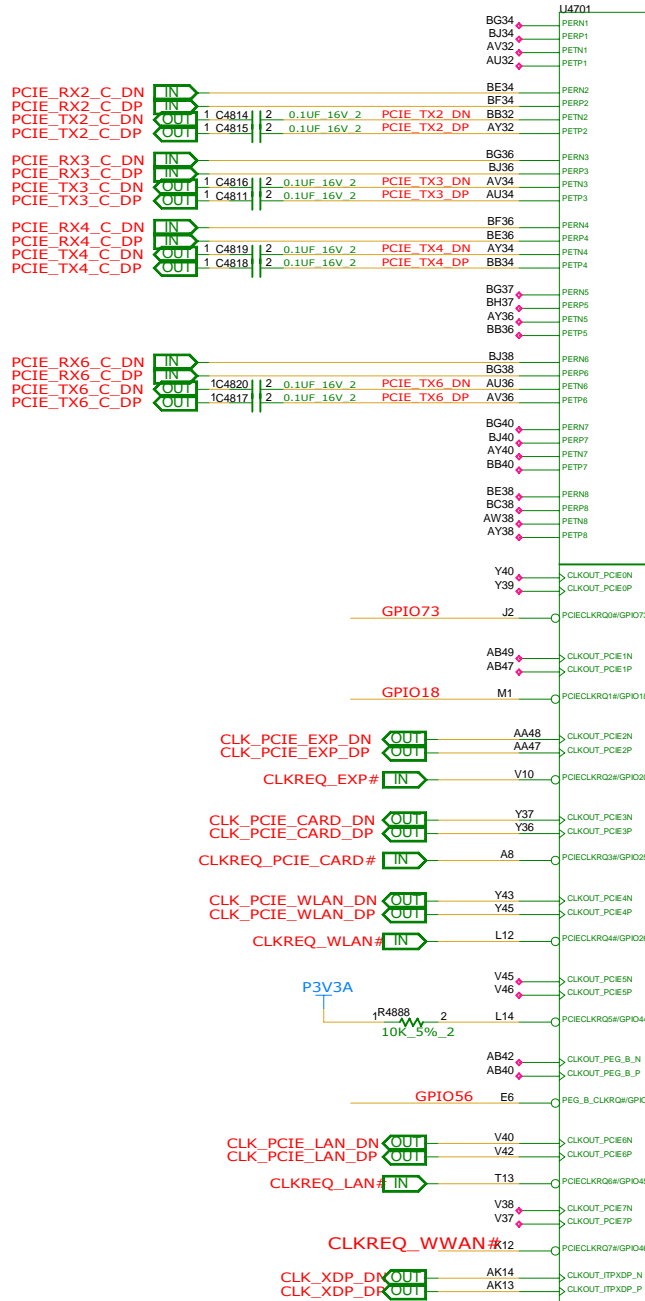
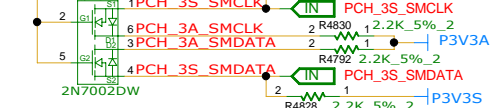
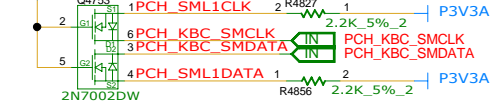
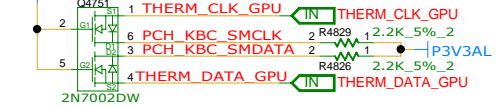
REFERENCE NUMBER:4100~4299

INVENTEC			
TITLE			
CLAVIN DIS DDR3_SO-DIMM1			
SIZE A3	CODE CS	DOC NUMBER 1310A24700-0-ALG	REV D
SHEET		31 of 73	

LAYOUT NOTE: JTAG\_TMS TERMINATIONS NEED TO BE PLACED NEAR PCH  
LAYOUT NOTE: JTAG\_TDI TERMINATIONS NEED TO BE PLACED NEAR PCH  
LAYOUT NOTE: JTAG\_TDO TERMINATIONS NEED TO BE PLACED NEAR XDP



P3V3S



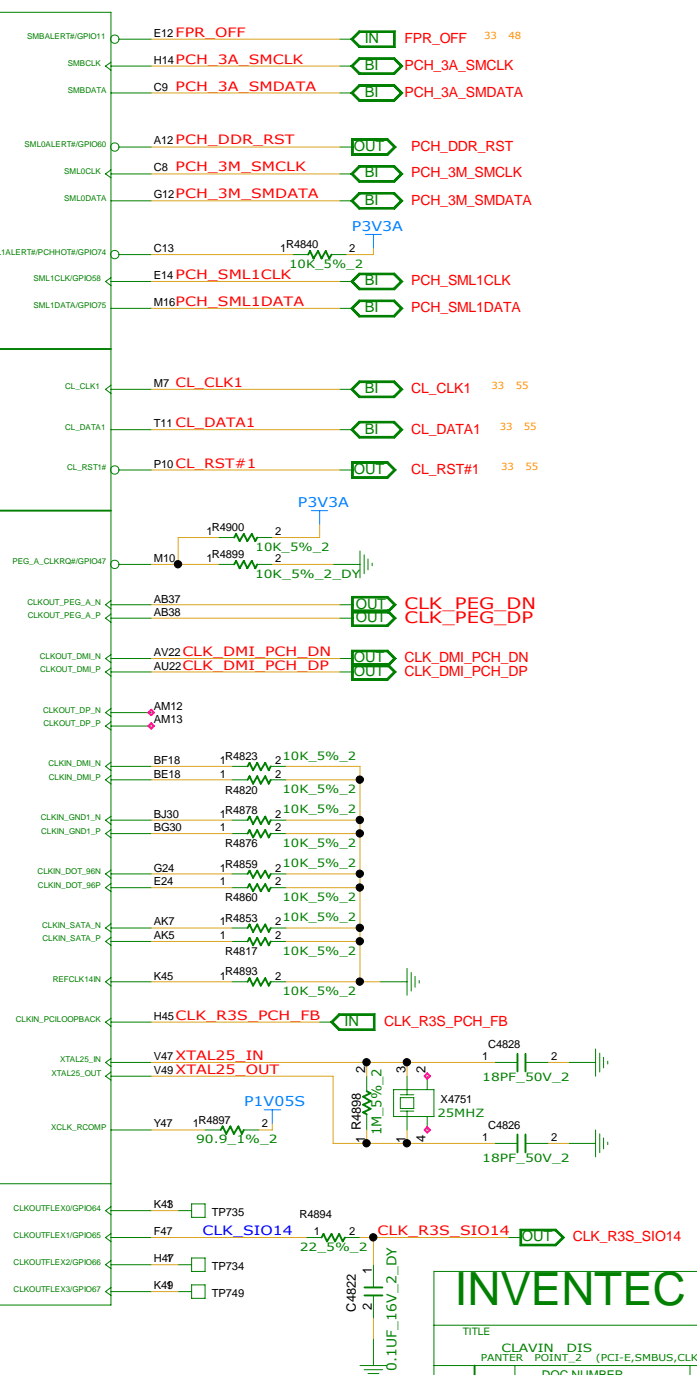
PCI-E\*

## CLOCKS

SMBS

Controller  
Link

## FLEX CLOCKS



# INVENTEC

TITLE			
CLAVIN DIS PANTER POINT_2 (PCI-E,SMBUS,CLK)			
SIZE A3	CODE CS	DOC.NUMBER 1310A24700-0-ALG	REV D
SHEET 22 of 22			

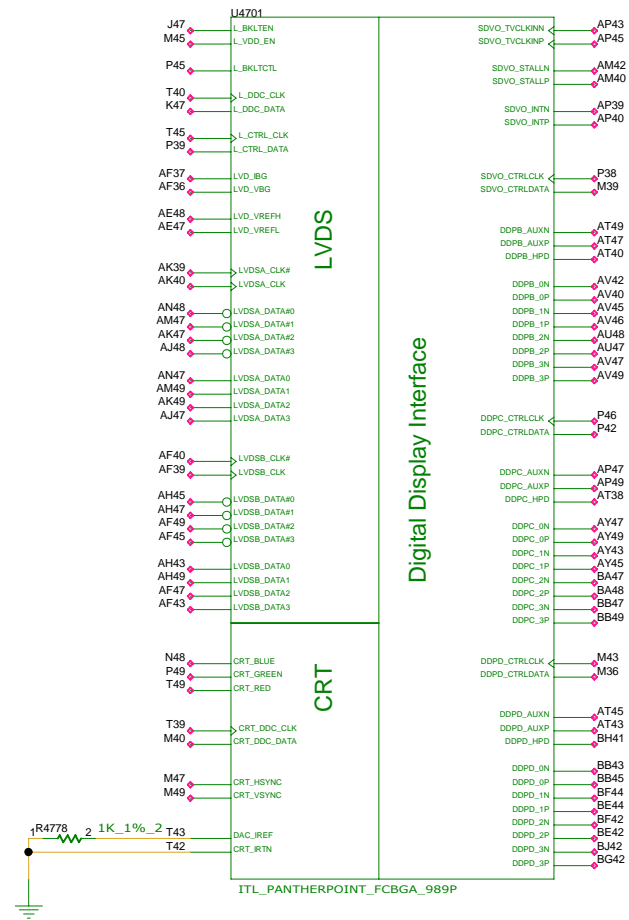
### 3.PCH\_DPWROK PULL UP TO +V3S ENABLES DSW WUPPORT. NO INSTALL R5261 TO DISABLE DSW

R4718	INSTALL	UNINSTALL
R4723	INSTALL	UNINSTALL
R4719	UNINSTALL	INSTALL
R4722	UNINSTALL	INSTALL



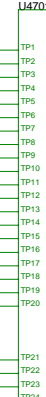
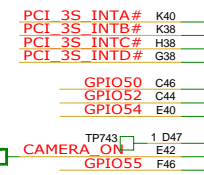
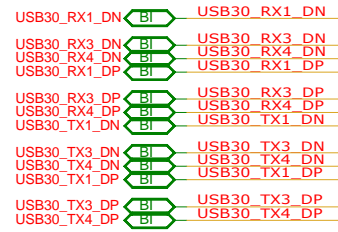
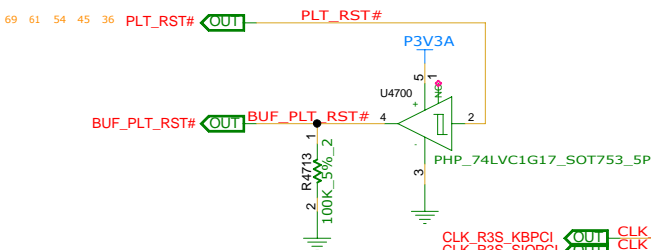
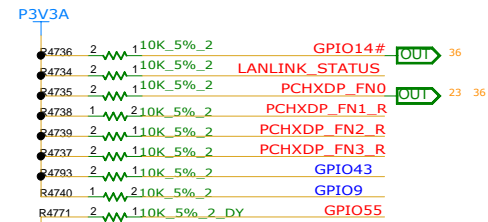
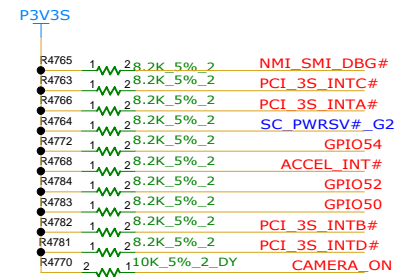
TITLE			
CLAVIN DIS PANTER POINT_3 (DMI,FDI,GPIO)			
SIZE A3	CODE CS	DOC.NUMBER 1310A24700-0-ALG	RE D

REFERENCE NUMER : 4700~4949



INVENTEC			
TITLE			
CLAVIN DIS PANTHER POINT_4 (LVDS,DDI)			
SIZE A3	CODE CS	DOCNUMBER 1310A24700-0-ALG	REV D
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REFERENCE NUMER : 4700~4949



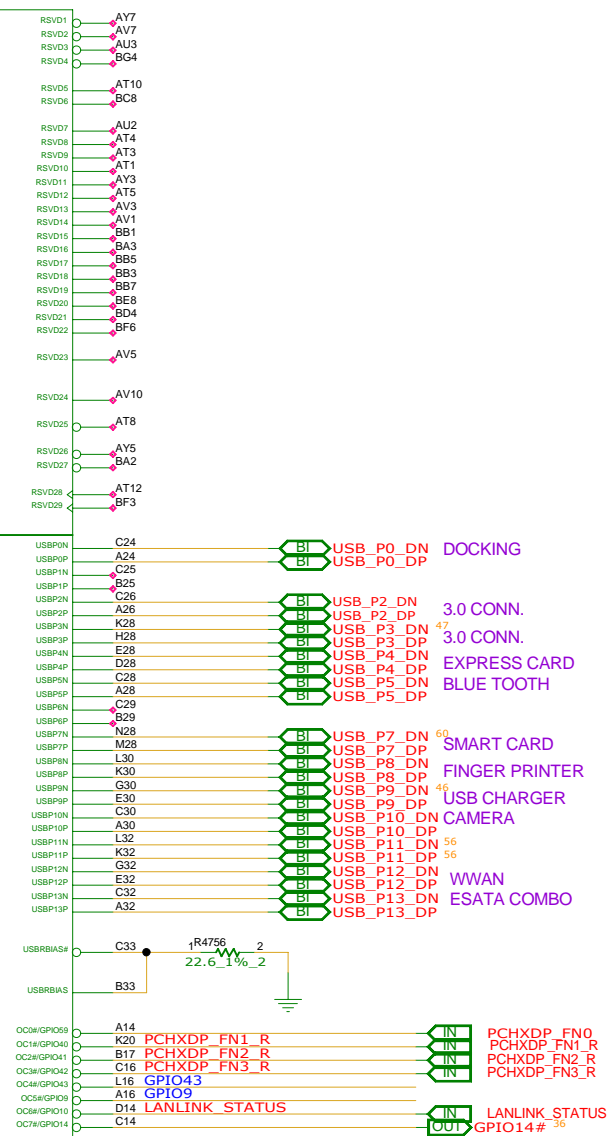
RSVD

PCI

ITL\_PANTHERPOINT\_FCBGA\_989P

NVRAM

USB



INVENTEC

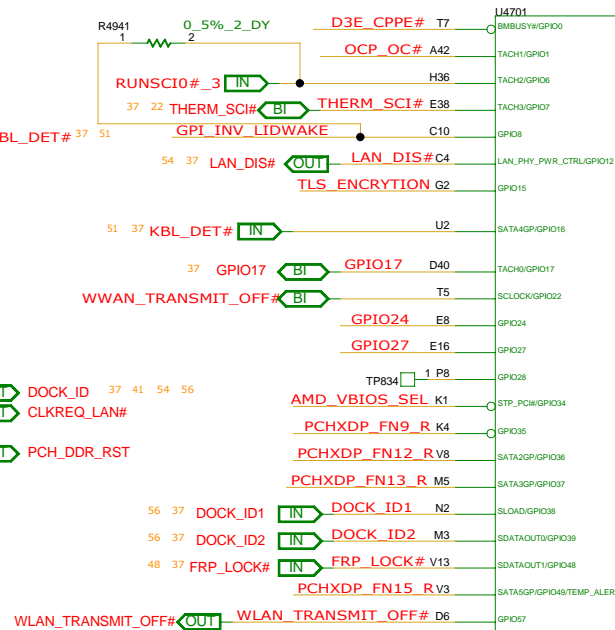
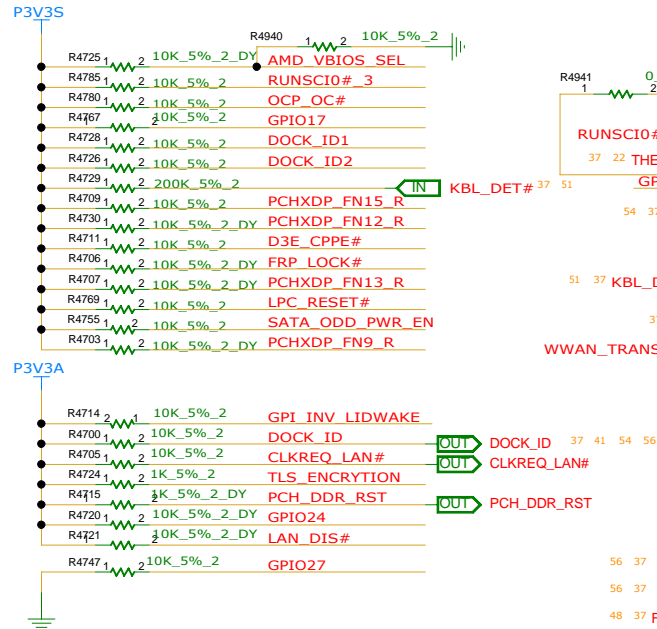
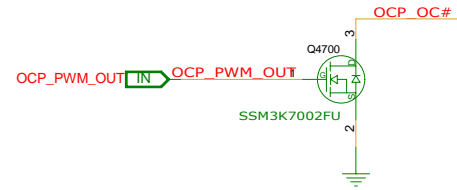
TITLE			
CLAVIN_DIS PANTHER POINT_5 (PCI,USB,NVRAM)			
DOC NUMBER 1310A24700-0-ALG			
SIZE A3	CODE CS	REV D	

CHANGE by EDI\_CHEN DATE 23-APR-2012

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## REFERENCE NUMER : 4700~4949

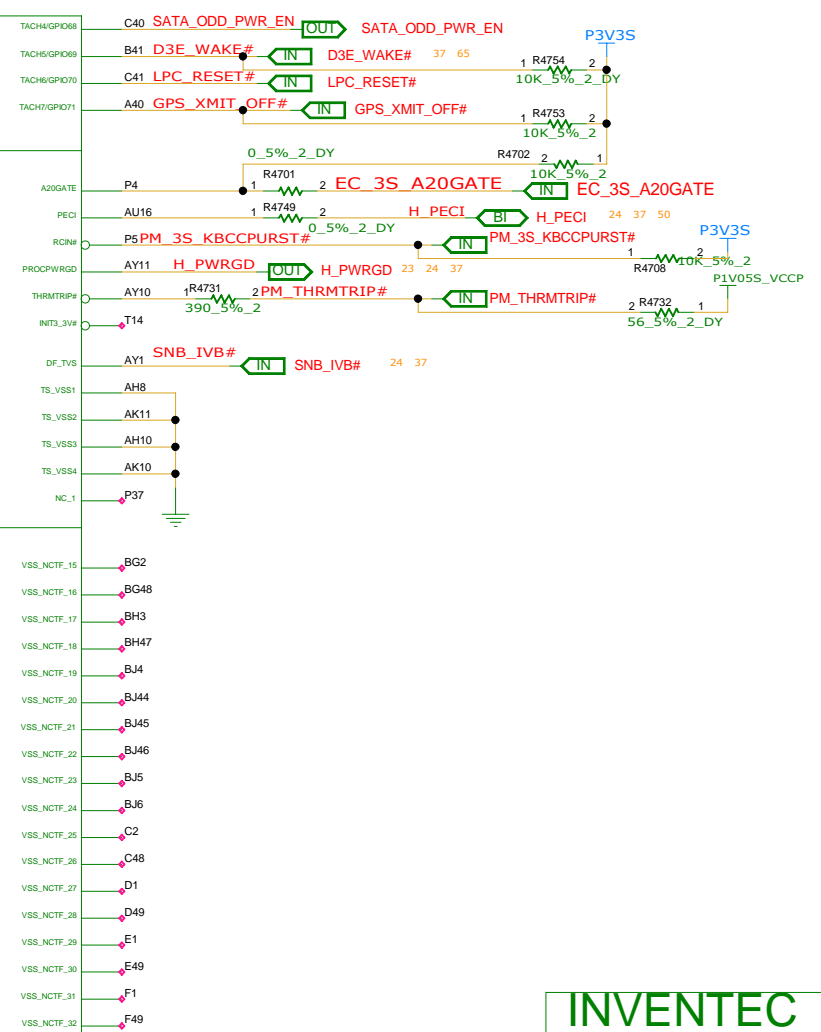
Hynix	install	un-install
New die	R4725	R4940
Old Die	R4940	R4725



GPIO

CPU/MISC

NCTF



INVENTEC

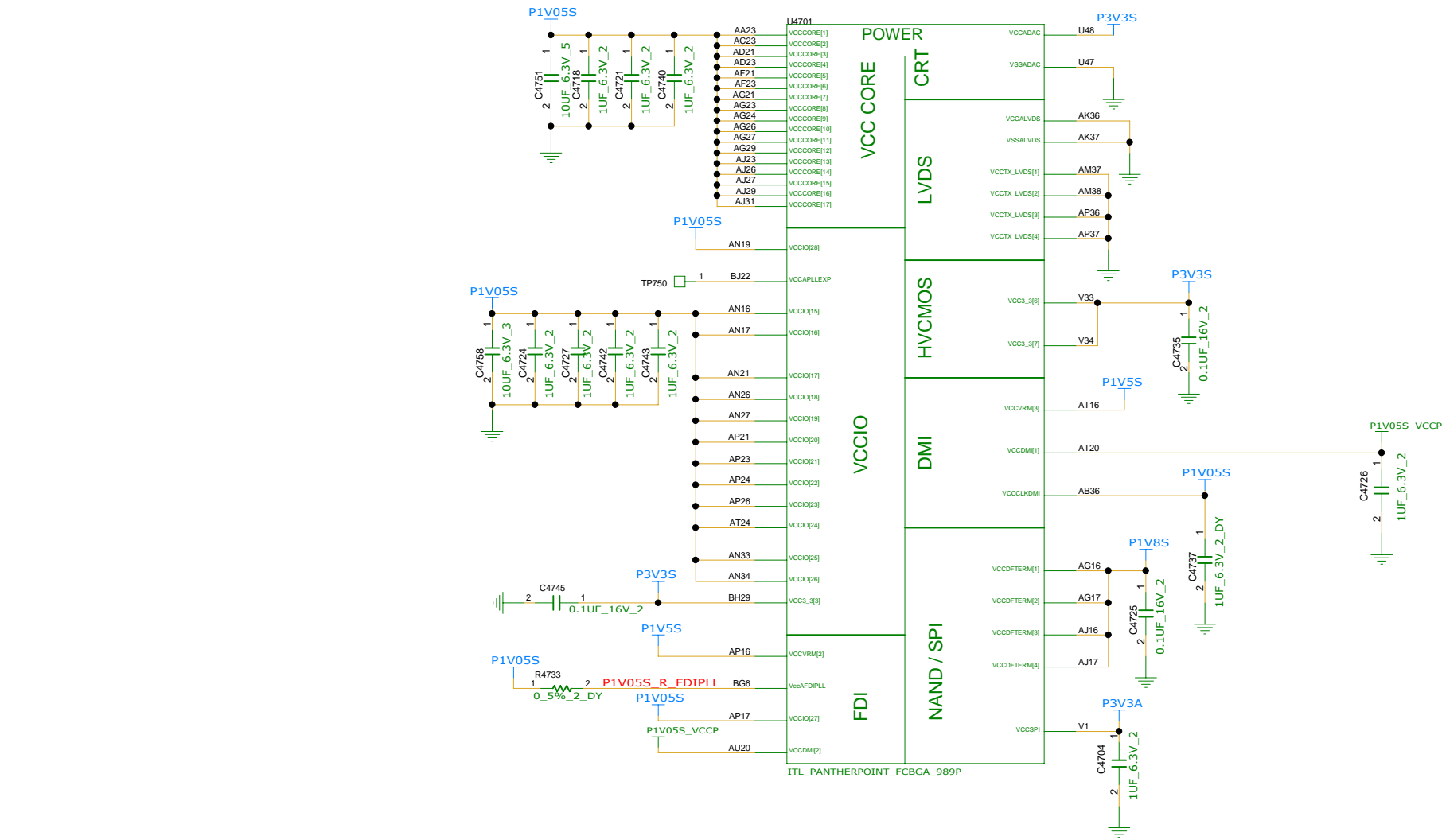
TITLE	CLAVIN DIS
PANTER	POINT_6 (GPIO,VSS_NCTF,RSVD)
DOC NUMBER	1310A24700-0-ALG
REV D	

CHANGE by EDI CHEN

DATE 23-APR-2012

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REFERENCE NUMER : 4700~4949



INVENTEC			
TITLE			
CLAVIN DIS PANTHER POINT_7 (POWER)			
SIZE A3	CODE CS	DOCNUMBER 1310A24700-0-ALG	REV D
SHEET 38 of 73			

8

7

6

5

4



C

3

A

TITLE			
CLAVIN DIS PANTER POINT_8 (POWER)			
SIZE	CODE	DOC.NUMBER	
		1310A24700-0-ALG	

CHANGE by	EDI CHEN	DATE	23-APR-2012
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1

1

7

6

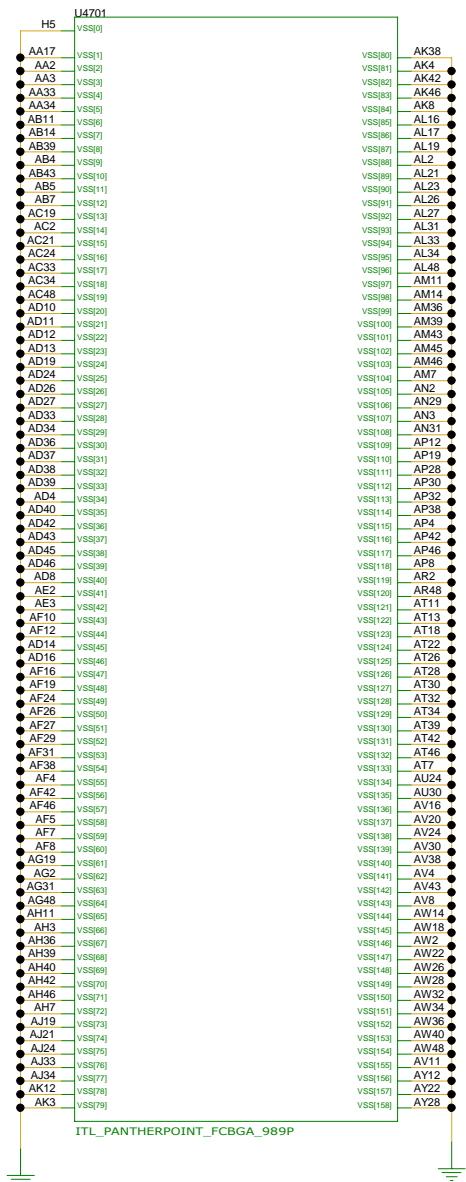
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1

2

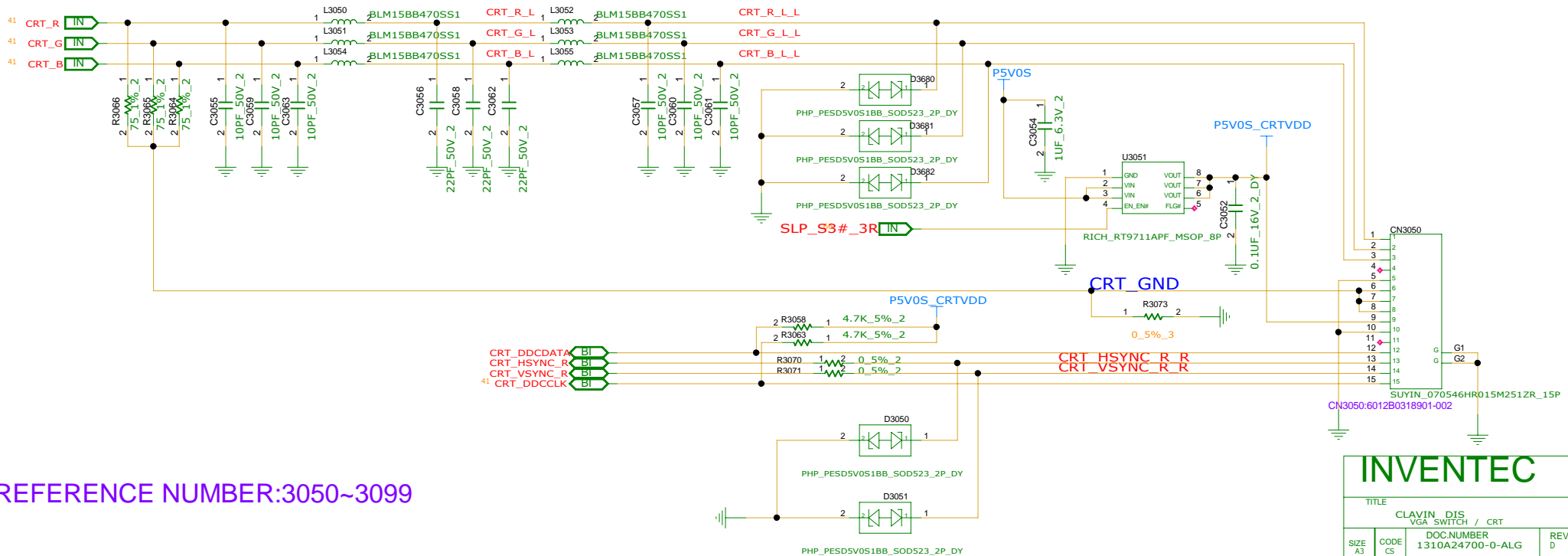
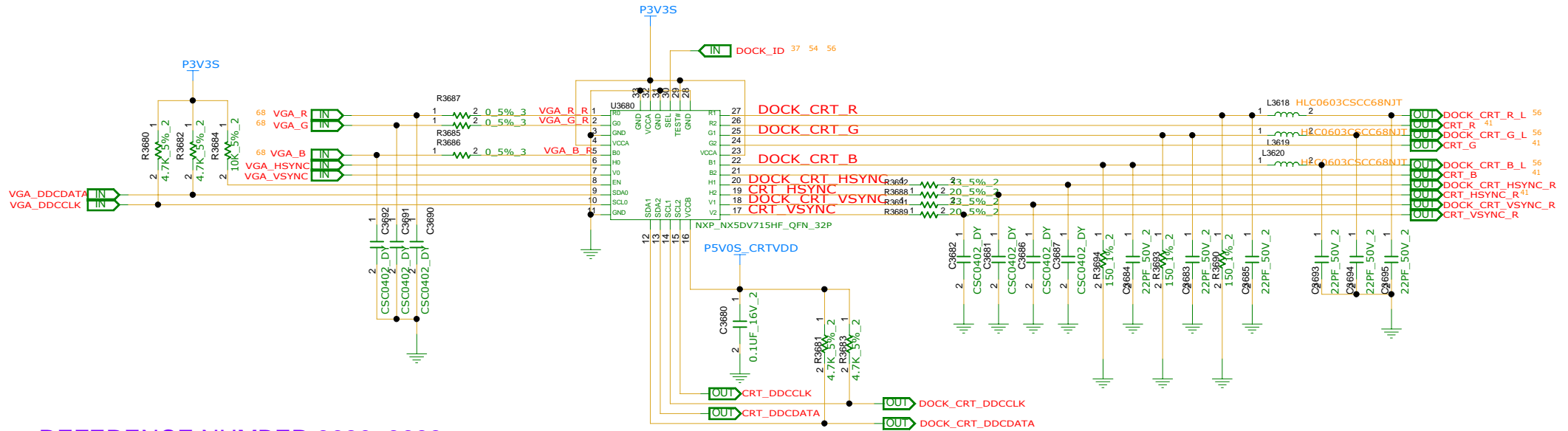
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REFERENCE NUMBER : 4700~4949



INVENTEC

TITLE			
CLAVIN DIS PANTER POINT 9 (GND)			
DOC NUMBER 1310A24700-0-ALG			
SIZE A3	CODE CS	REV D	





TITLE			
CLAVIN DIS DISPLAY PORT CNTR			
SIZE A3	CODE CS	DOC.NUMBER 1310A24700-0-ALG	



C

B

A

TITLE		
CLAVIN DIS LCM & WEBCAM		
SIZE A3	CODE CS	DOC.NUMBER 1310A24700-0-ALG

DATE 23-APR-2012

SHEET 43 of 73

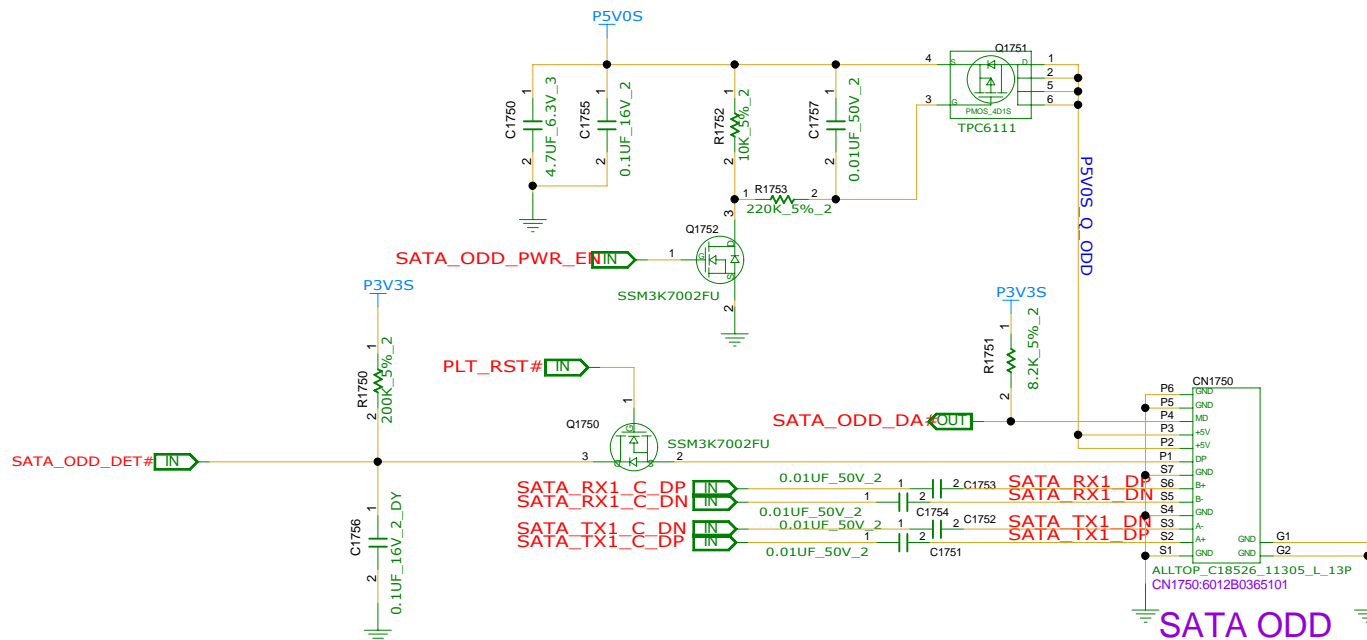
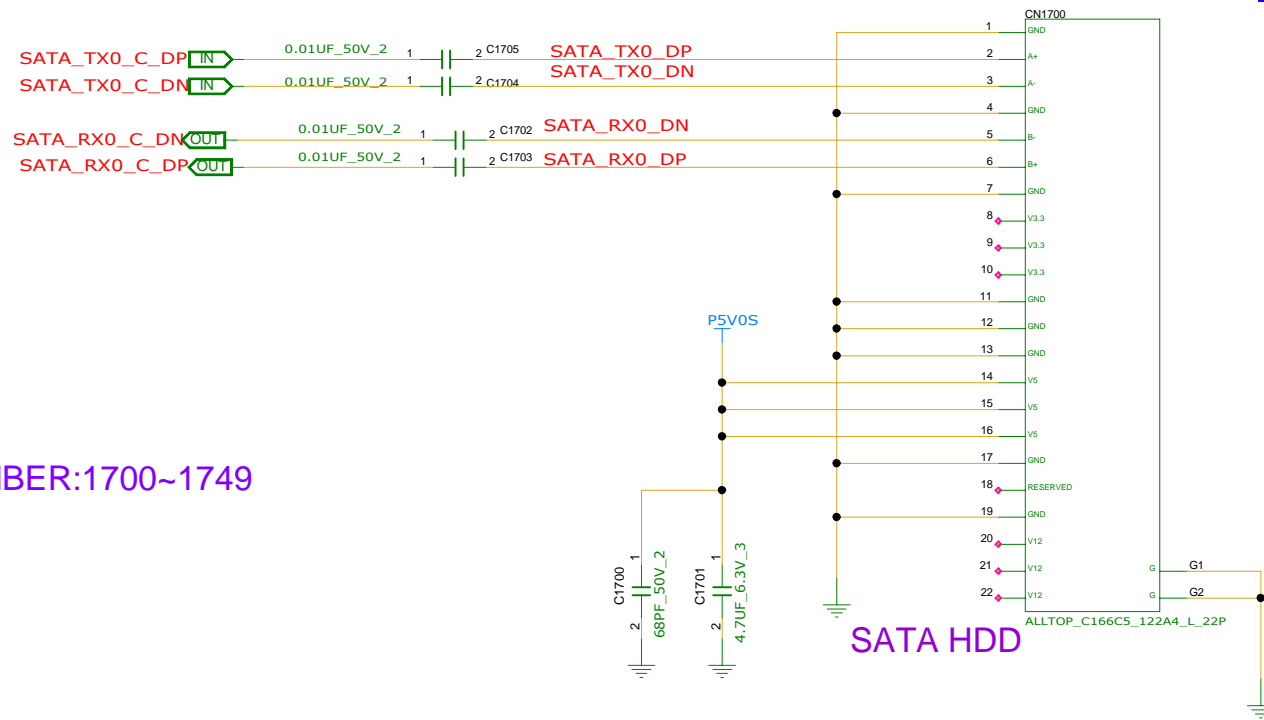
BLANK

REFERENCE NUMBER:3400~3499

INVENTEC			
TITLE CLAVIN DIS EDP TO LVDS			
SIZE A3	CODE CS	DOC NUMBER 1310A24700-0-ALG	REV D

CHANGE by EDT CHEN	DATE 23-APR-2012	SHEET 44 of 73
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REFERENCE NUMBER:1700~1749



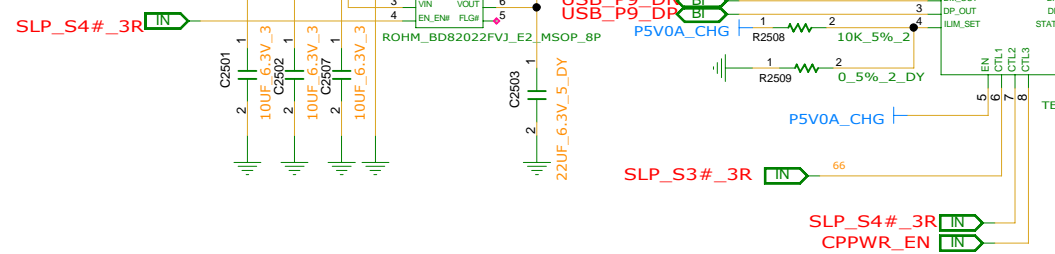
REFERENCE NUMBER:1750~1799

INVENTEC

TITLE			
CLAVIN DIS SATA HDD & ODD CNTR			
SIZE A3	CODE CS	DOC NUMBER 1310A24700-0-ALG	REV D

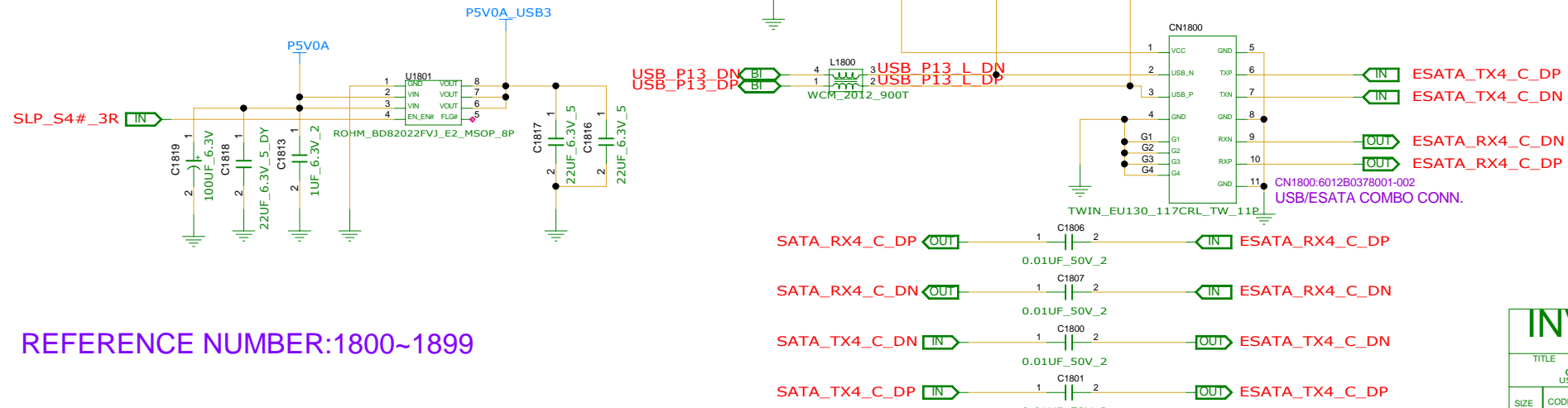
CHANGE by EDI CHEN DATE 23-APR-2012

SHEET 45 of 73



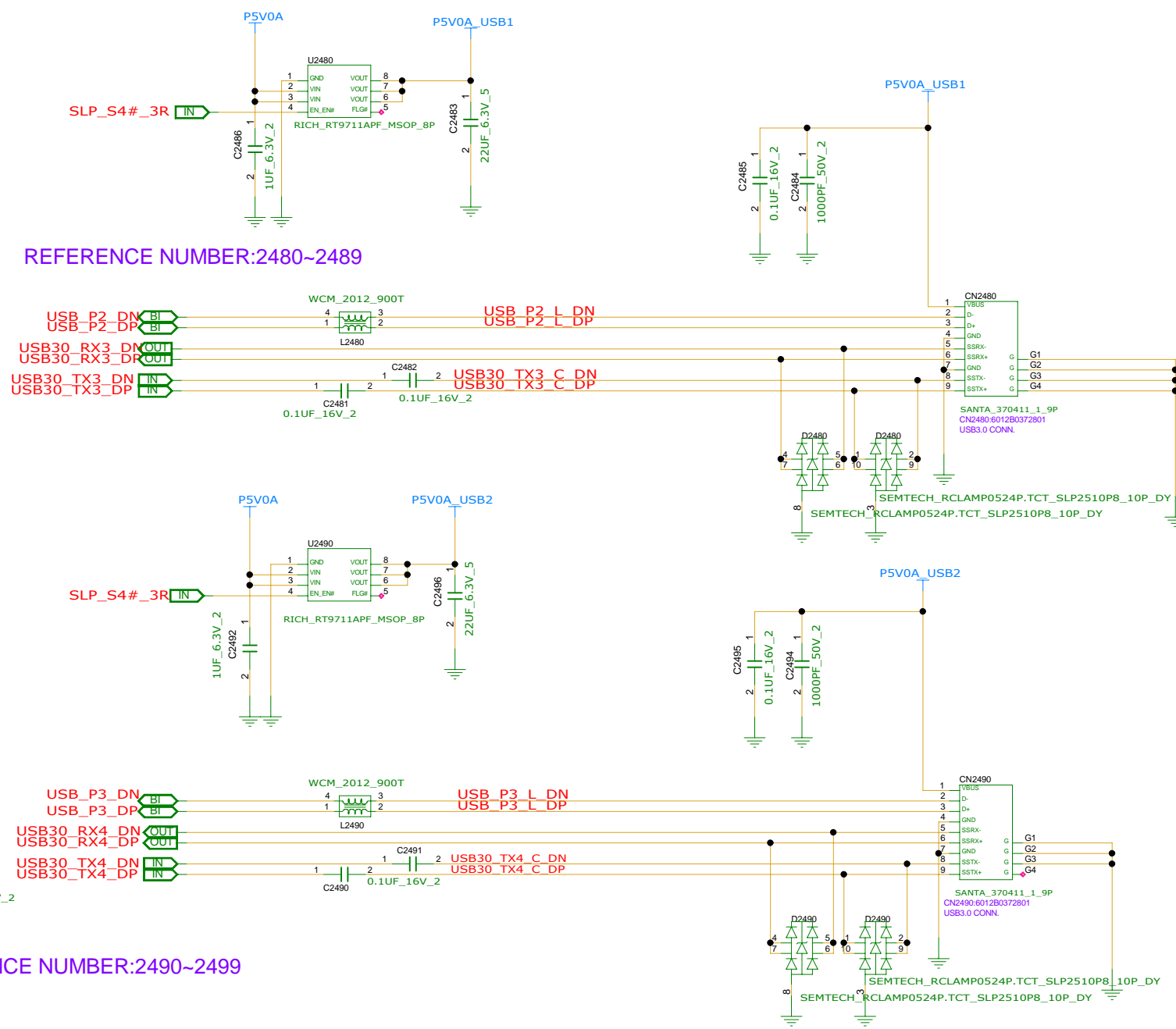
TPS2543	20K	10K	NI	0	NI
TPS2540/A	NI	NI	0	0	NI
PI5USB2543	NI	NI	0	NI	0

REFERENCE NUMBER:2500~2599



REFERENCE NUMBER:1800~1899

INVENTEC			
TITLE			
CLAVIN DIS USB & ESATA COMBO / USB CHARGER			
SIZE A3	CODE CS	DOC NUMBER 1310A24700-0-ALG	REV D
SHEET 46 of 73			

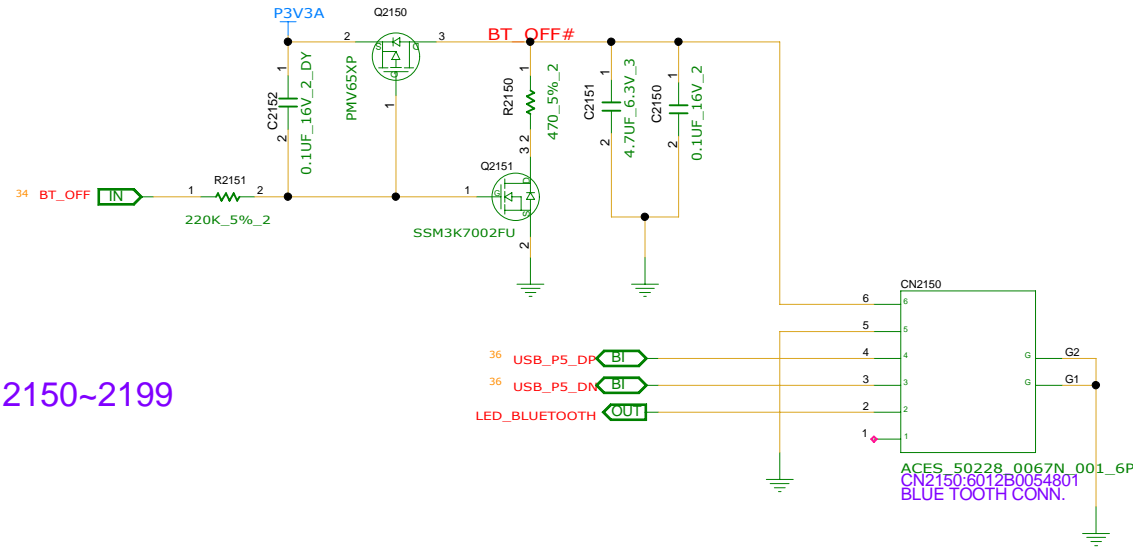


REFERENCE NUMBER:2480~2489

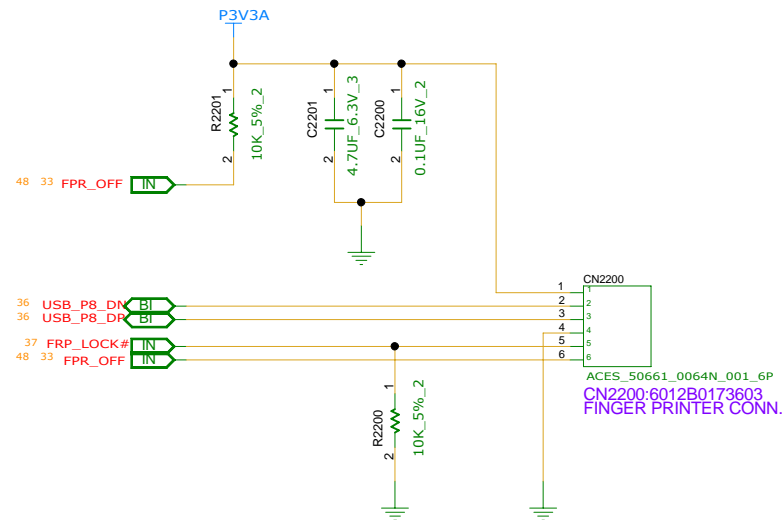
REFERENCE NUMBER:2490~2499

INVENTEC			
TITLE CLAVIN_DIS USB_CONN			
SIZE A3	CODE CS	DOC NUMBER 1310A24700-0-ALG	REV D
SHEET 47 of 73			

REFERENCE:2150~2199



REFERENCE:2200~2249



INVENTEC

TITLE			
CLAVIN DIS			
BLUE TOOTH & FINGER PRINTER CNTR			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A24700-0-ALG	D

CHANGE by: EDI, CHEN DATE: 23-APR-2012

SHEET 48 of 73

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REFERENCE NUMBER : 300~399

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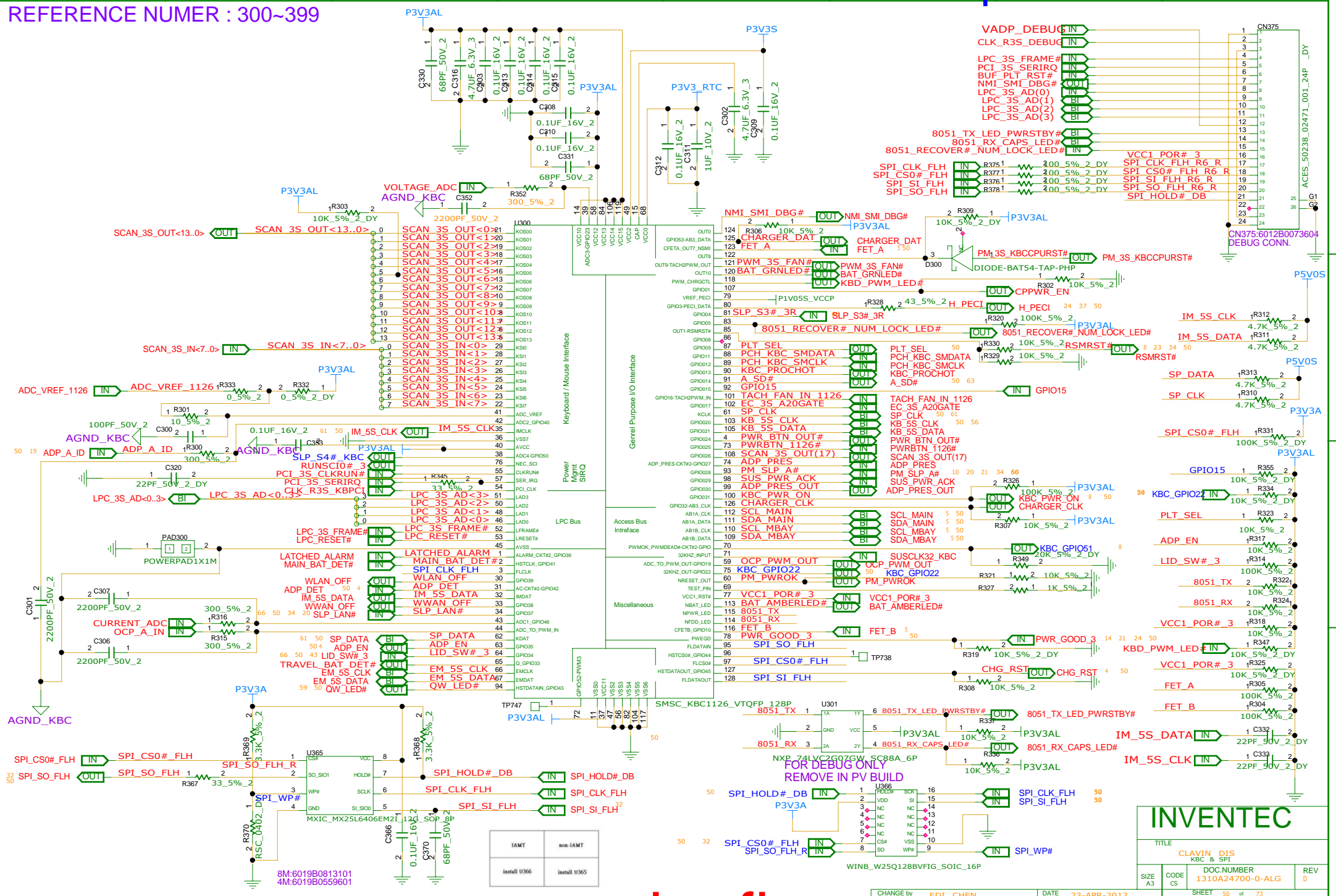
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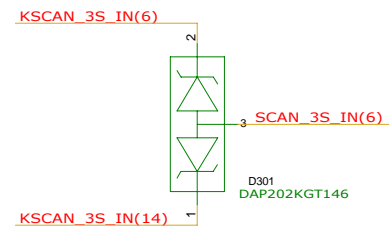
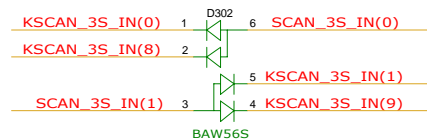
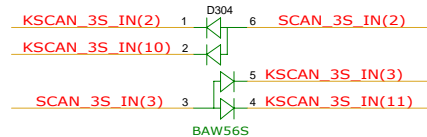
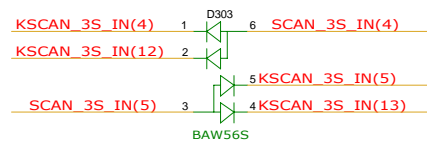
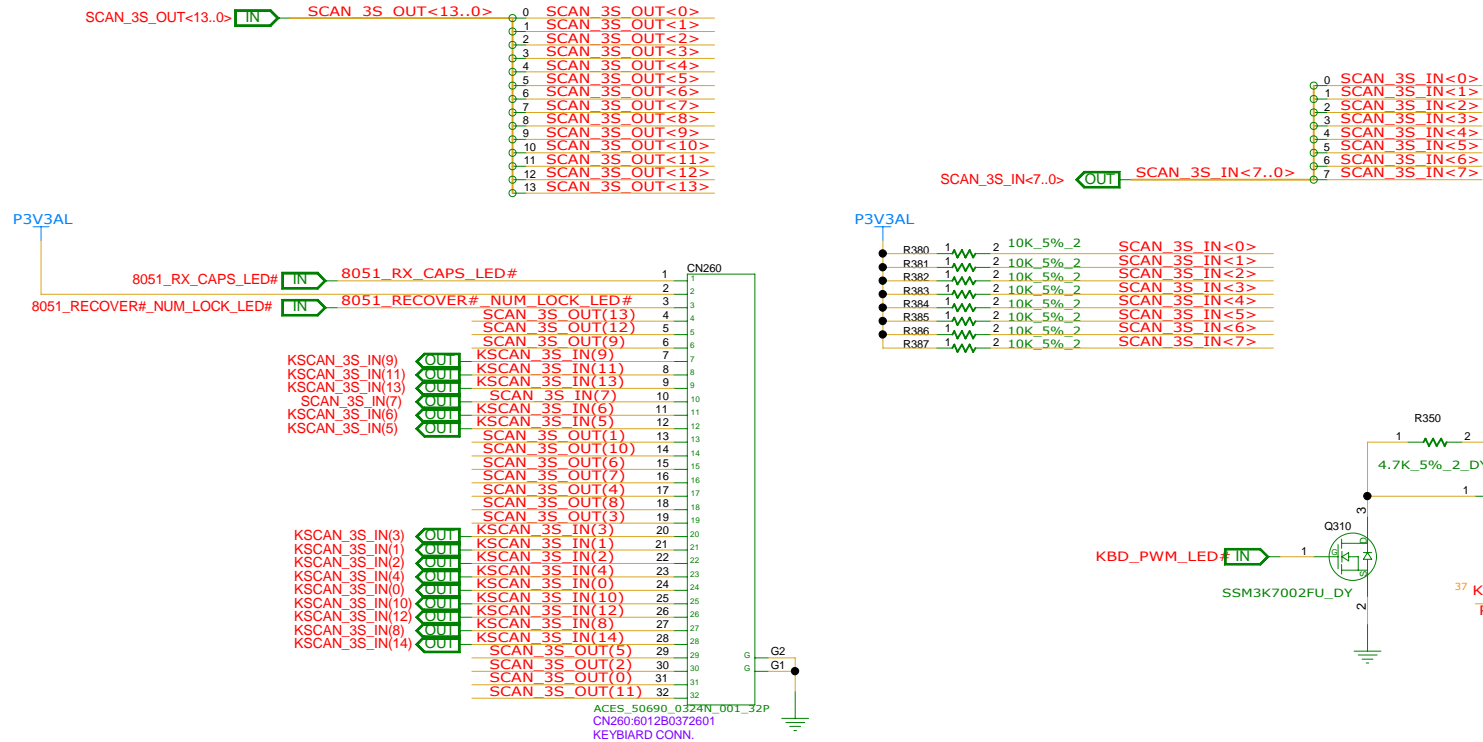
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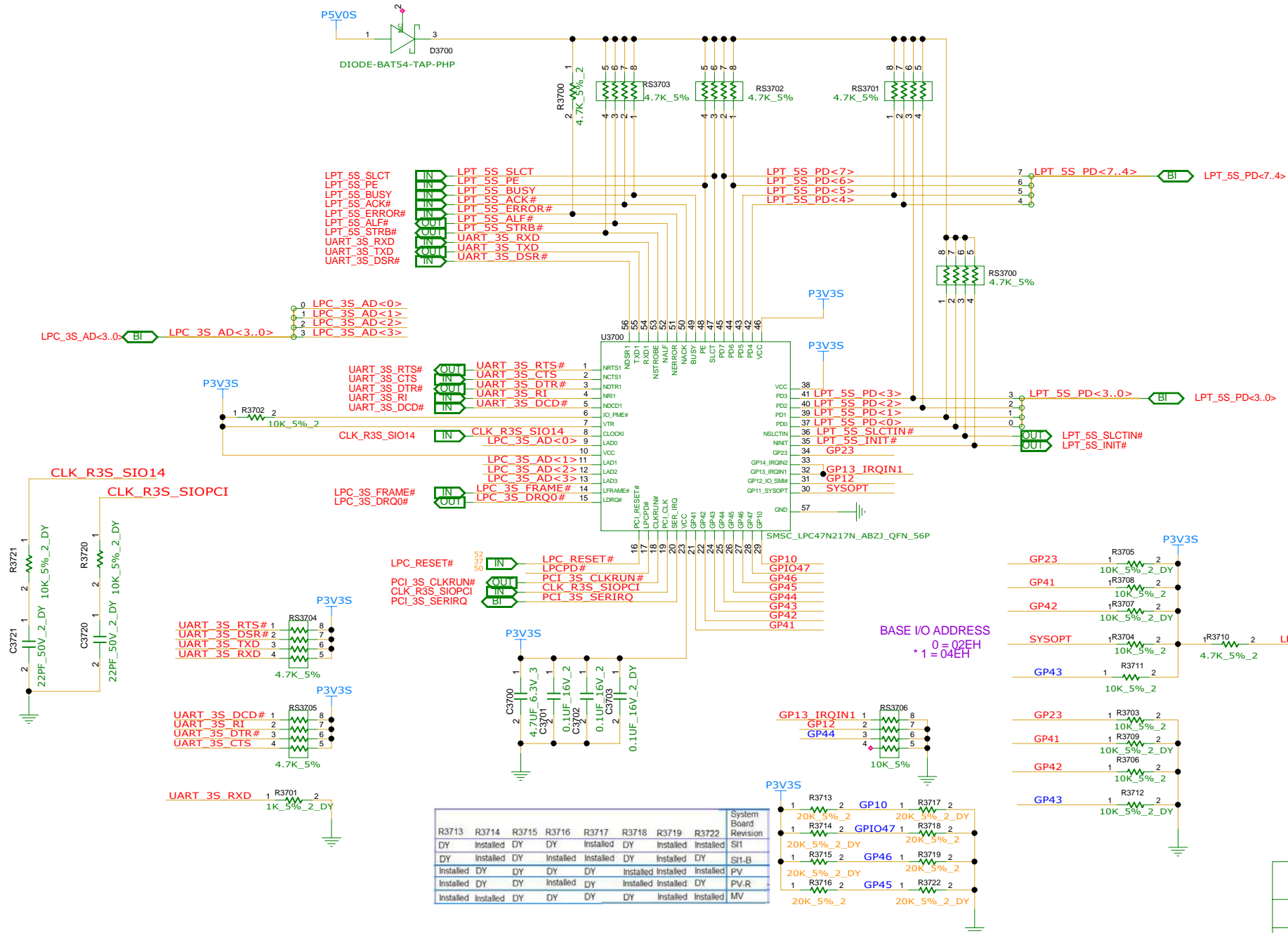
## REFERENCE NUMER : 300~389



INVENTEC

TITLE			
CLAVIN_DJS KEYBOARD			
SIZE	CODE	DOCNUMBER	REV
A3	CS	1310A24700-0-ALG	D
SHEET 51 of 73			

REFERENCE NUMER : 3700~3799



R3713	R3714	R3715	R3716	R3717	R3718	R3719	R3722	System Board Revision
DY	Installed	DY	DY	Installed	DY	Installed	Installed	SI1
DY	Installed	DY	Installed	Installed	DY	Installed	DY	SI1-B
Installed	DY	DY	DY	DY	Installed	Installed	Installed	PV
Installed	DY	DY	Installed	DY	Installed	Installed	DY	PV-R
Installed	Installed	DY	DY	DY	Installed	Installed	Installed	MV

INVENTEC

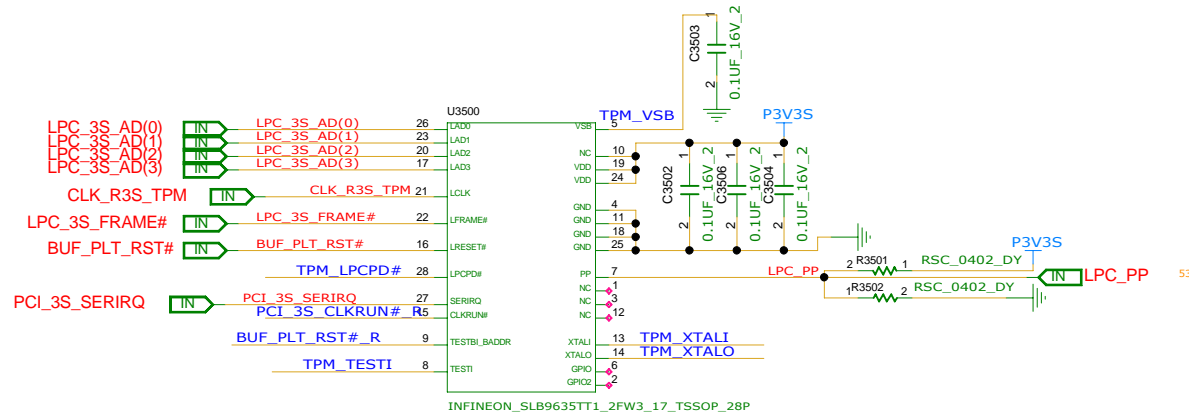
TITLE			
CLAVIN DIS SUPER I/O			
SIZE	CODE	DOCNUMBER	REV
A3	CS	1310A24700-0-ALG	D

CHANGE by EDI CHEN

DATE 23-APR-2012

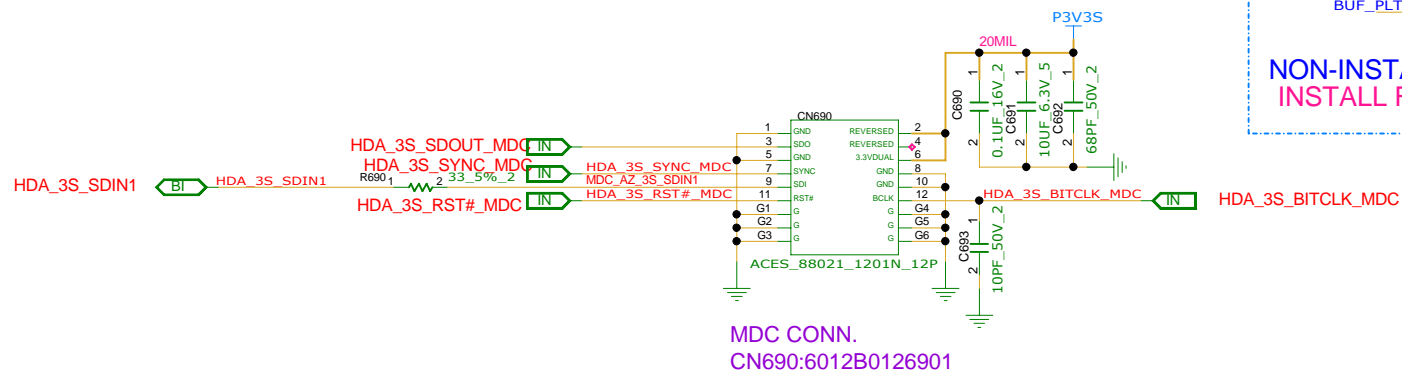
SHEET 52 of 73

REFERENCE NUMBER : 3500~3549

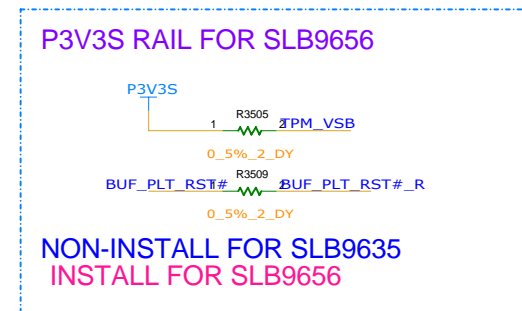
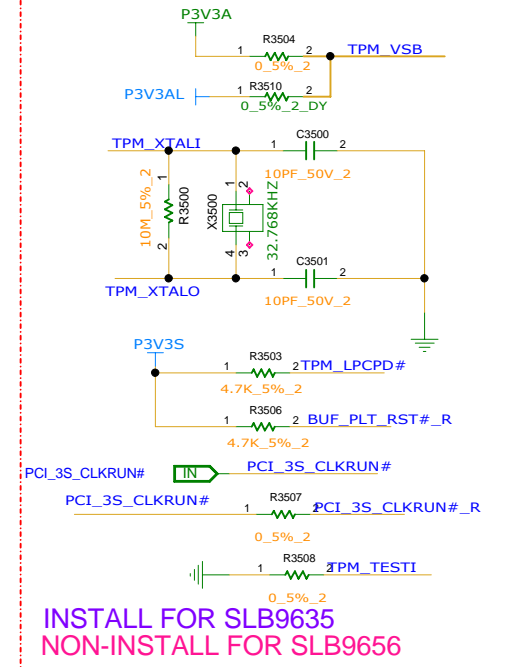


TPM1.2

REFERENCE NUMBER : 650~699



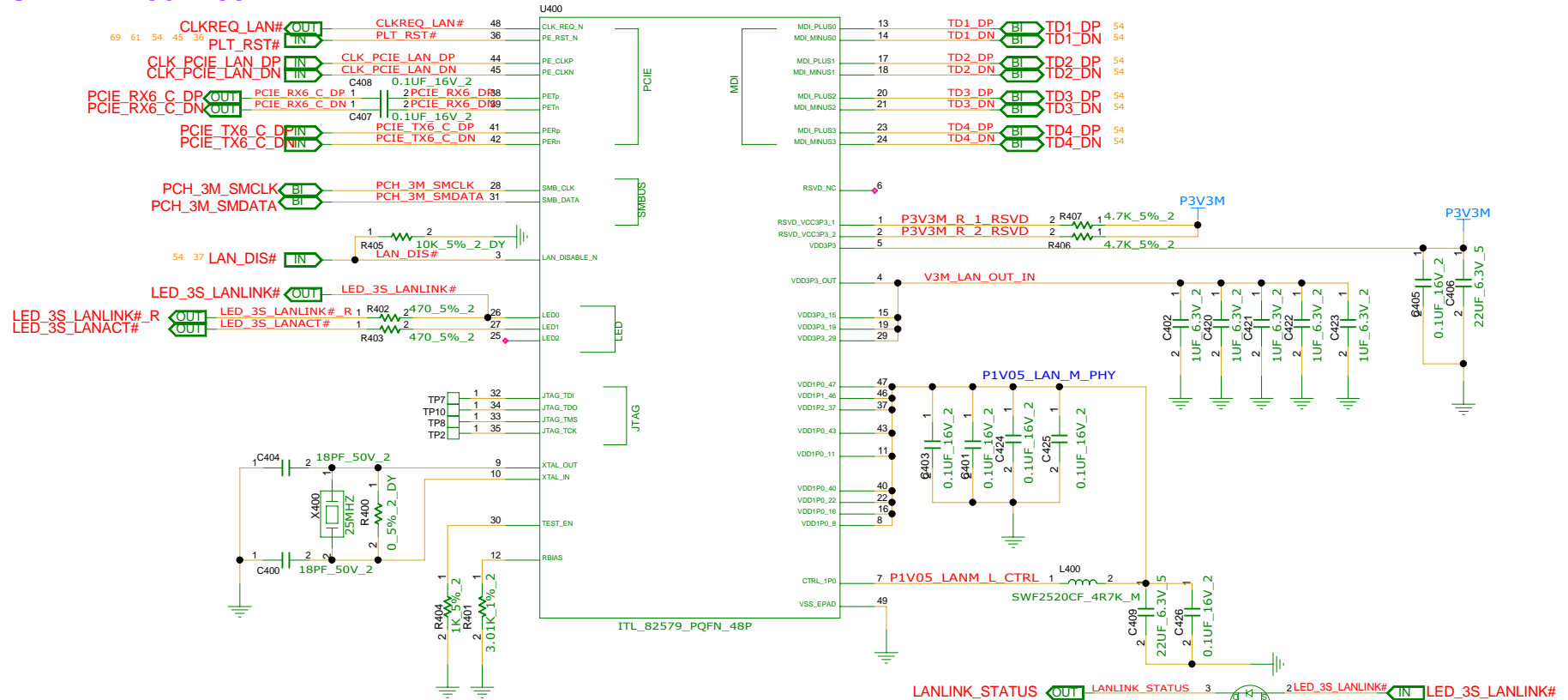
	SLB9635	SLB9656
R3504	INSTALL	OPEN
R3503	INSTALL	OPEN
R3506	INSTALL	OPEN
R3507	INSTALL	OPEN
R3508	INSTALL	OPEN
R3500	INSTALL	OPEN
X3500	INSTALL	OPEN
C3500	INSTALL	OPEN
C3501	INSTALL	OPEN
R3505	OPEN	INSTALL
R3509	OPEN	INSTALL
R3510	OPTION	OPEN



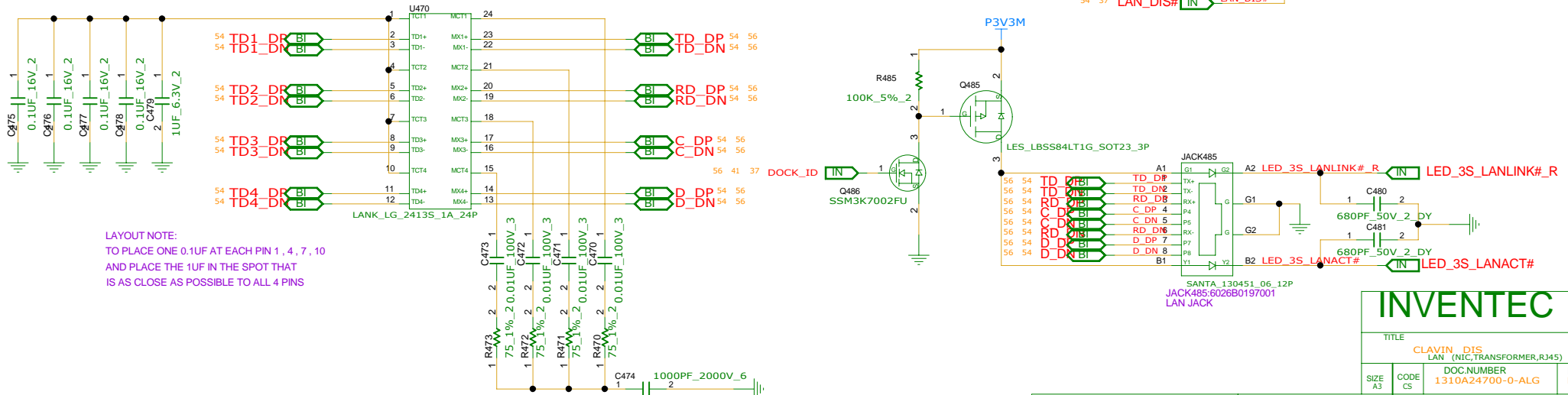
# INVENTEC

TITLE			
CLAVIN DIS TPM & MDC			
SIZE A3	CODE CS	DOC.NUMBER 1310A24700-0-ALG	REV D

## REFERENCE NUMER : 400~469



## REFERENCE NUMER : 470~499



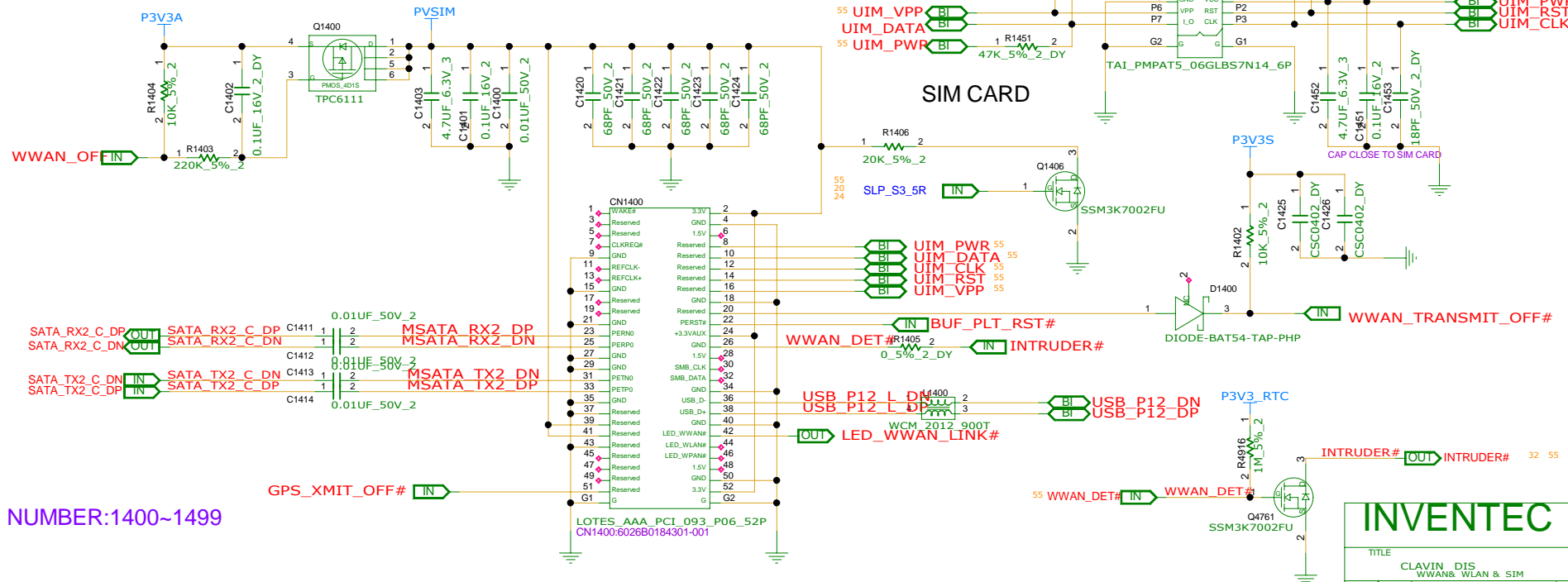
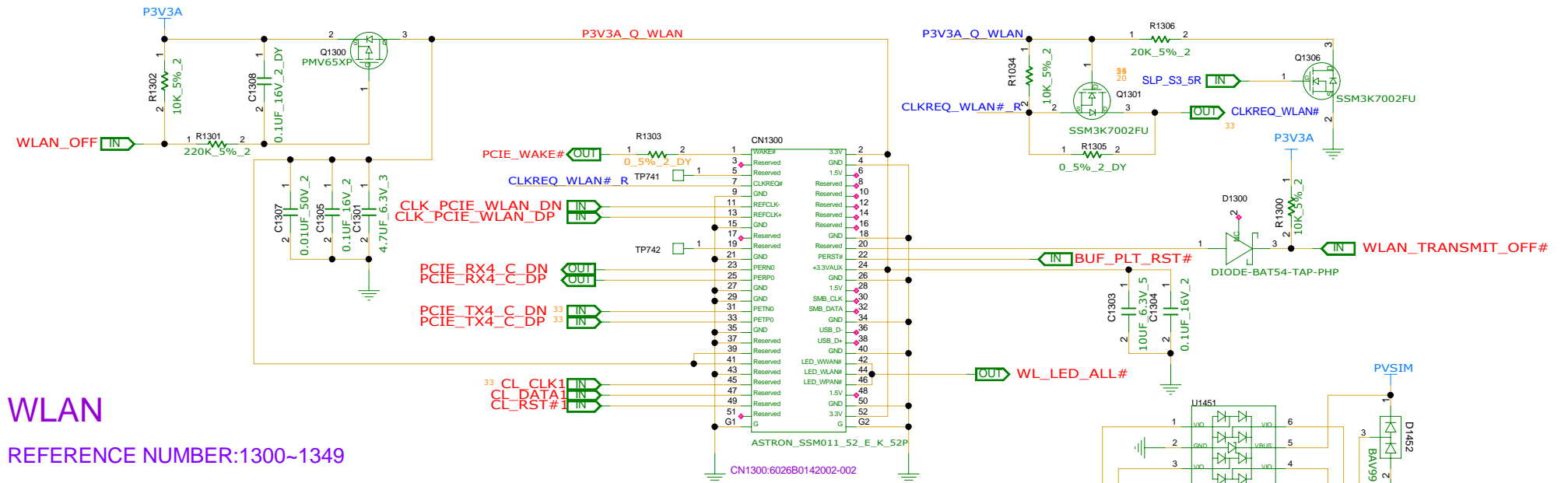
LAYOUT NOTE:  
TO PLACE ONE 0.1UF AT EACH PIN 1, 4, 7, 10  
AND PLACE THE 1UF IN THE SPOT THAT  
IS AS CLOSE AS POSSIBLE TO ALL 4 PINS

INVENTEC

TITLE			
CLAVIN_DIS			
LAN (NIC) TRANSFORMER, RJ45			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A24700-0-ALG	D

CHANGE by EDI\_CHEN DATE 23-APR-2012

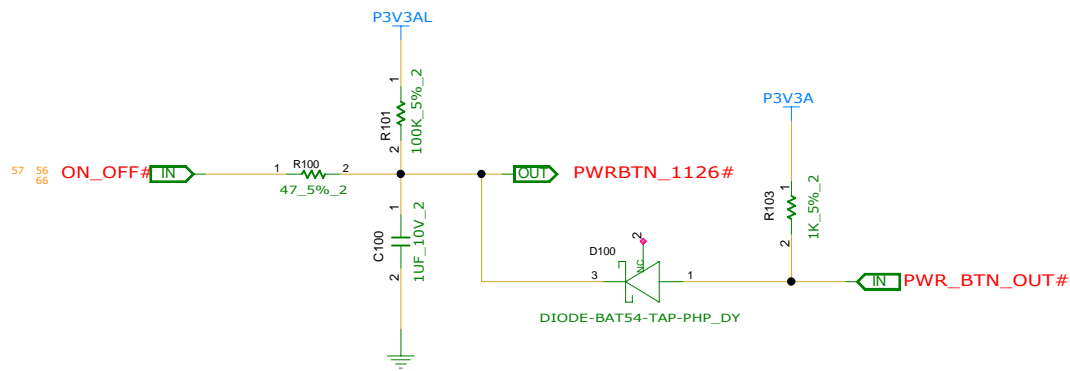
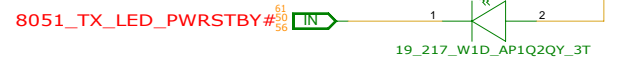
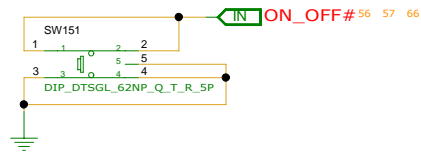
SHEET 54 of 73



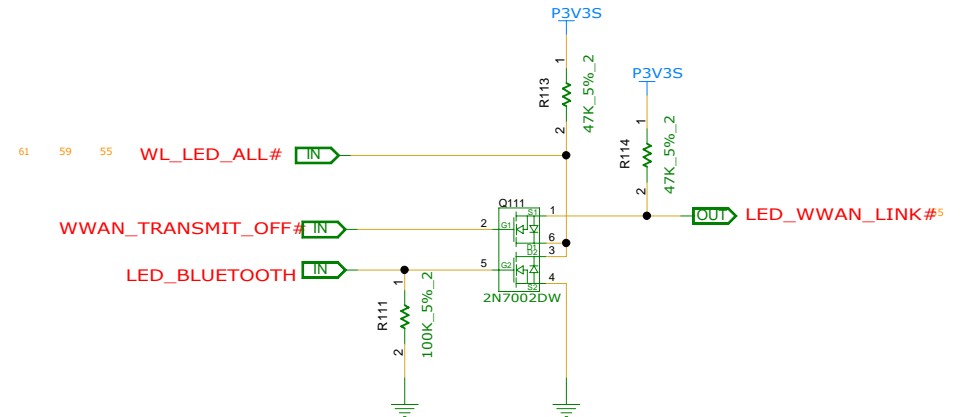
INVENTEC

TITLE			
CLAVIN_DIS WWAN& WLAN & SIM			
DOCNUMBER 1310A24700-0-ALG			
SIZE A3	CODE CS	REV D	





POWER / STANDBY LED



WLAN\_WWAN\_BLUETOOTH\_LED

REFERENCE NUMBER:100~199

INVENTEC

TITLE			
CLAVIN DIS POWER & WLAN_LED			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A24700-0-ALG	D
SHEET 57 of 73			

CHANGE by: EDI\_CHEN DATE: 23-APR-2012

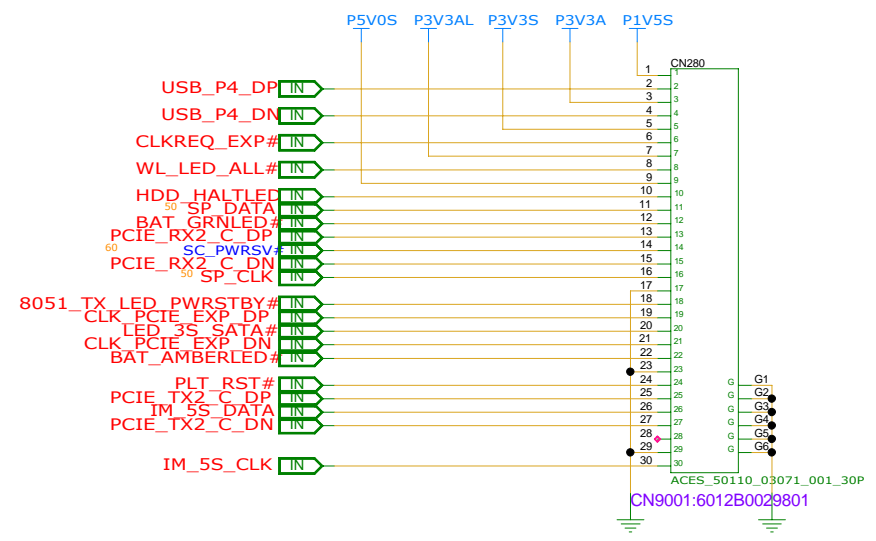


INVENTEC			
TITLE			
CLAVIN DIS SCREW			
SIZE A3	CODE CS	DOC NUMBER 1310A24700-0-ALG	REV D
SHEET		58	68 73





TITLE			
CLAVIN DIS SMART CARD			
SIZE A3	CODE CS	DOC.NUMBER 1310A24700-0-ALG	REV D



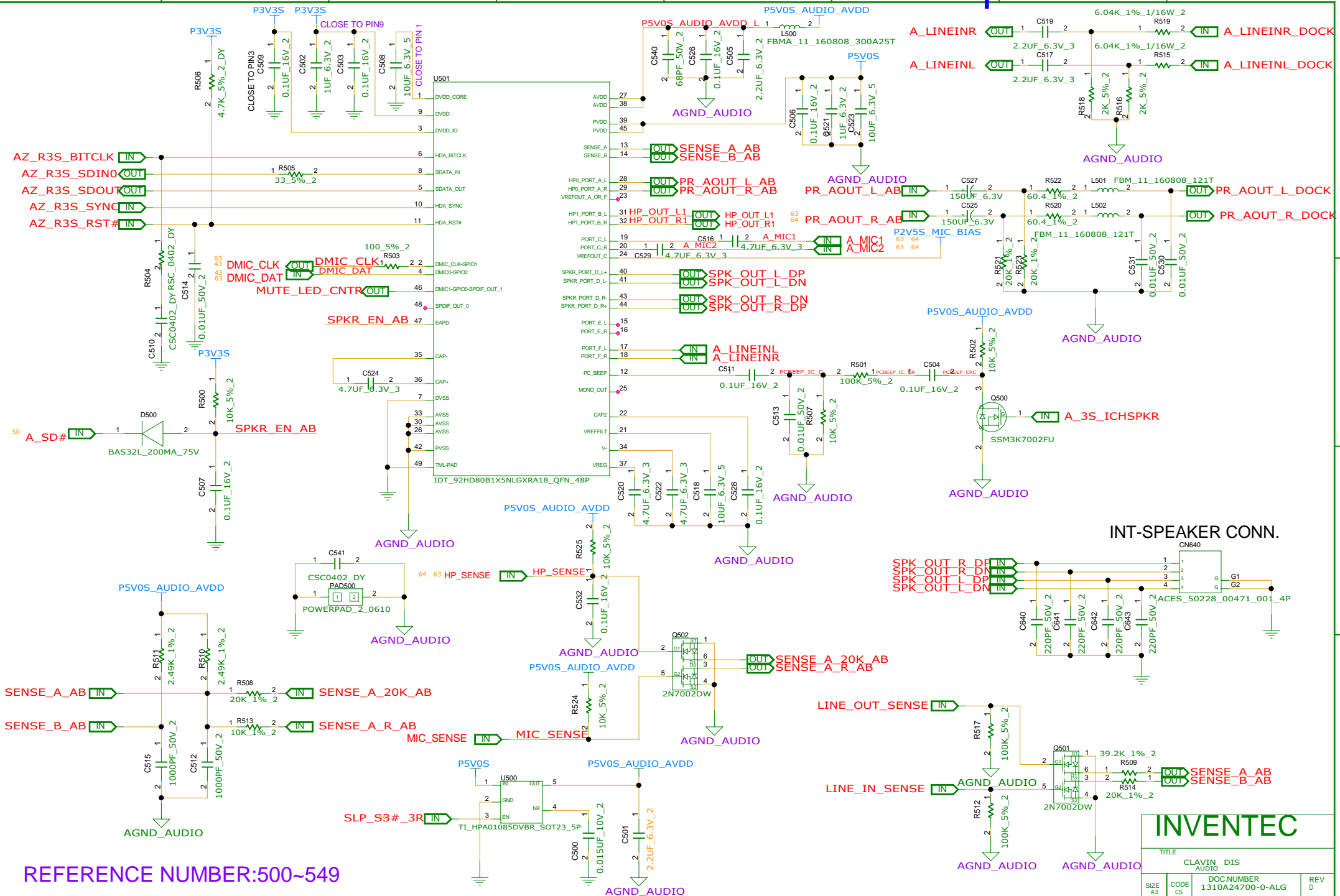
EXPRESS CARD MB CONN.

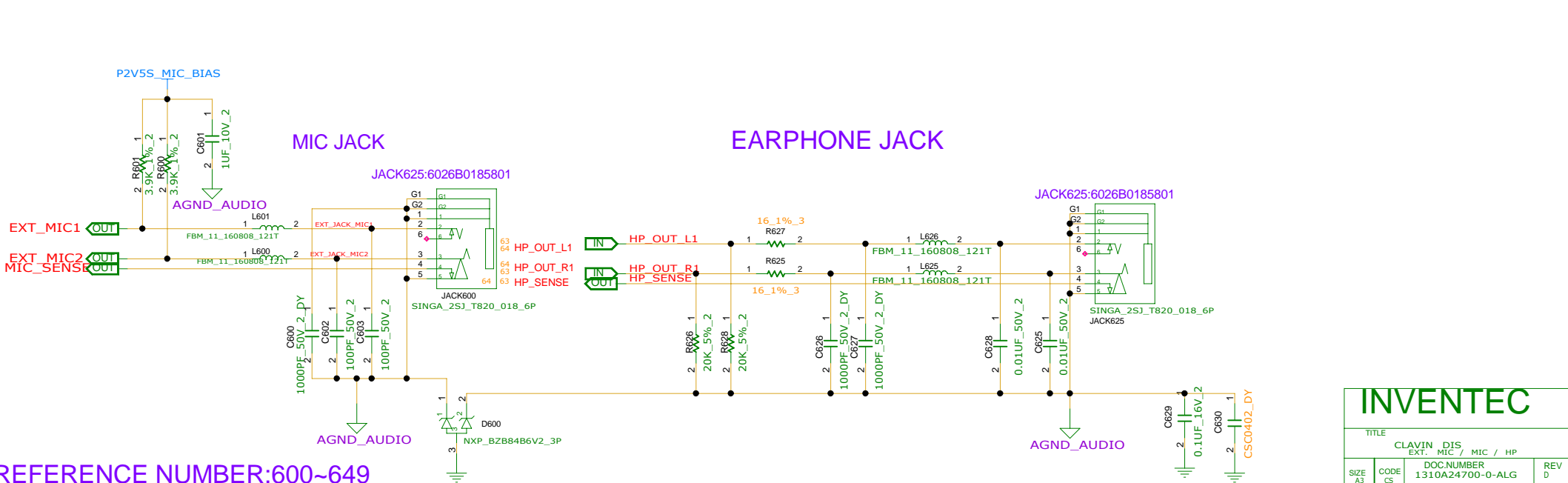
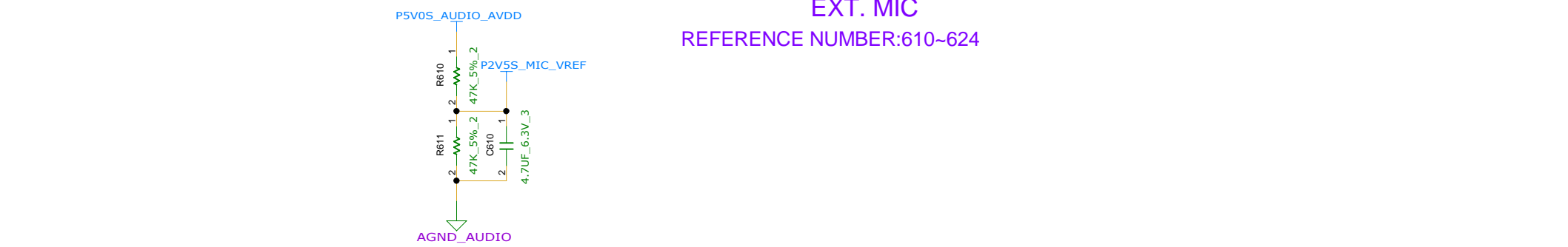
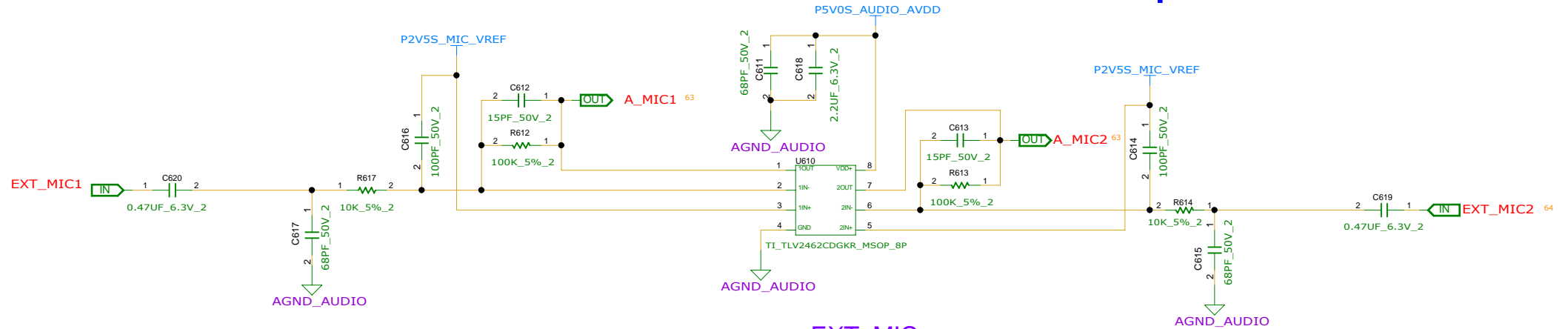
INVENTEC			
TITLE			
CLAVIN_D1S EXPRESS CARD CNTR			
SIZE A3	CODE CS	DOC NUMBER 1310A24700-0-ALG	REV D

BLANK

INVENTEC

TITLE			
CLAVIN DIS BLANK			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A24700-0-ALG	D





INVENTEC			
TITLE CLAVIN_DIS EXT. MIC / MIC / HP			
SIZE A3	CODE CS	DOC NUMBER 1310A24700-0-ALG	REV D
SHEET 64 of 73			

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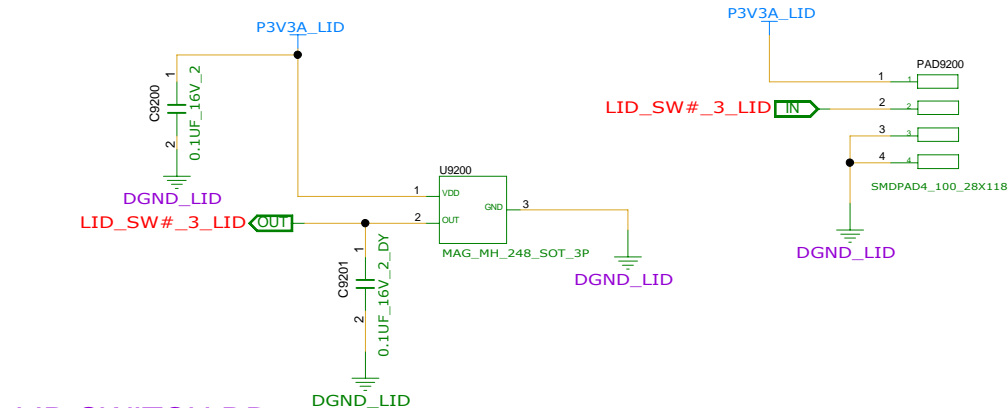
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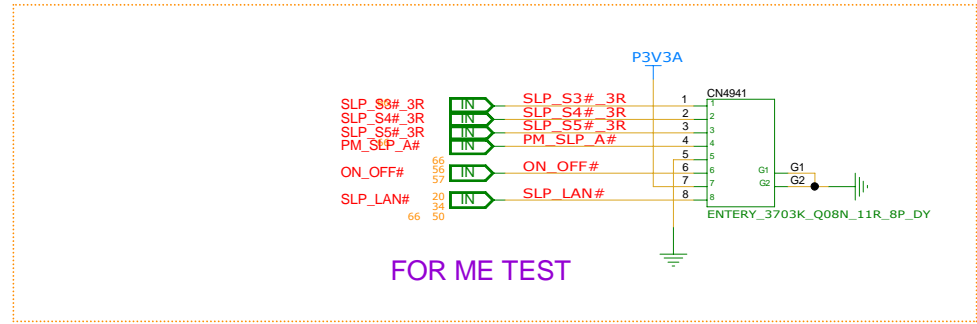
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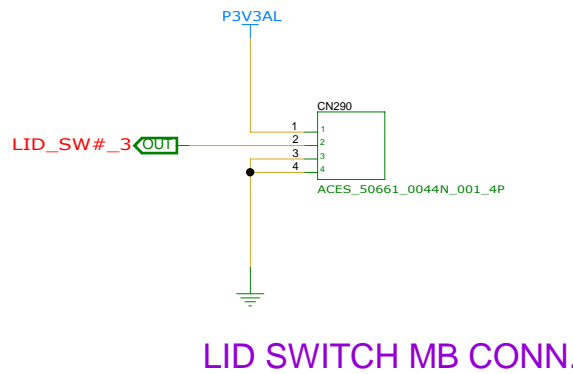


LID SWITCH DB

REFERENCE NUMBER:9200~9299

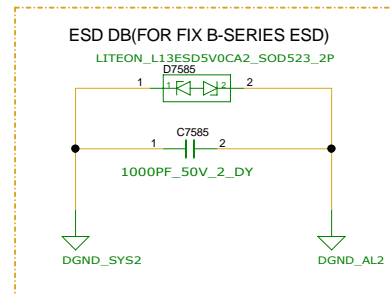
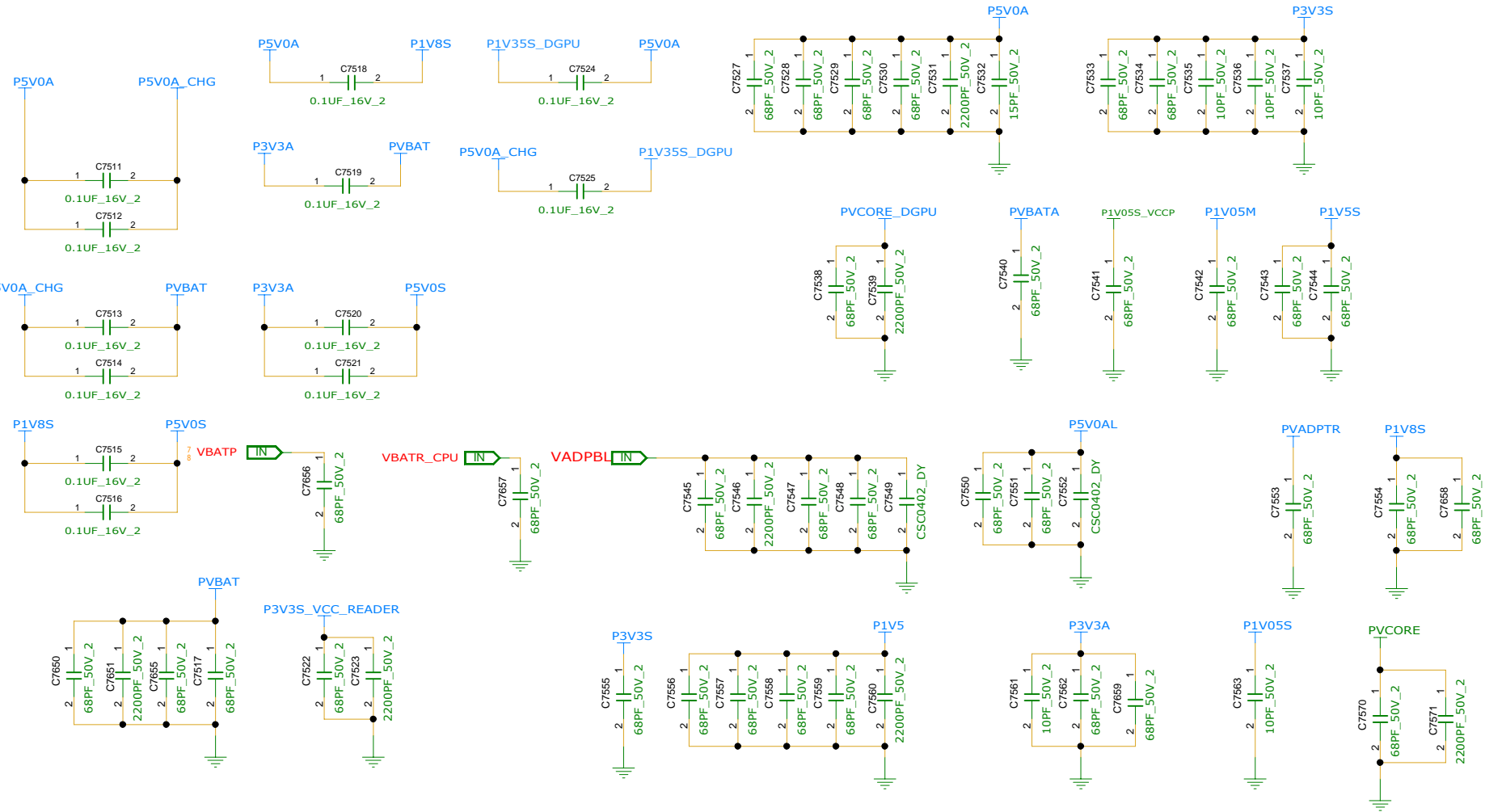


FOR ME TEST



LID SWITCH MB CONN.

INVENTEC			
TITLE CLAVIN_DIS LID_SWITCH			
SIZE A3	CODE CS	DOC NUMBER 1310A24700-0-ALG	REV D



INVENTEC

TITLE			
CLAVIN DIS EMI & RF SOLUTION			
DOCNUMBER 1310A24700-0-ALG			
SIZE A3	CODE CS	REV D	

CHANGE by EDI CHEN

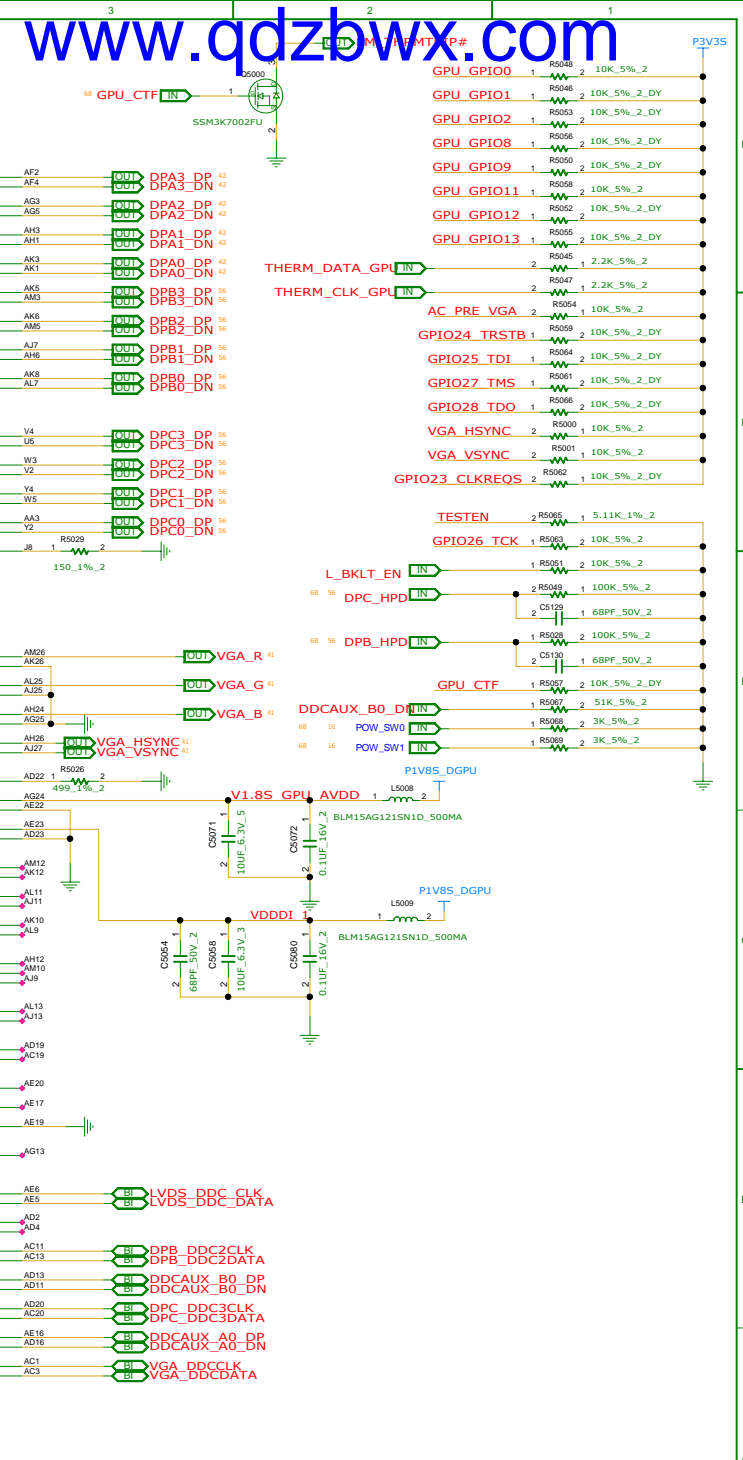
DATE 23-APR-2012

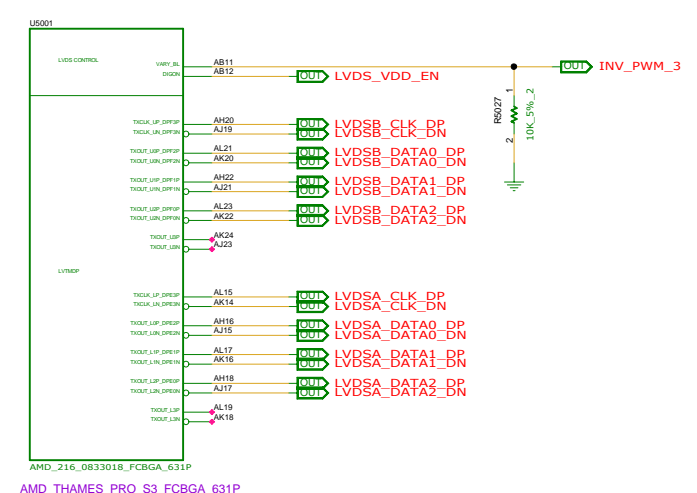
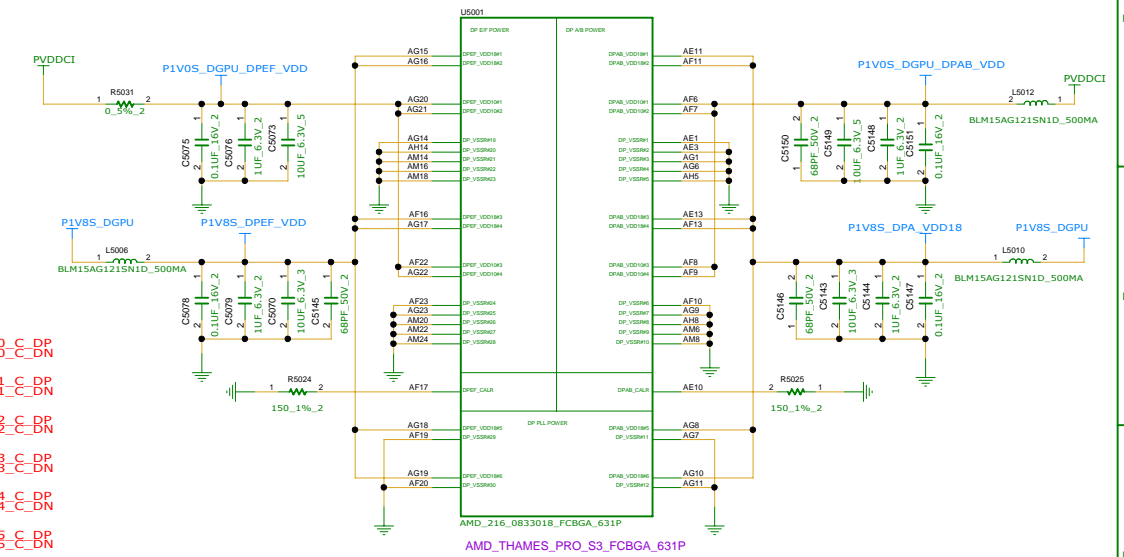
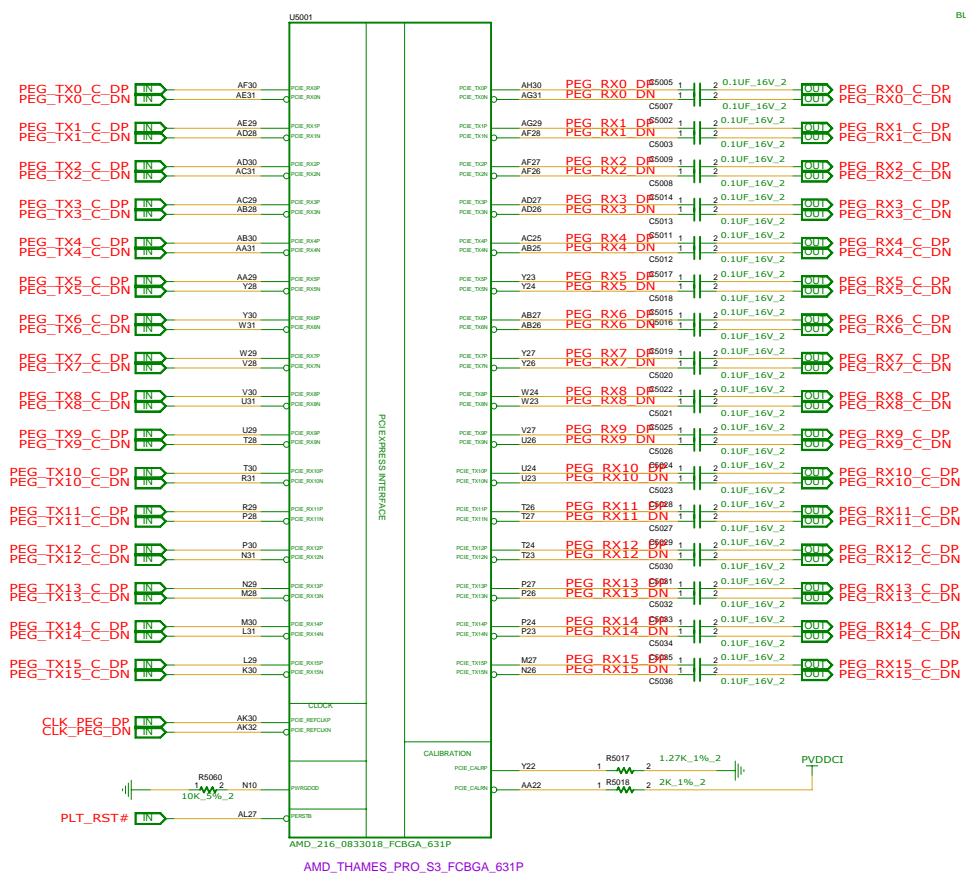
SHEET 67 of 73

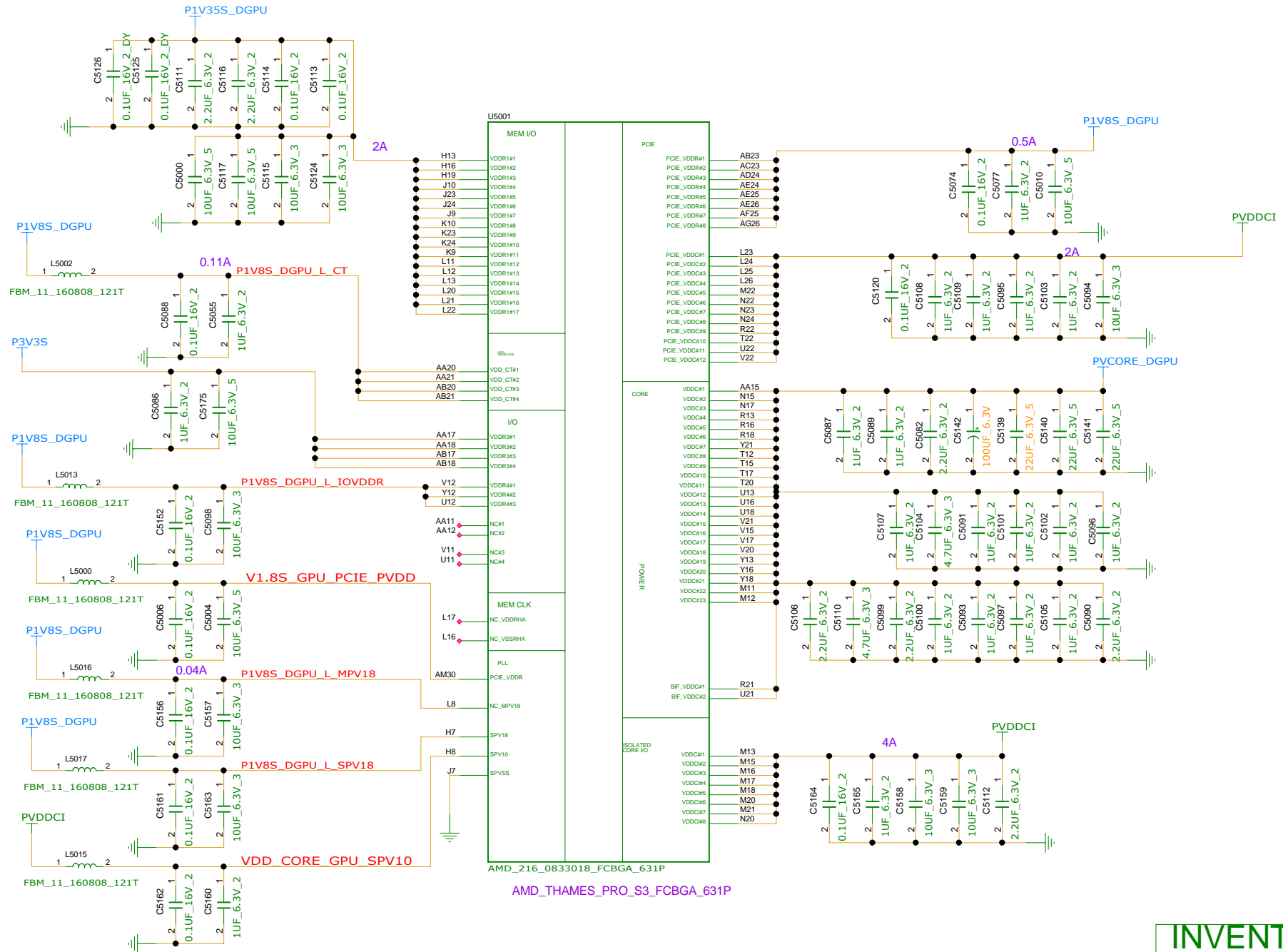
GPIO_13	GPIO_12	GPIO_11	MEMORY APERTURE SIZE
0	0	1	512MB/256MB memory aperture (Default)
1	1	0	Reserved

The schematic diagram illustrates the internal components and connections of the AMD R780M PCB. Key functional blocks include:

- DVO (Display Output Controller):** Includes Y11 AED, NO, AE8 AD0, AC10 AD1, AC6 AB0, AC7 AB1, AC8 AB2, AC9 AB3, AC10 AB4, AC11 AB5, AC12 AB6, AC13 AB7, AC14 AB8, AC15 AB9, AC16 AB10.
- DPB (Digital Port Block):** Includes MEM ID3, MEM ID2, MEM ID1, MEM ID0, Y8, Y7, Y6, Y5, Y4, Y3, Y2, Y1, Y0.
- DPC (Digital Port Controller):** Includes V6 W6, ACB W5, ACS W4, AAS W3, AA6 W2, UH U1, U3 U2, U4 U1, Y6 Y5, Y8 Y7, Y4 Y3, Y2 Y1, Y0 Y0.
- DACI (Digital-to-Analog Converter Interface):** Includes GPU GPIO0 U8, GPU GPIO1 U10, GPU GPIO2 T10, GPU GPIO3 T11, GPU GPIO4 T12, GPU GPIO5 T13, GPU GPIO6 T14, GPU GPIO7 T15, GPU GPIO8 T16, GPU GPIO9 T17, GPU GPIO10 P4, GPU GPIO11 P2, GPU GPIO12 N5, GPU GPIO13 N3, Y9 Y8, NI N1, NI N2, NI N3, NI N4, NI N5, NI N6, NI N7, NI N8, NI N9, NI N10, NI N11, NI N12, NI N13, NI N14, NI N15, NI N16, NI N17, NI N18, NI N19, NI N20, NI N21, NI N22, NI N23, NI N24, NI N25, NI N26, NI N27, NI N28, NI N29, NI N30, NI N31, NI N32, NI N33, NI N34, NI N35, NI N36, NI N37, NI N38, NI N39, NI N40, NI N41, NI N42, NI N43, NI N44, NI N45, NI N46, NI N47, NI N48, NI N49, NI N50, NI N51, NI N52, NI N53, NI N54, NI N55, NI N56, NI N57, NI N58, NI N59, NI N60, NI N61, NI N62, NI N63, NI N64, NI N65, NI N66, NI N67, NI N68, NI N69, NI N70, NI N71, NI N72, NI N73, NI N74, NI N75, NI N76, NI N77, NI N78, NI N79, NI N80, NI N81, NI N82, NI N83, NI N84, NI N85, NI N86, NI N87, NI N88, NI N89, NI N90, NI N91, NI 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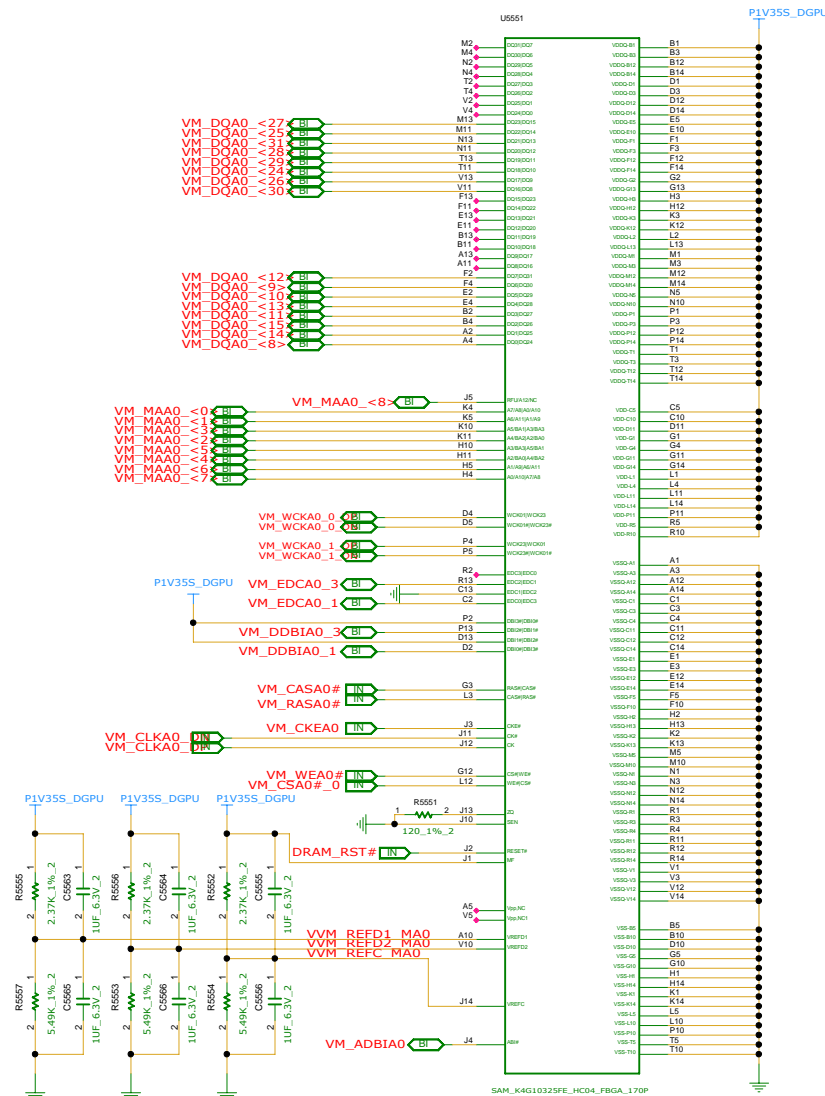
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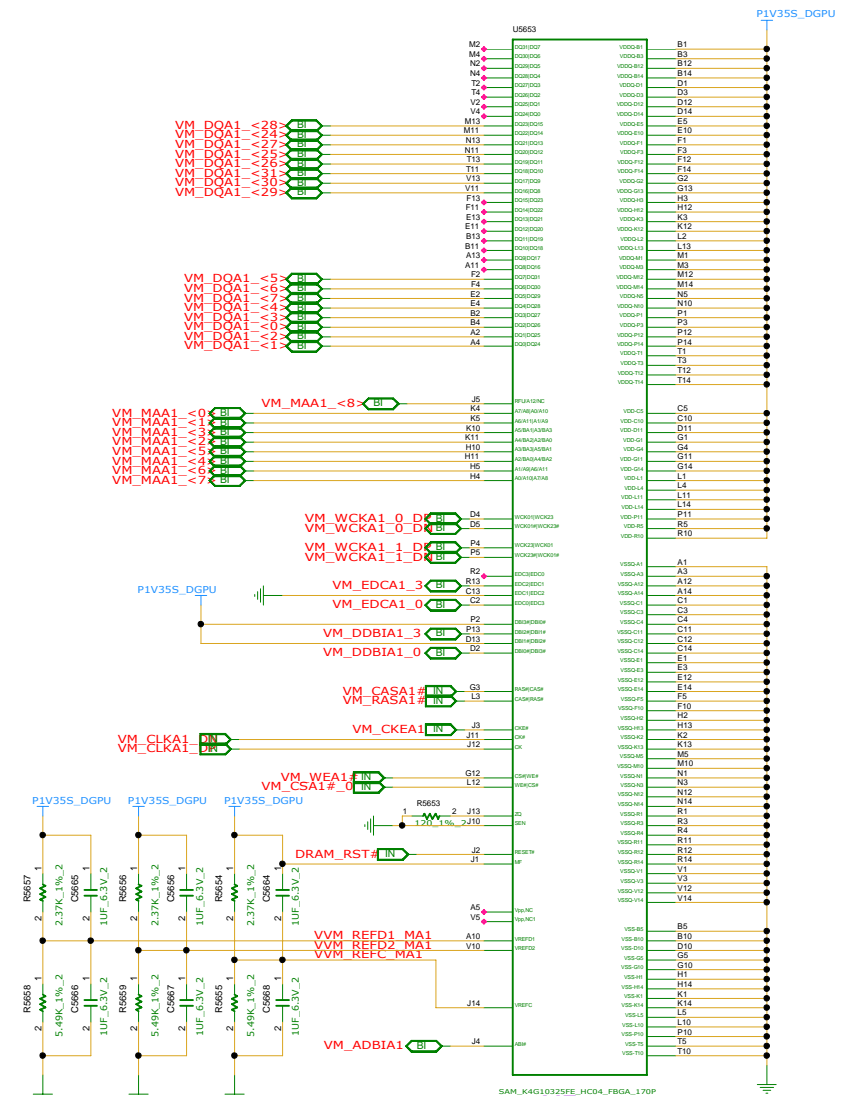
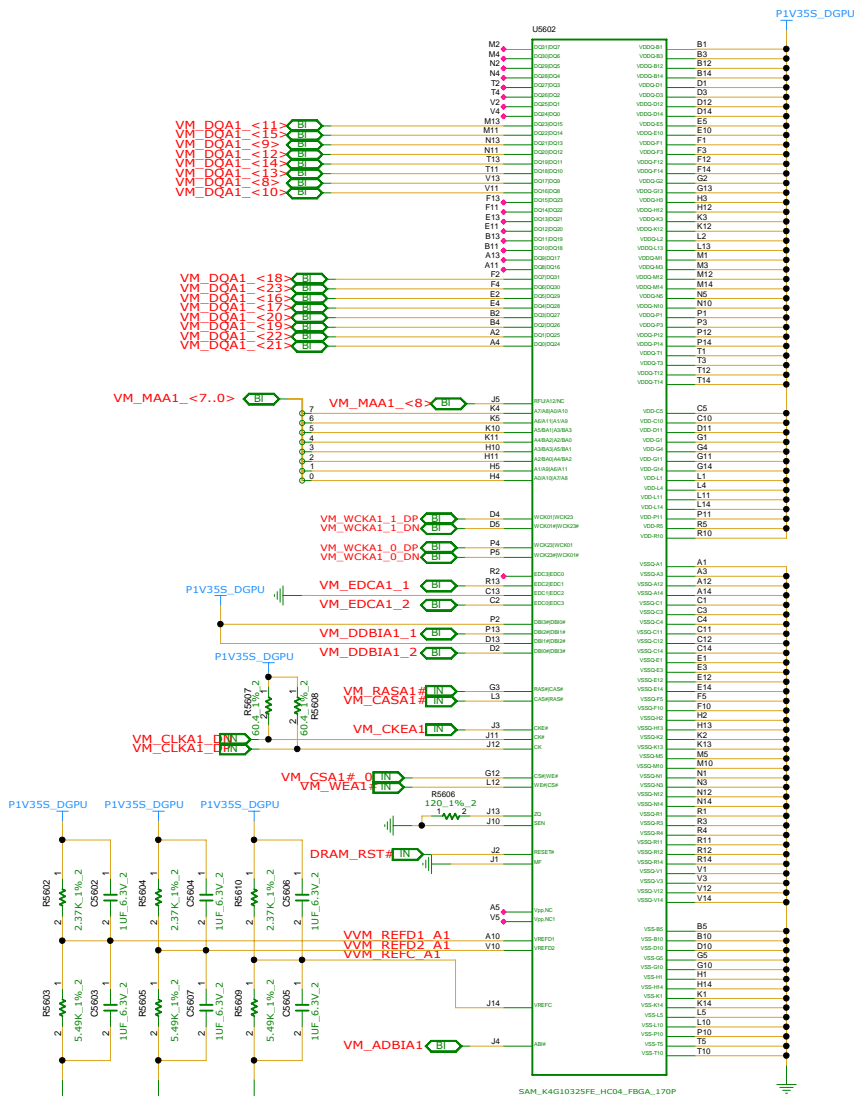
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