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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	D
02-APR-2012	2012-ECO-006245	D
DATE	CHANGE NO.	

INVENTEC			
DRAWER	EE	DATE	POWER
DESIGN	ETDI CHEN	01 APR 2012	ALAN USHER
CHECK	ETDI CHEN	03 APR 2012	ALAN USHER
RESPONSIBLE	ETDI CHEN	03 APR 2012	ALAN USHER
SIZE	A3	VER	A02
FILE NAME	CALVIN-DIS-MB-1310A247001		SIZE
PIN	R050A247001		CODE
			DOC NUMBER
			REV
			SHEET

<http://sualaptop365.vn>  
[www.vinafix.vn](http://www.vinafix.vn)

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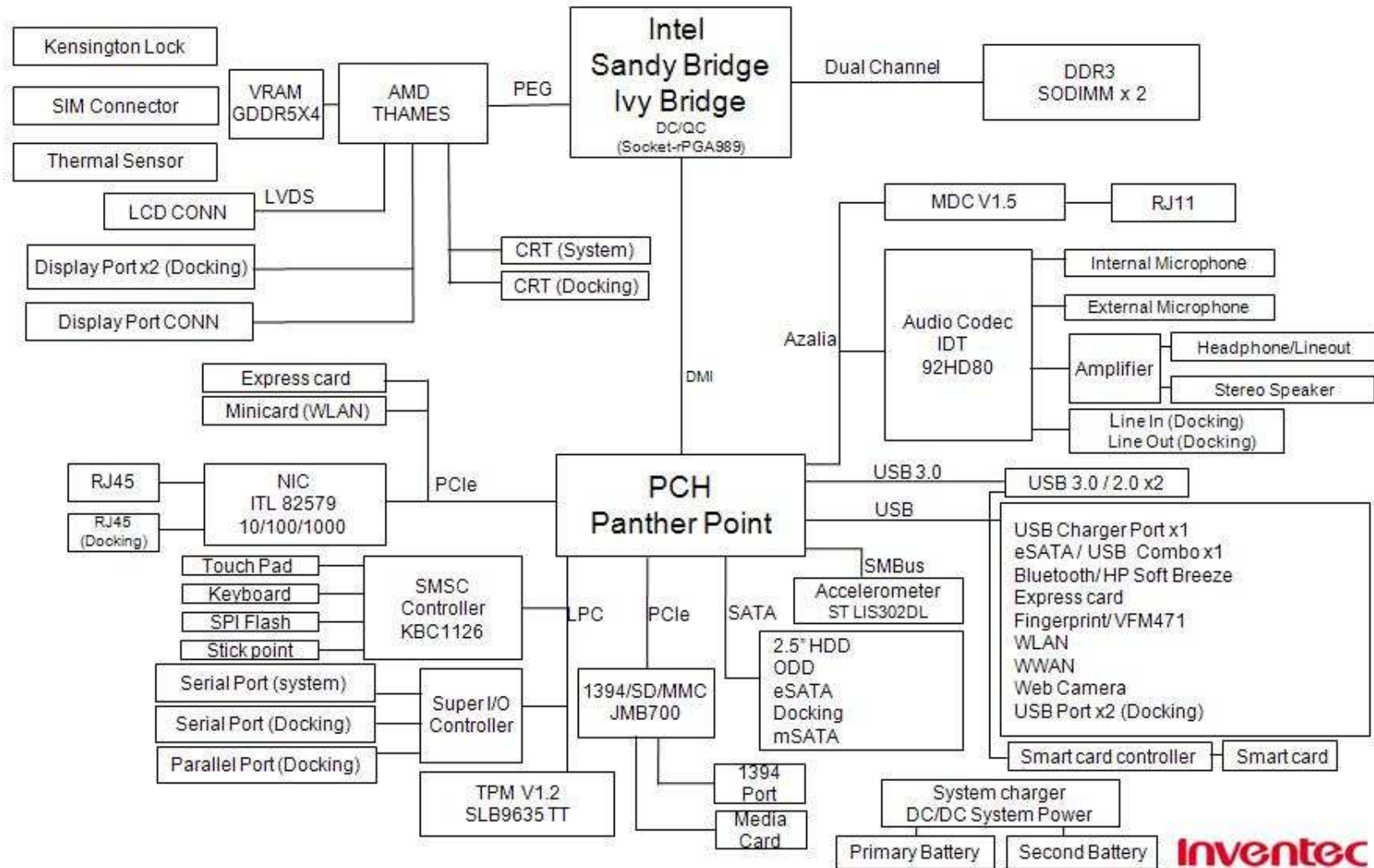
55. WWAN & WLAN & SIM
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**INVENTEC**

TITLE			
CLAVIN DIS TABLE OF CONTENTS			
SIZE A3	CODE CS	DOC.NUMBER 1310A24700-0-ALG	REV D
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CHANGE by: EDI CHEN DATE: 23-APR-2012

# CALVIN Discrete Block Diagram



INVENTEC

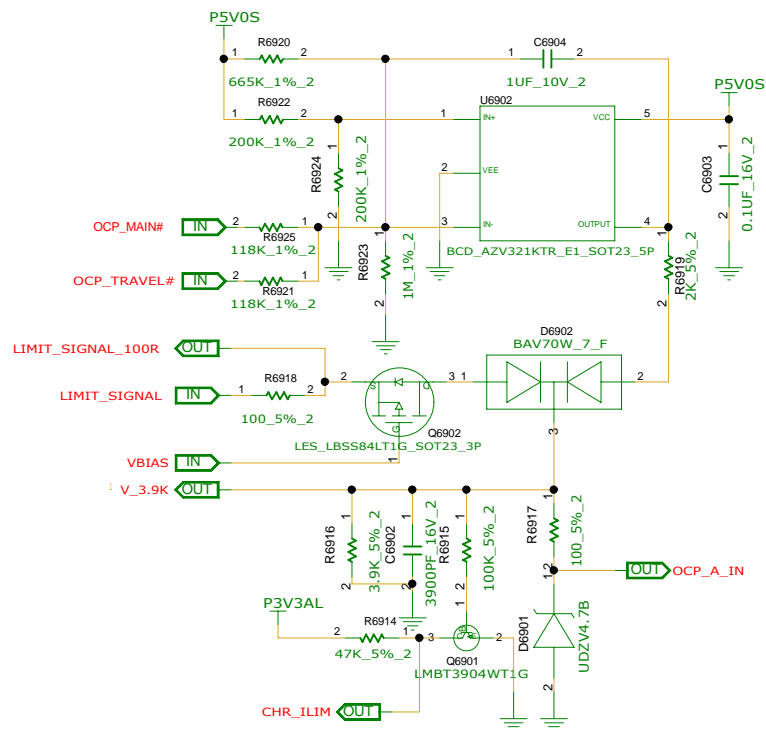
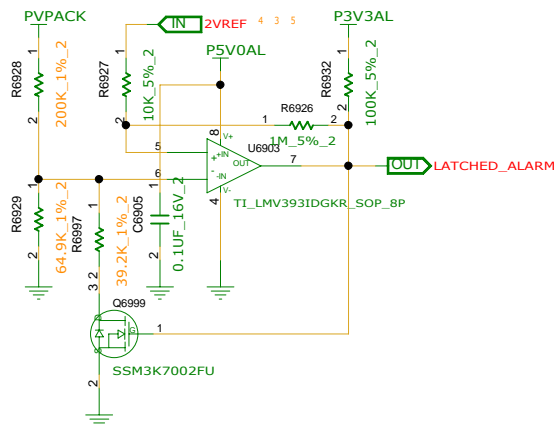
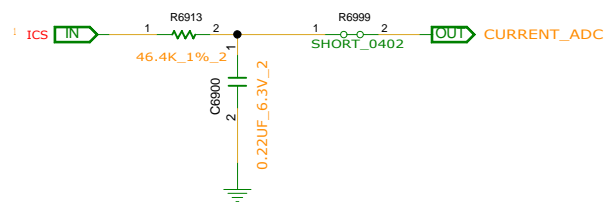
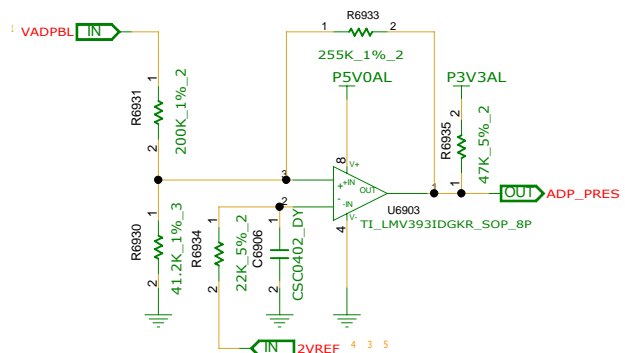
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CHANGE by: EDT, CHEN DATE: 23-APR-2012

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INVENTEC

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CLAVIN\_DIS  
SYSTEM POWER(OCP)

DOC NUMBER  
1310A24700-0-ALG

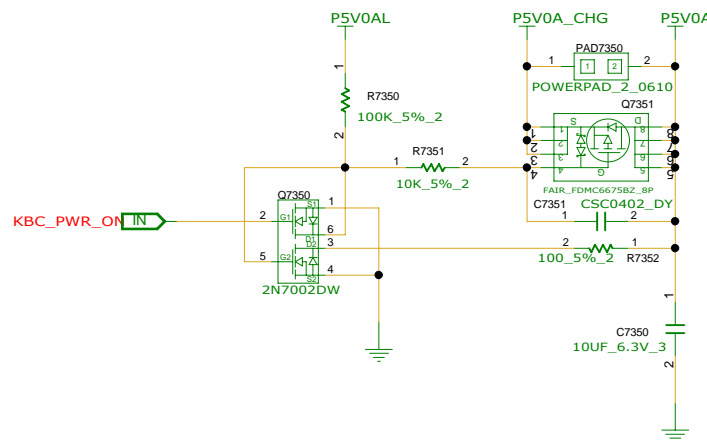
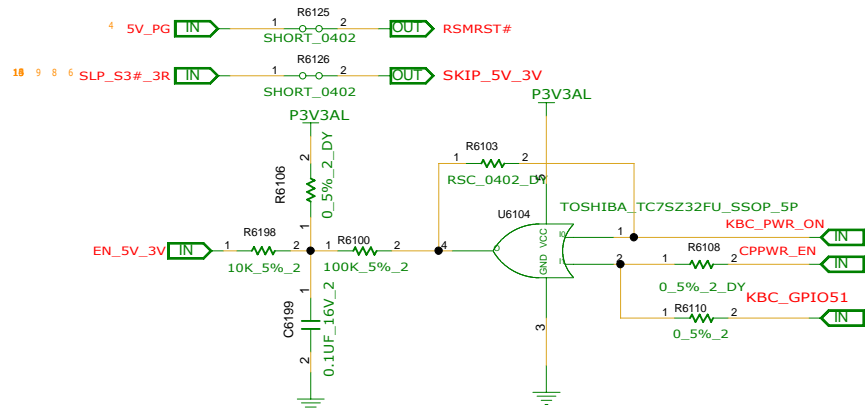
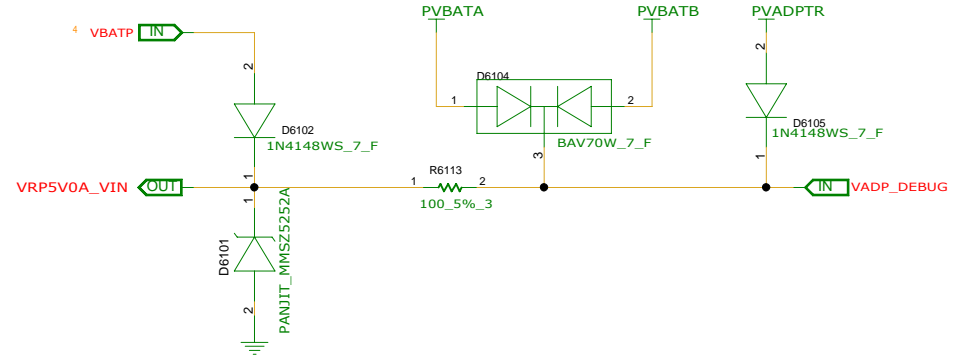
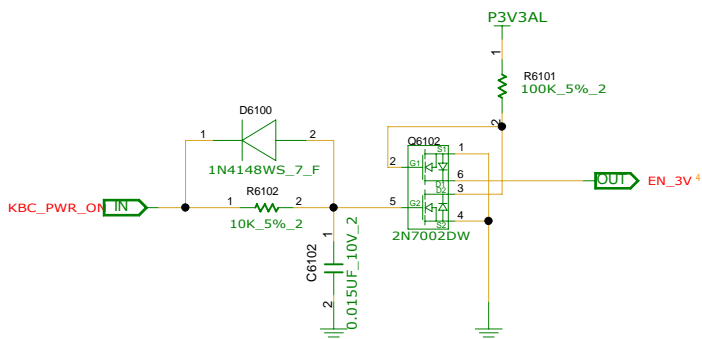
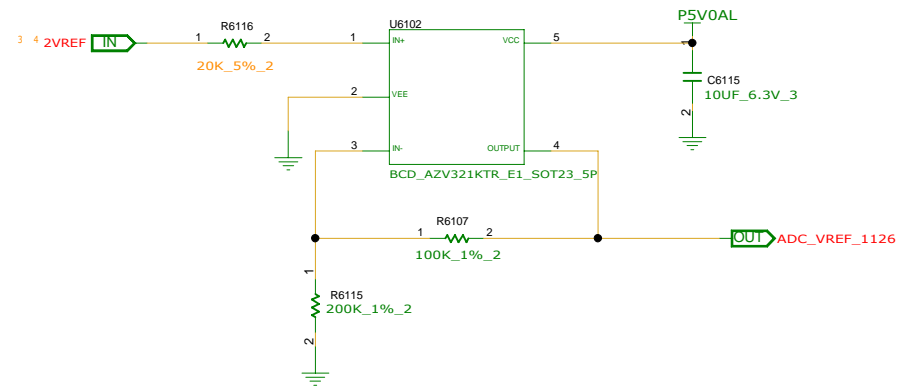
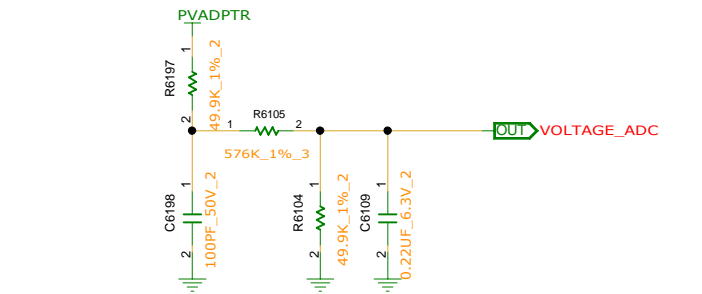
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CHANGE by  
EDT\_CHEN

DATE  
23-APR-2012

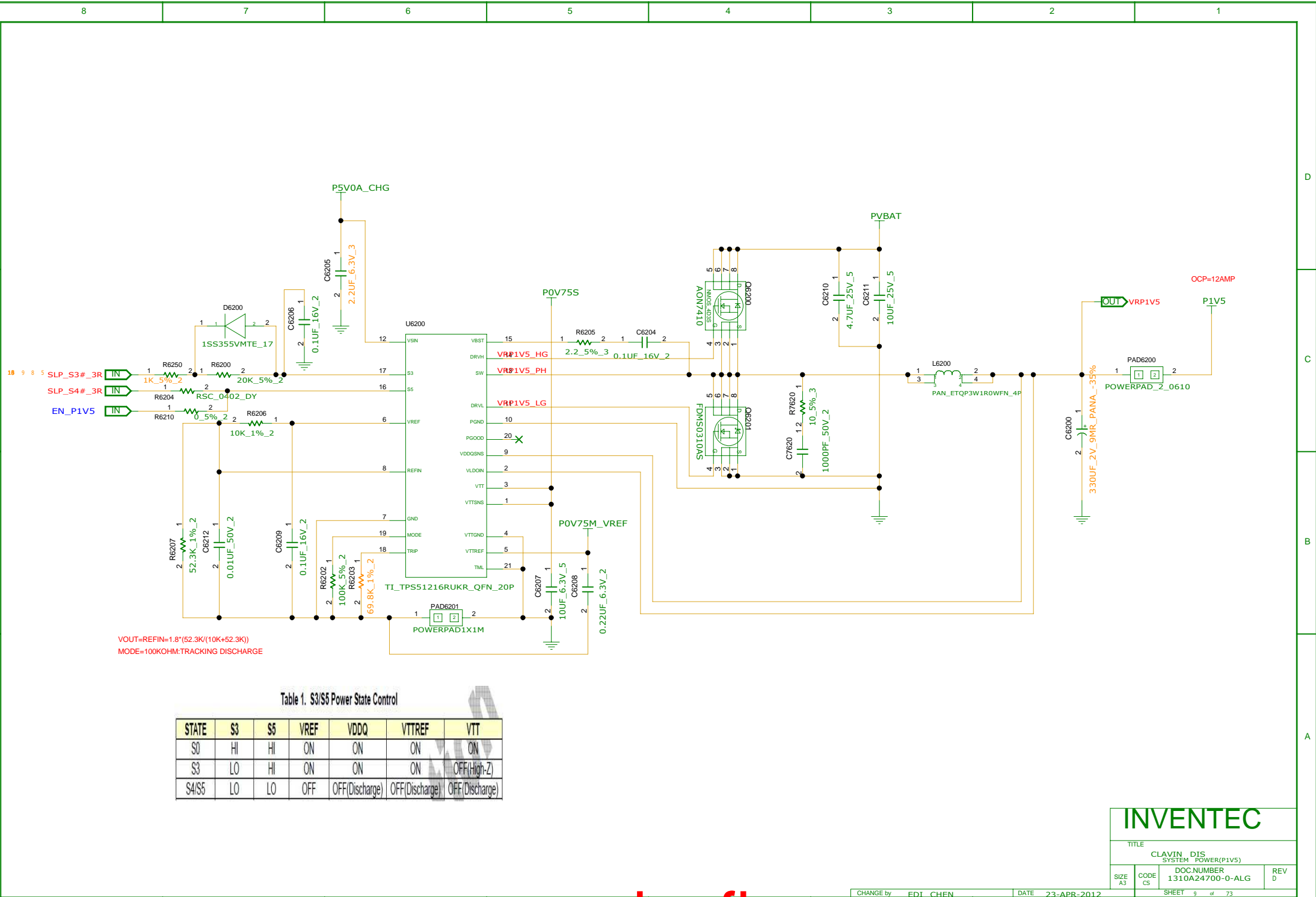
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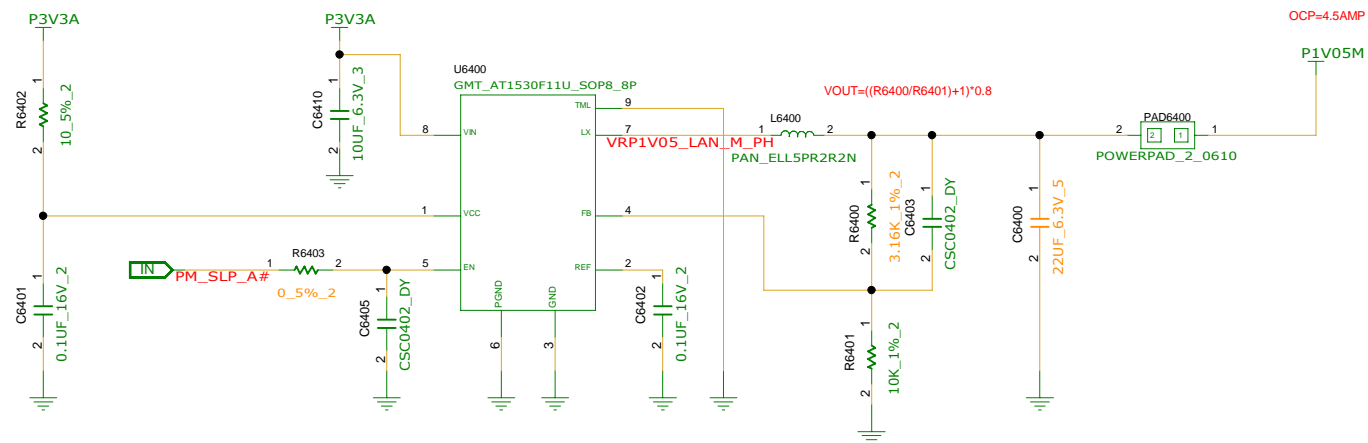




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CLAVIN_DIS			
P3V3ABP5V0A_CHG_PORT			
DOCNUMBER			
1310A24700-0-ALG			
REV			
D			
SIZE	CODE	SHEET	
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INVENTEC

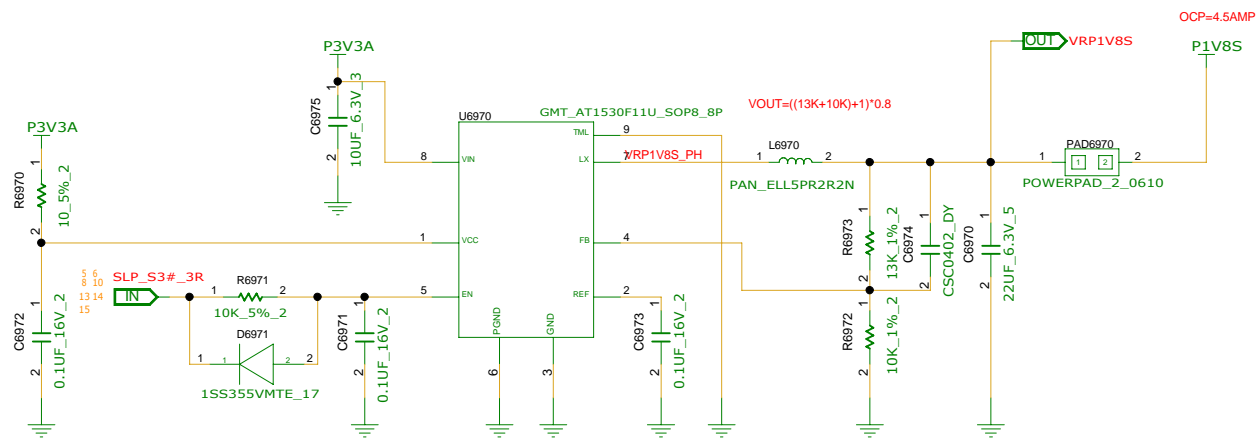
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1310A24700-0-ALG			
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**INVENTEC**

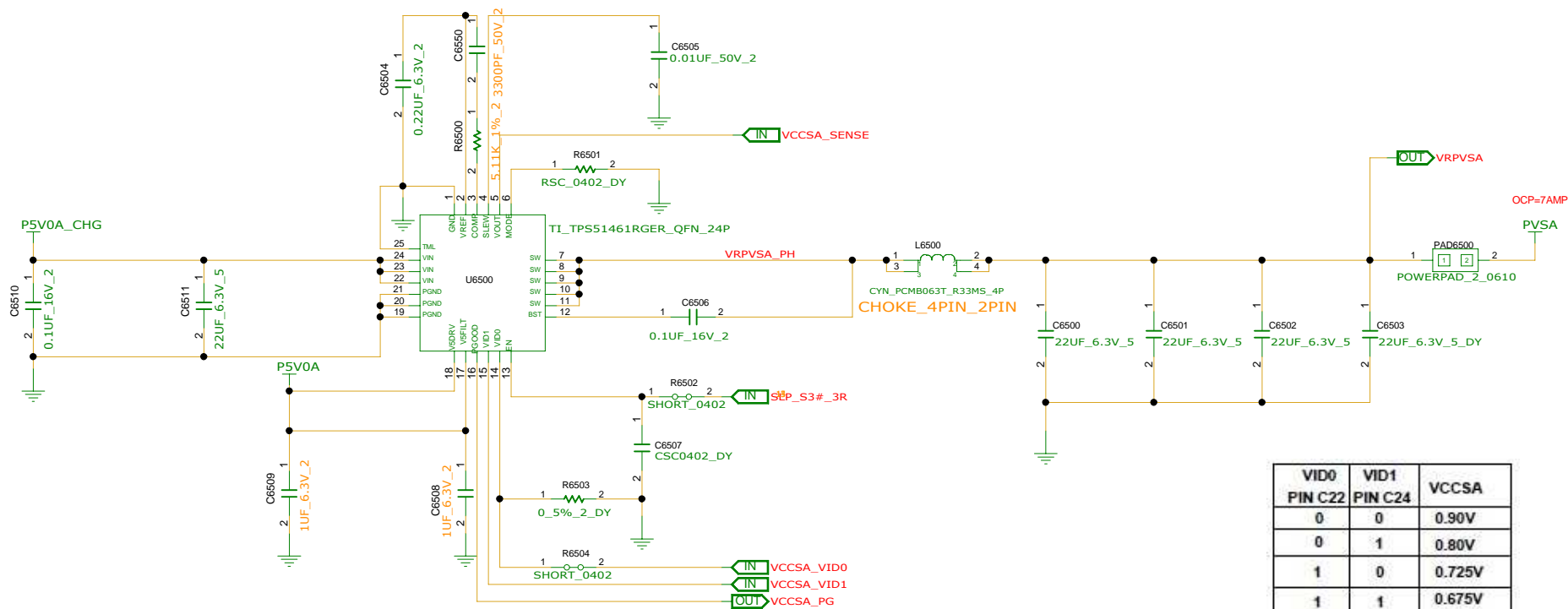
TITLE CLAVIN DIS  
SYSTEM POWER(P1V8S)

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

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INVENTEC

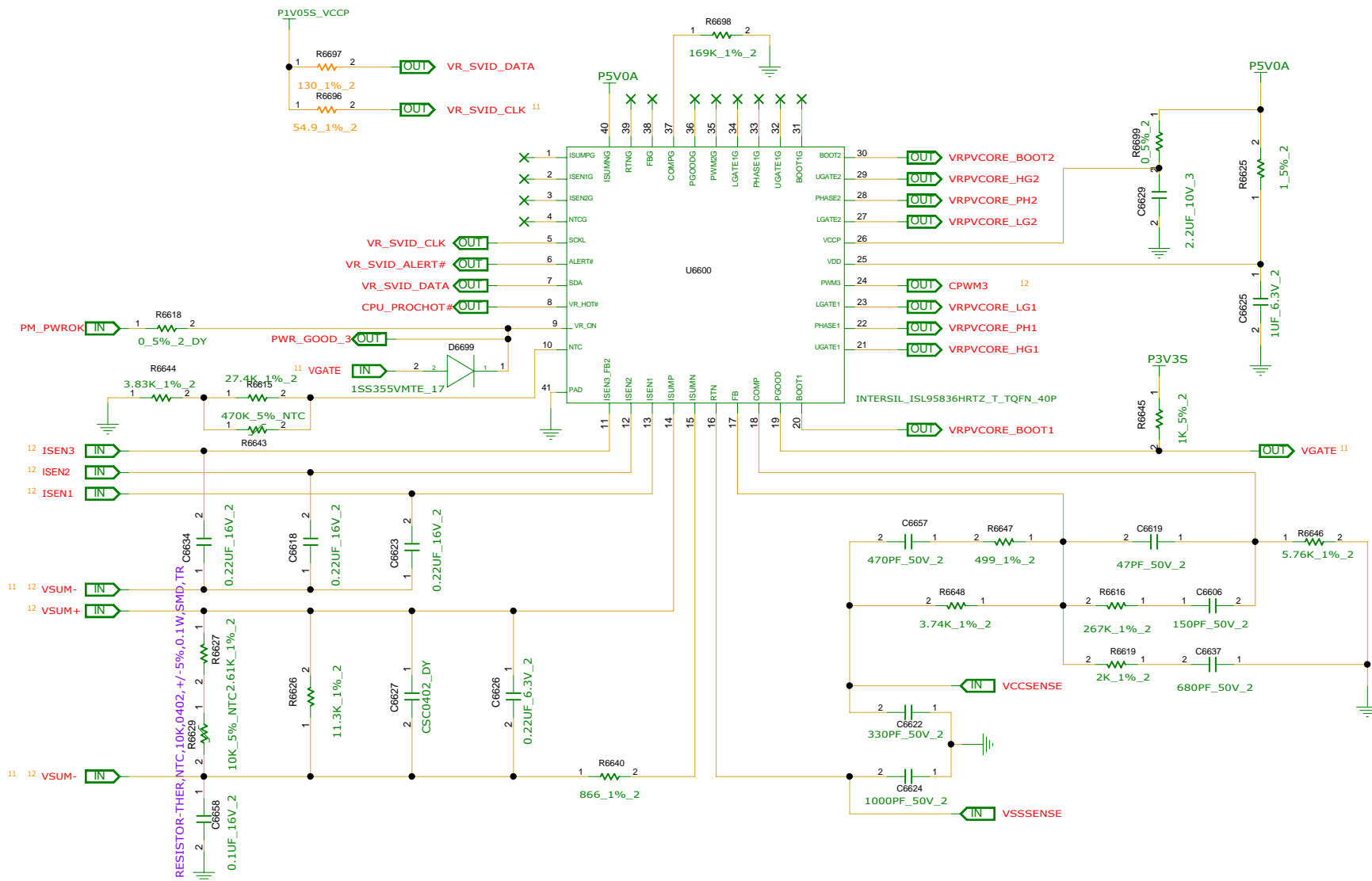
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CLAVIN\_DIS  
SYSTEM POWER(PVSA)

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1310A24700-0-ALG

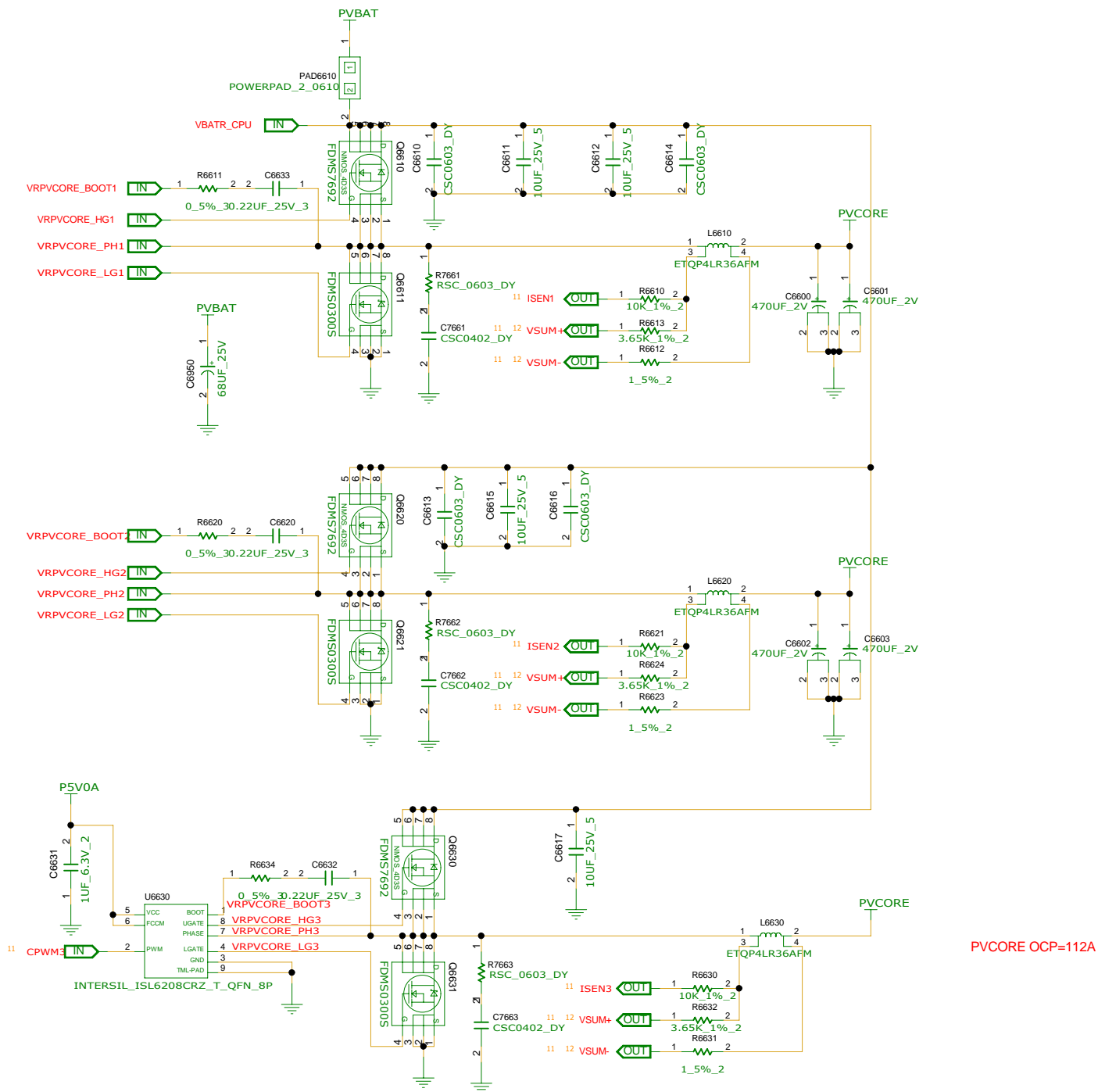
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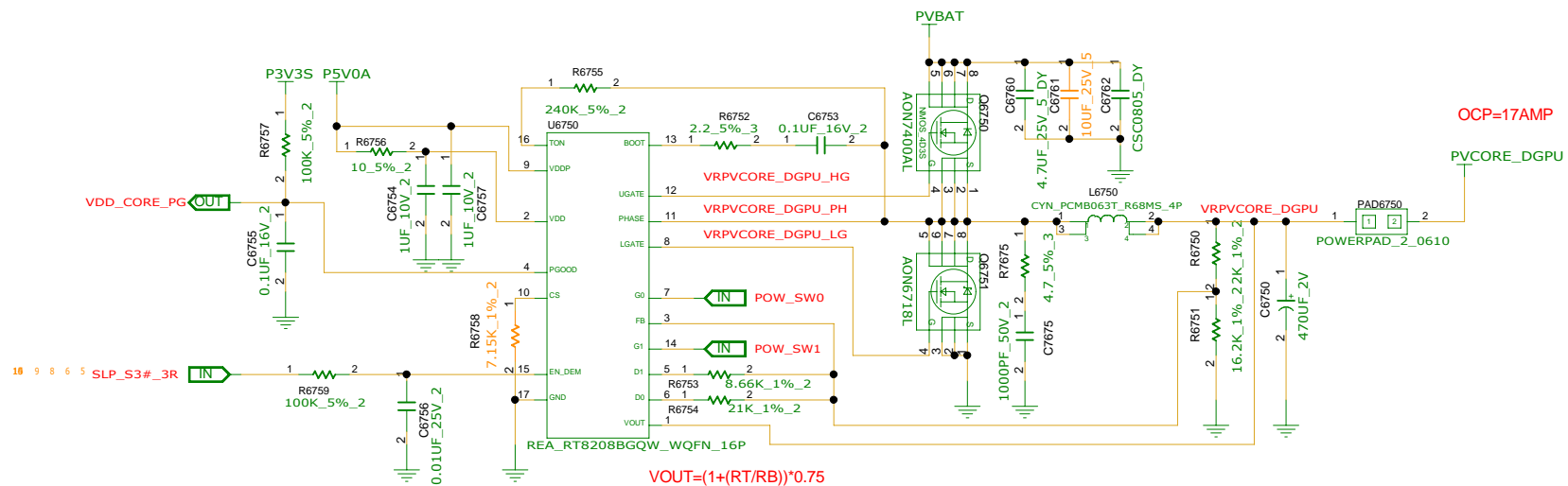


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TITLE CLAVIN DIS SYSTEM POWER(PVCORE)			
SIZE A3	CODE CS	DOC NUMBER 1310A24700-0-ALG	REV D
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PVCORE OCP=112A

INVENTEC			
TITLE CLAVIN DIS SYSTEM POWER(PVCORE)			
SIZE A3	CODE CS	DOC NUMBER 1310A24700-0-ALG	REV D
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VOUT	SW1	SW0
1.10	0	0
1.00	0	1
0.90	1	0
0.85	1	1

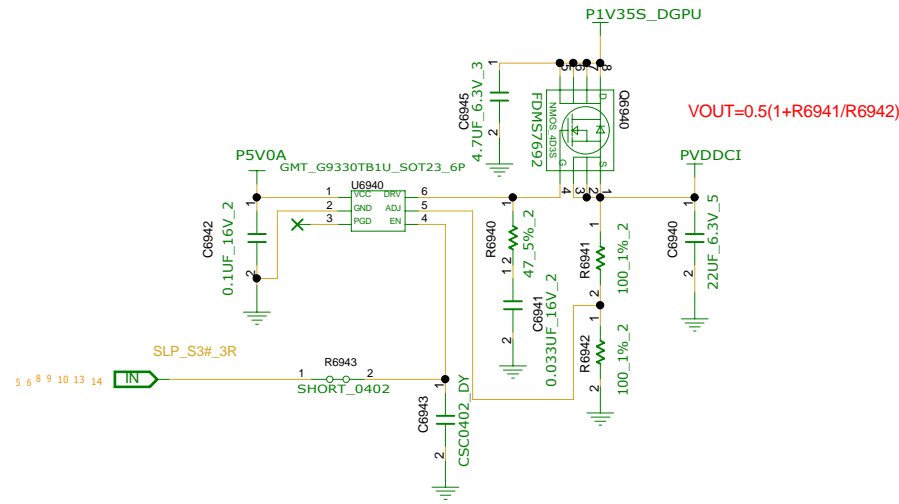
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SYSTEM POWER(PVCORE_DGPU)			
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SIZE A3	CODE CS	REV D	

CHANGE by EDI\_CHEN DATE 23-APR-2012

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INVENTEC

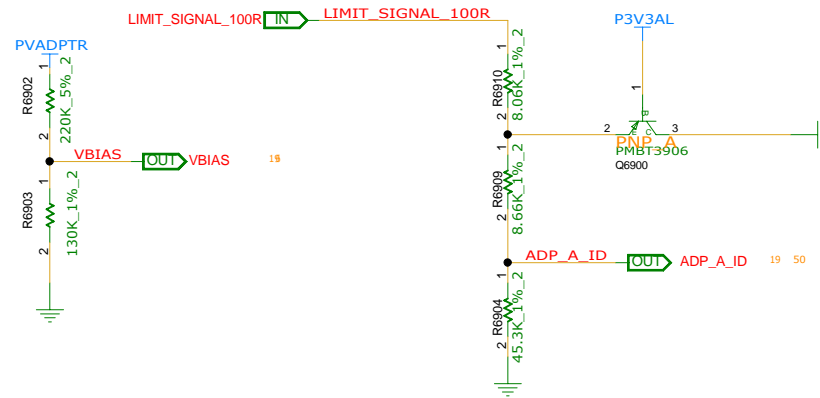
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SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A24700-0-ALG	D

CHANGE by EDI CHEN DATE 23-APR-2012

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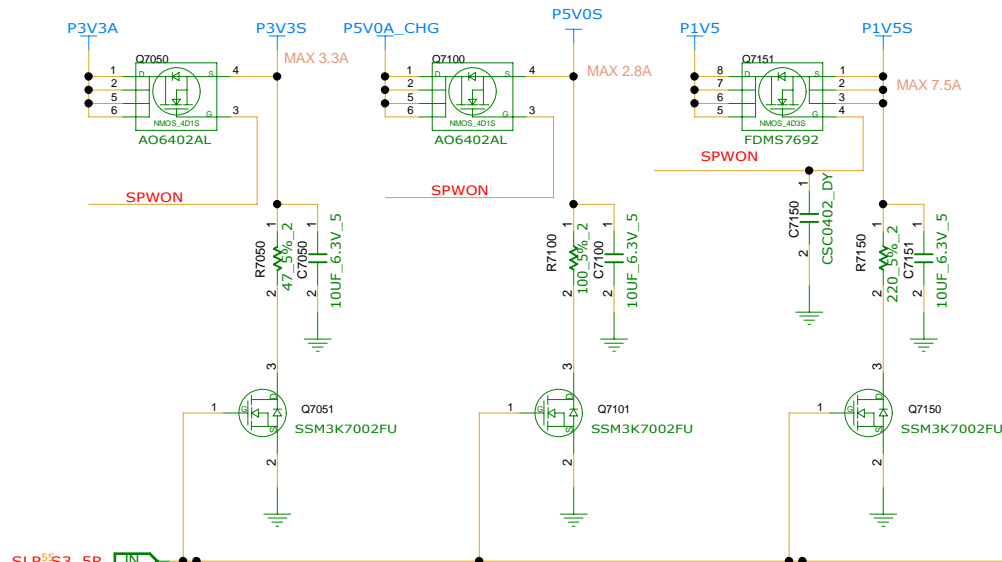
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CLAVIN_DIS HP_OCP			
SIZE A3	CODE CS	DOC NUMBER 1310A24700-0-ALG	REV D
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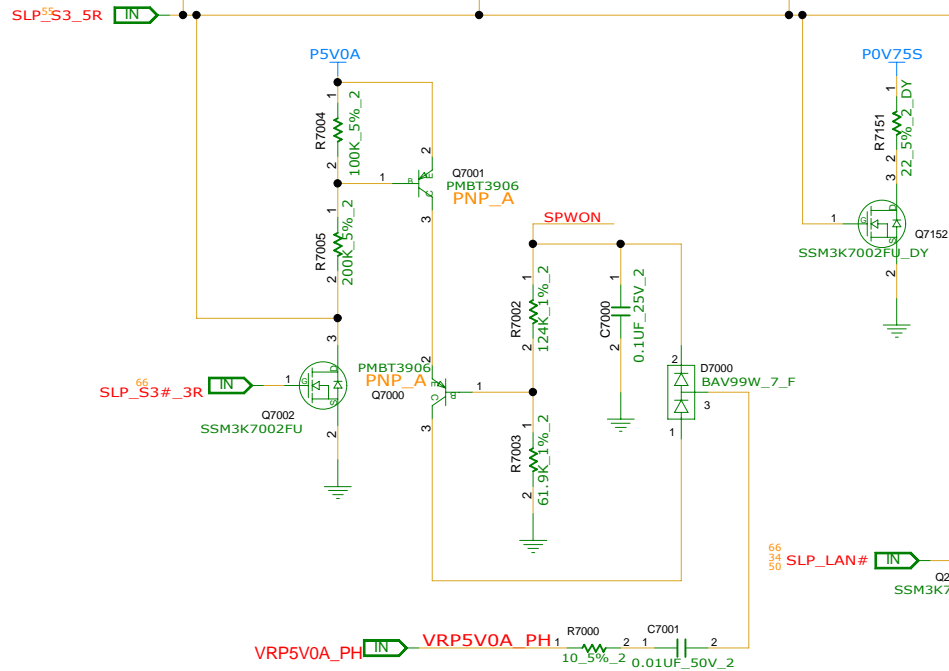
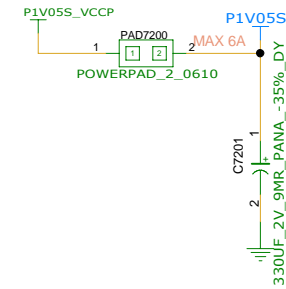
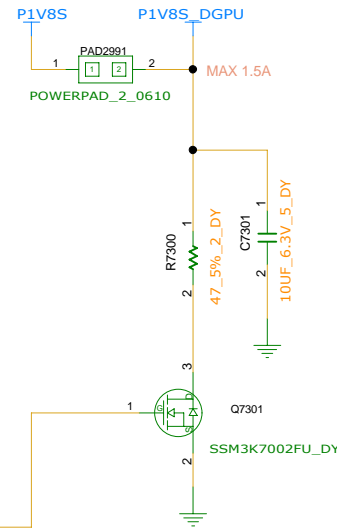
CHANGE by EDI CHEN DATE 23-APR-2012

<http://sualaptop365.edu.vn> [www.vinafix.vn](http://www.vinafix.vn)

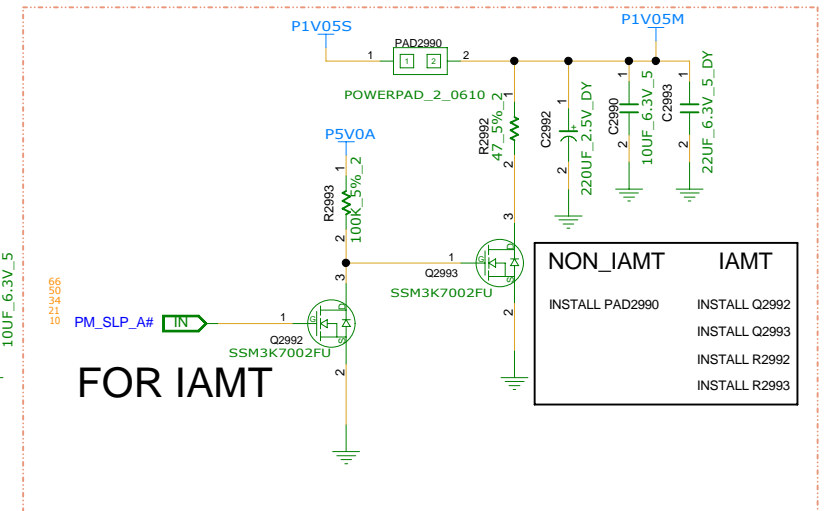
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FOR DGPU



REFERENCE NUMER : 2950~2999



FOR IAMT

INVENTEC

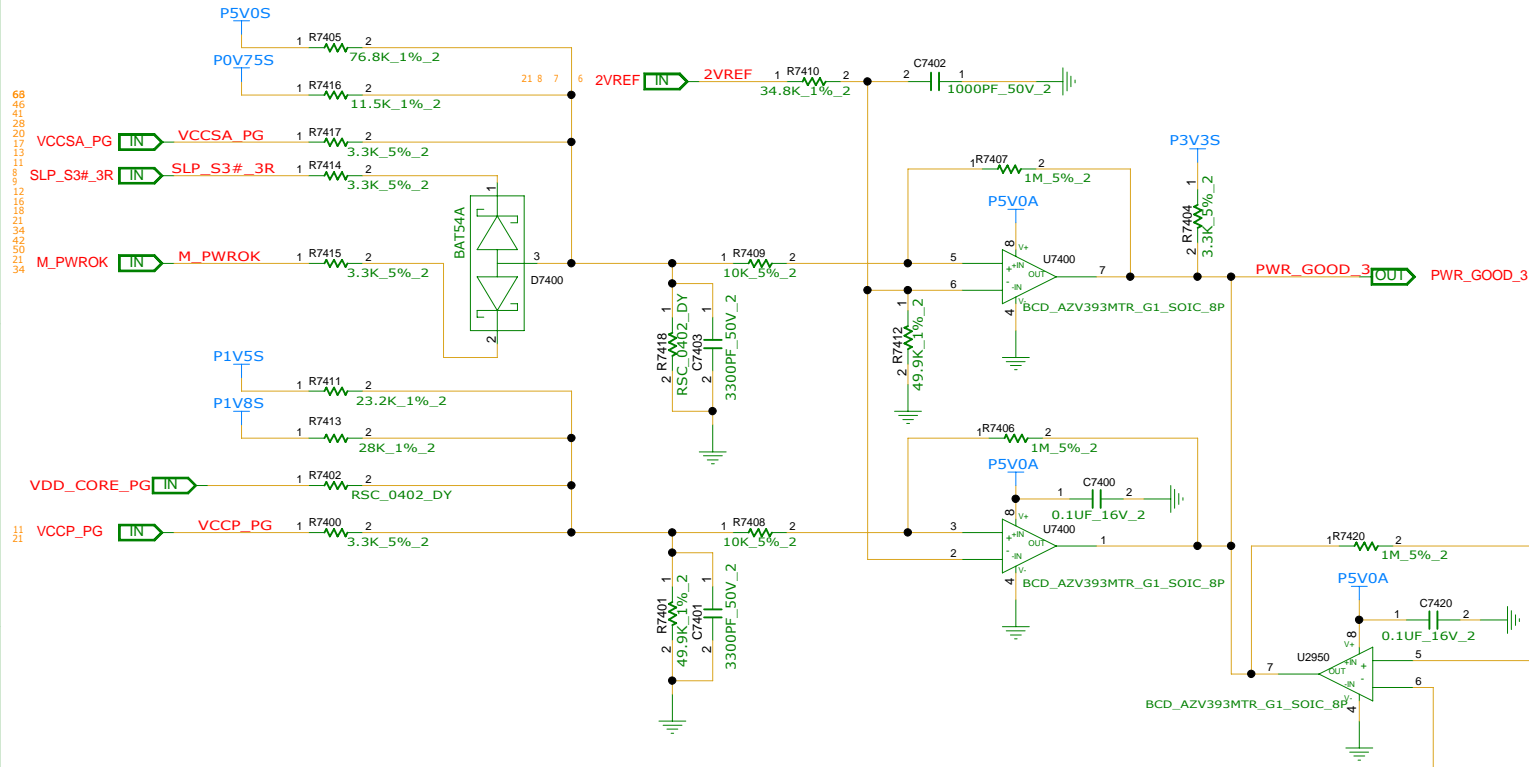
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CLAVIN_DIS POWER(SLEEP)			
DOC NUMBER			
1310A24700-0-ALG			
SIZE	CODE	REV	
A3	CS	D	

CHANGE by EDI\_CHEN DATE 23-APR-2012

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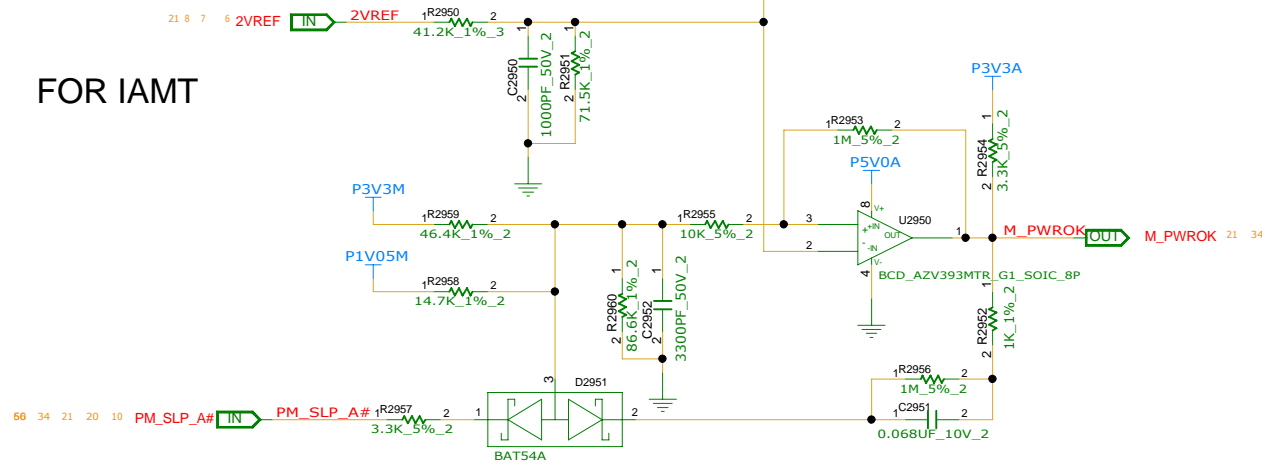
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REFERENCE NUMER : 7400~7450



FOR IAMT

REFERENCE NUMER : 2950~2999



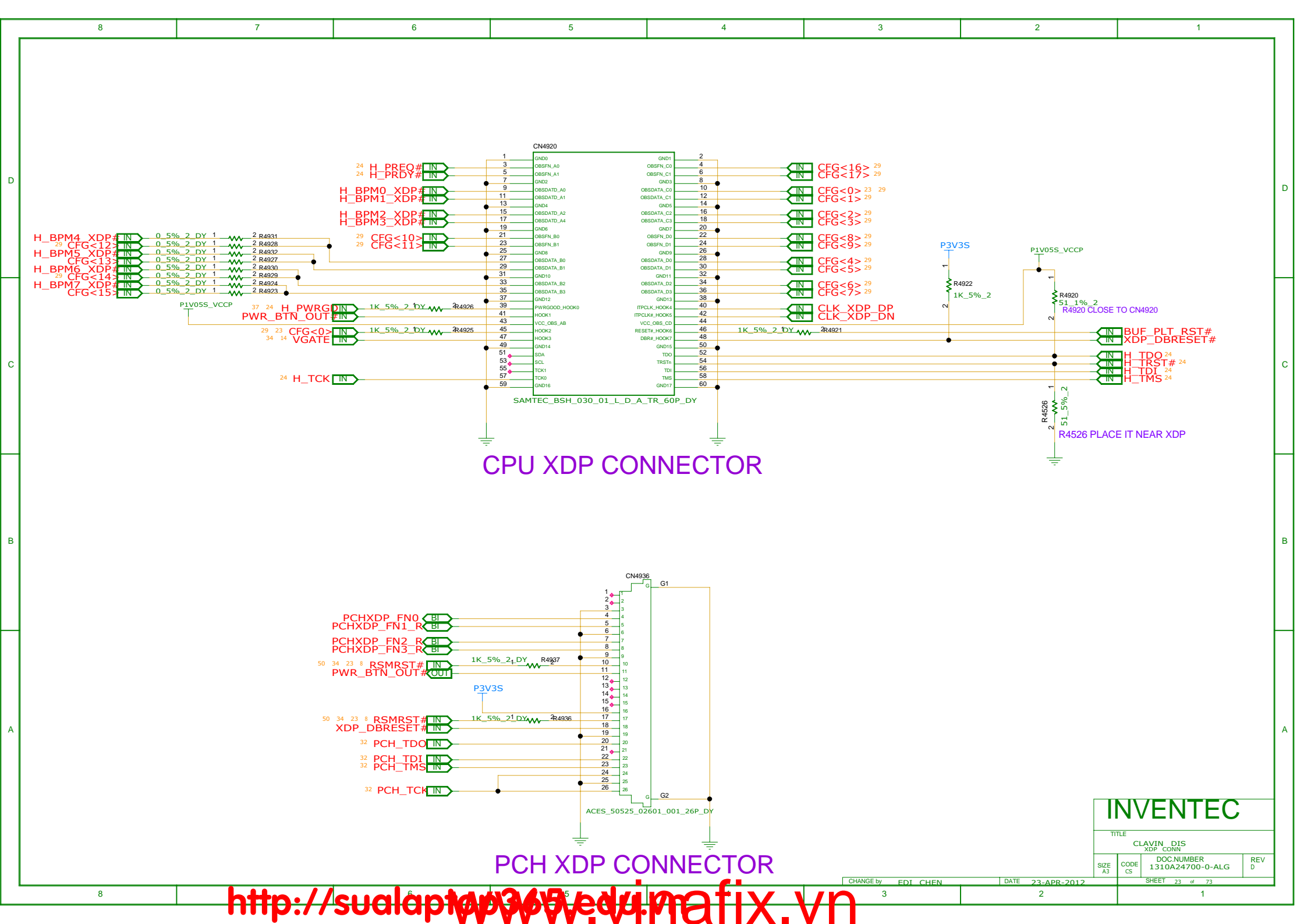
INVENTEC

TITLE			
CLAVIN DIS POWER(SEQUENCE)			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A24700-0-ALG	D
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<http://sualaptop365.edu.vn/matrix.vn>





## CPU XDP CONNECTOR

## PCH XDP CONNECTOR

INVENTEC

TITLE CLAVIN\_DIS XDP\_CONN

DOCNUMBER 1310A24700-0-ALG

REV D

SIZE A3 CODE CS SHEET 23 of 73

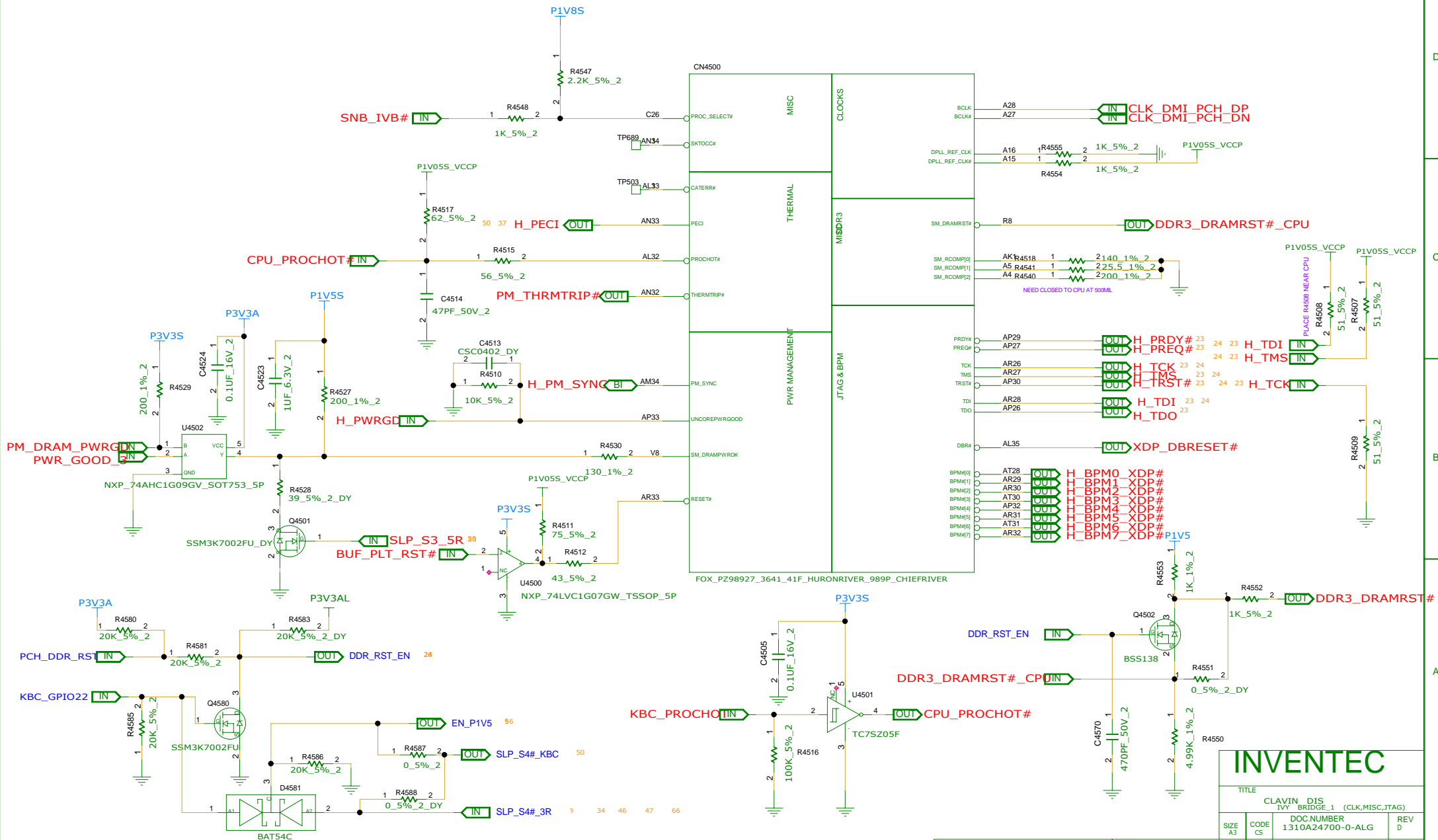
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DATE 23-APR-2012

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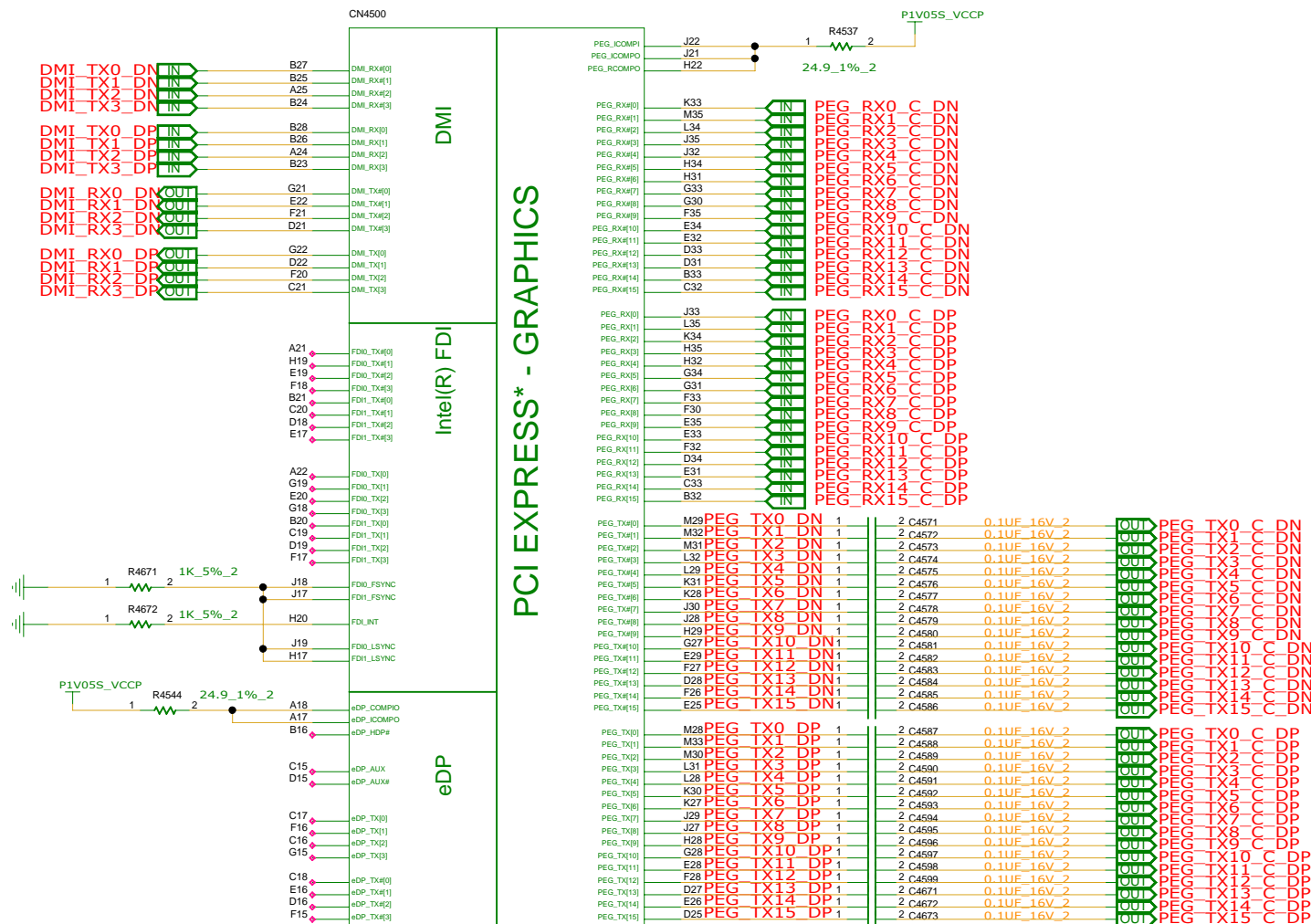


INVENTEC			
TITLE			
CLAVIN_DIS IVY BRIDGE 1 (CLK,MISC,JTAG)			
DOC NUMBER			
1310A24700-0-ALG			
REV D			
SIZE A3	CODE CS	SHEET 24 of 73	

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

ALL CLOSED TO CPU

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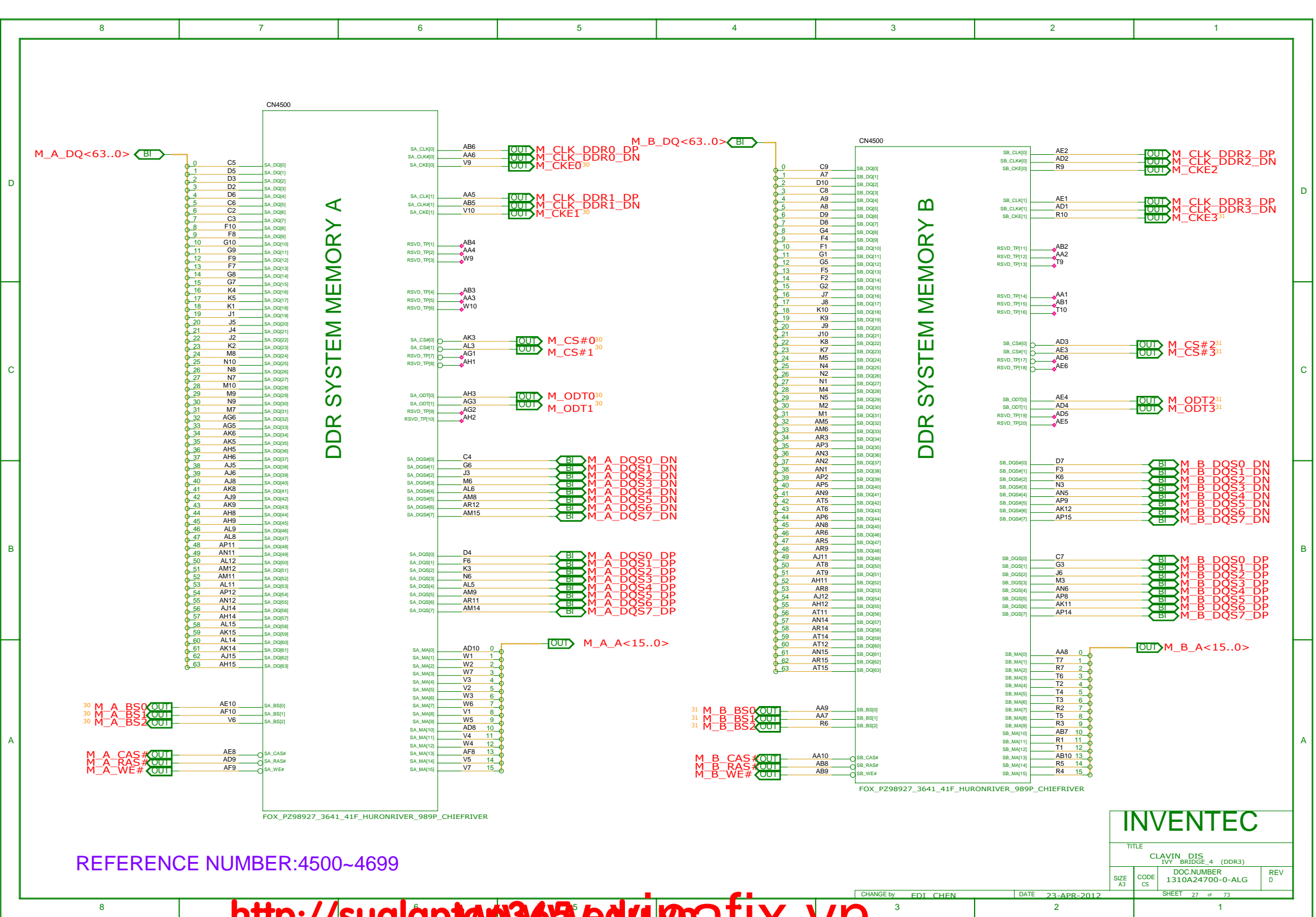
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CLAVIN_DJS IVY BRIDGE_3 (DMI,DP,PEG,FDI)			
SIZE A3	CODE CS	DOC NUMBER 1310A24700-0-ALG	REV D

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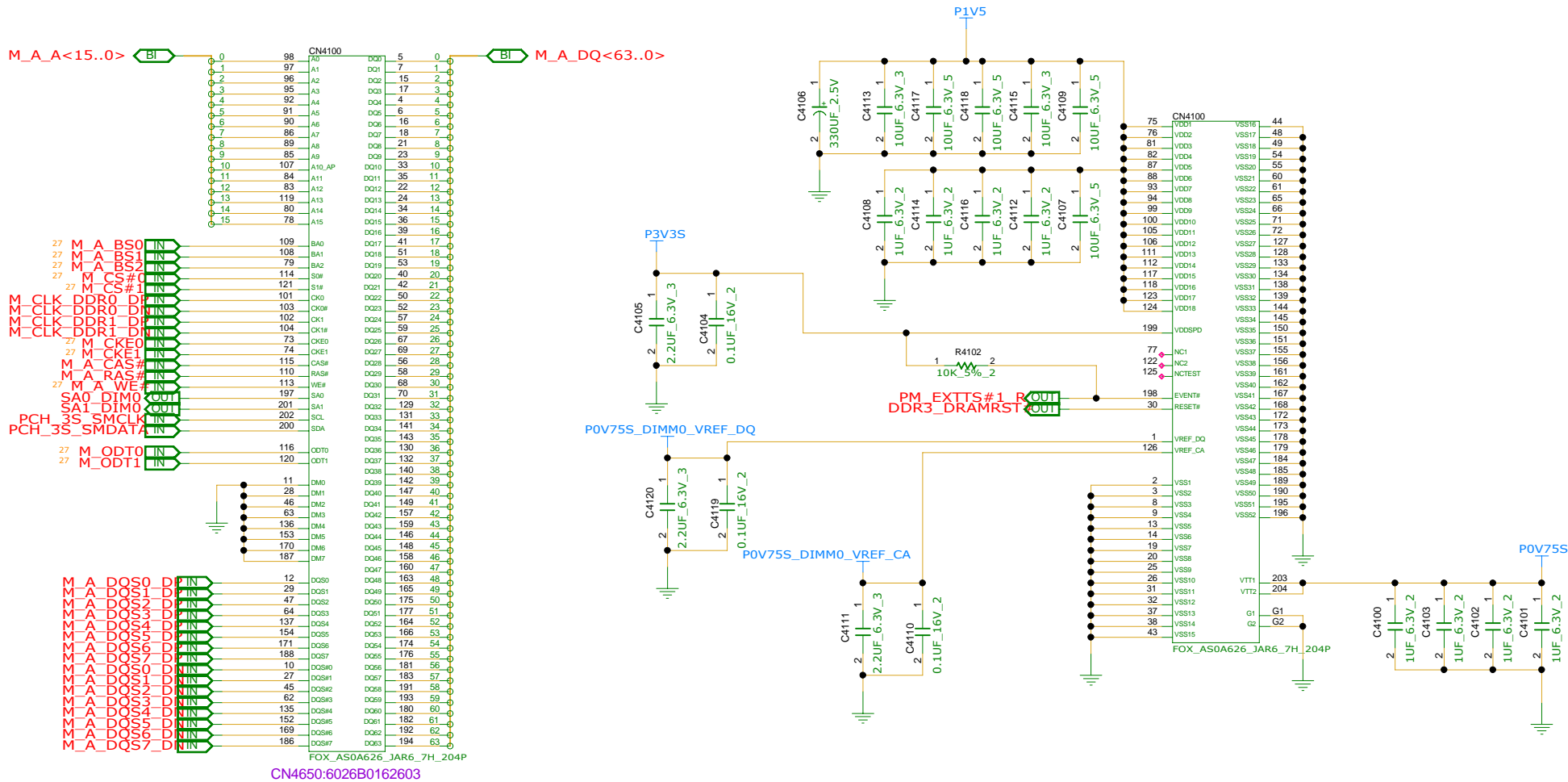


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CHANGE by	EDI CHEN	DATE	23-APR-2012
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INVENTEC

TITLE

CLAVIN\_DIS

DDR3\_SO-DIMM0

DOC NUMBER

1310A24700-0-ALG

REV

D

SIZE

A3

CODE

CS

SHEET

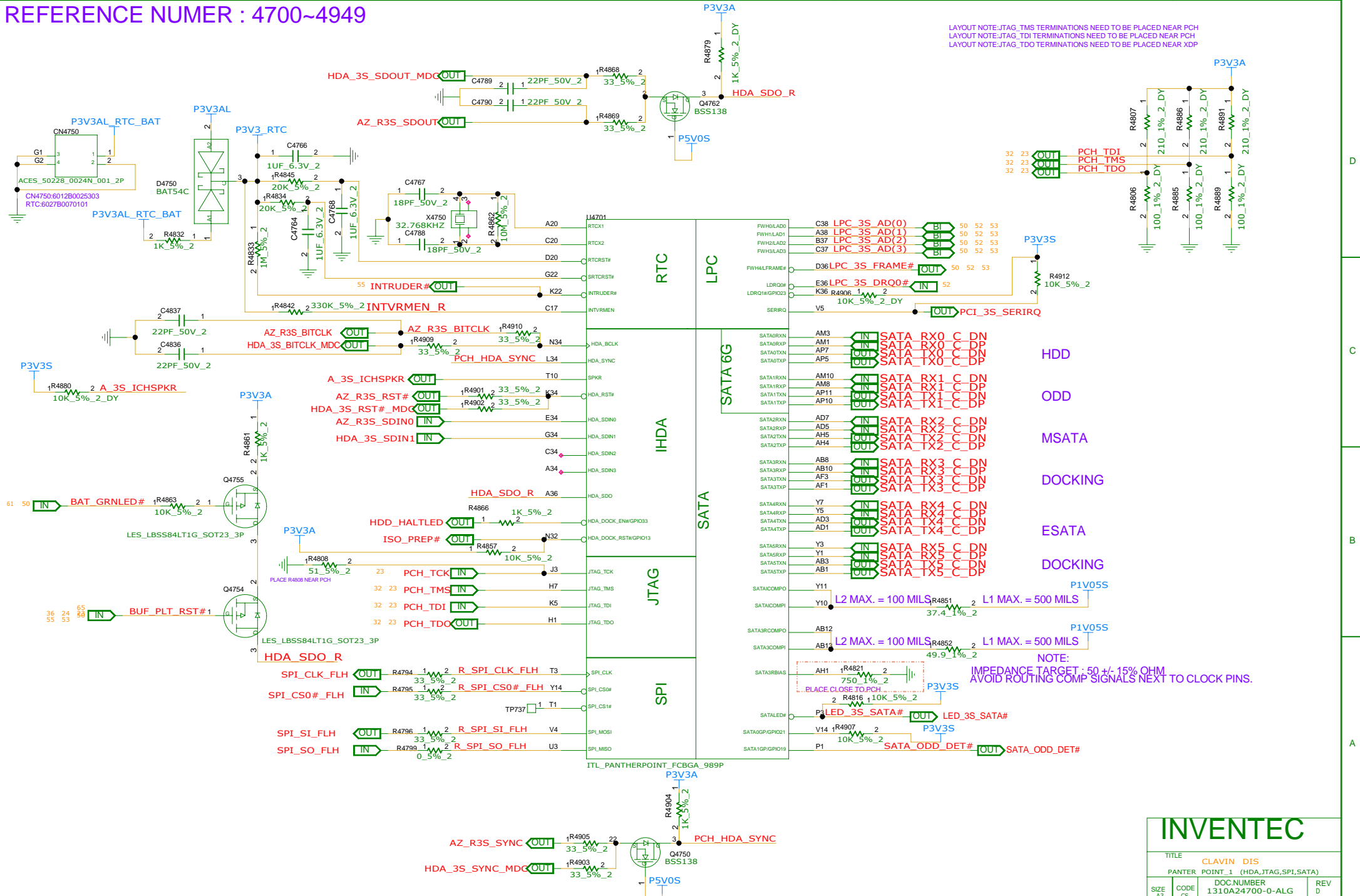
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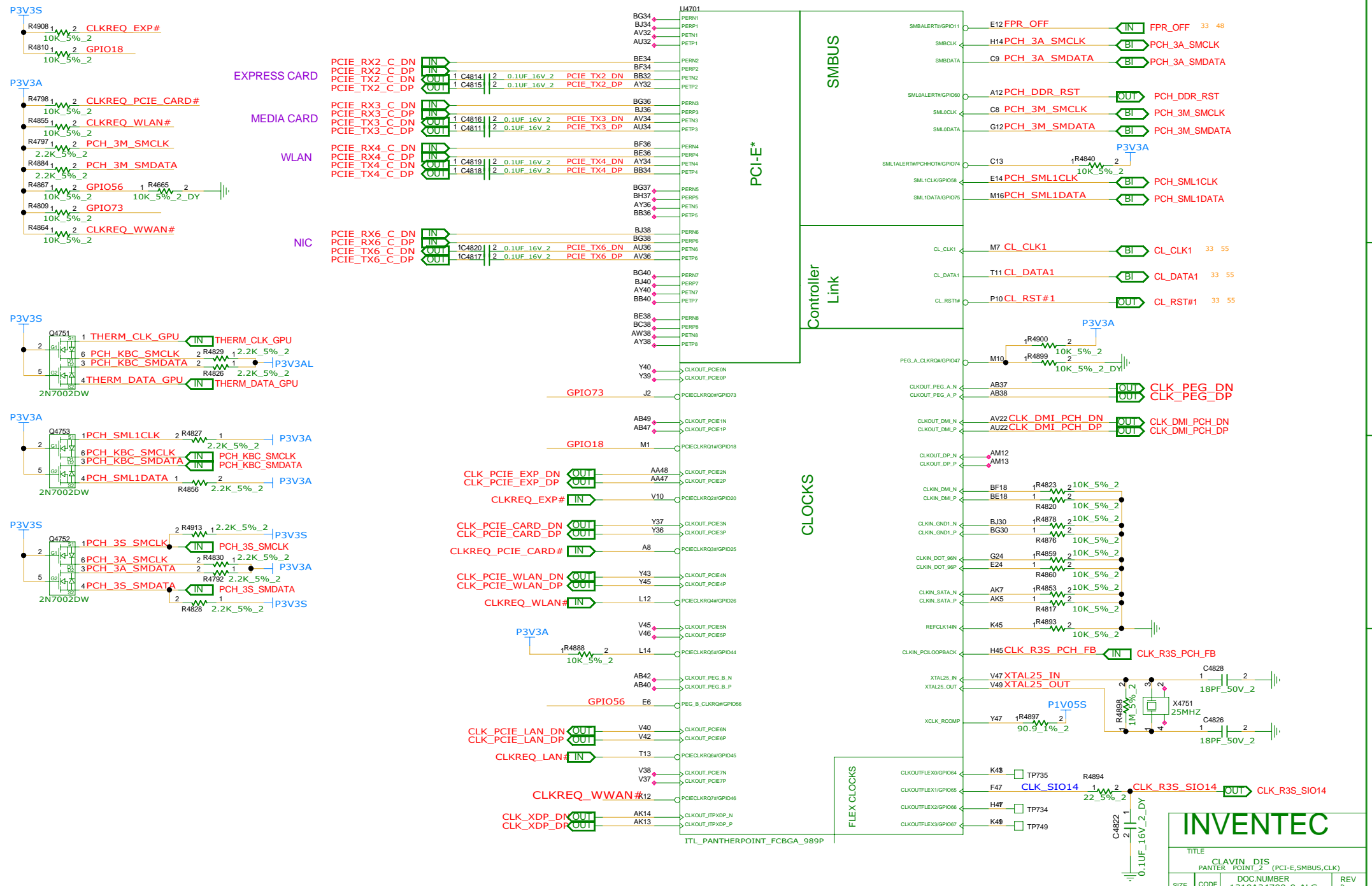








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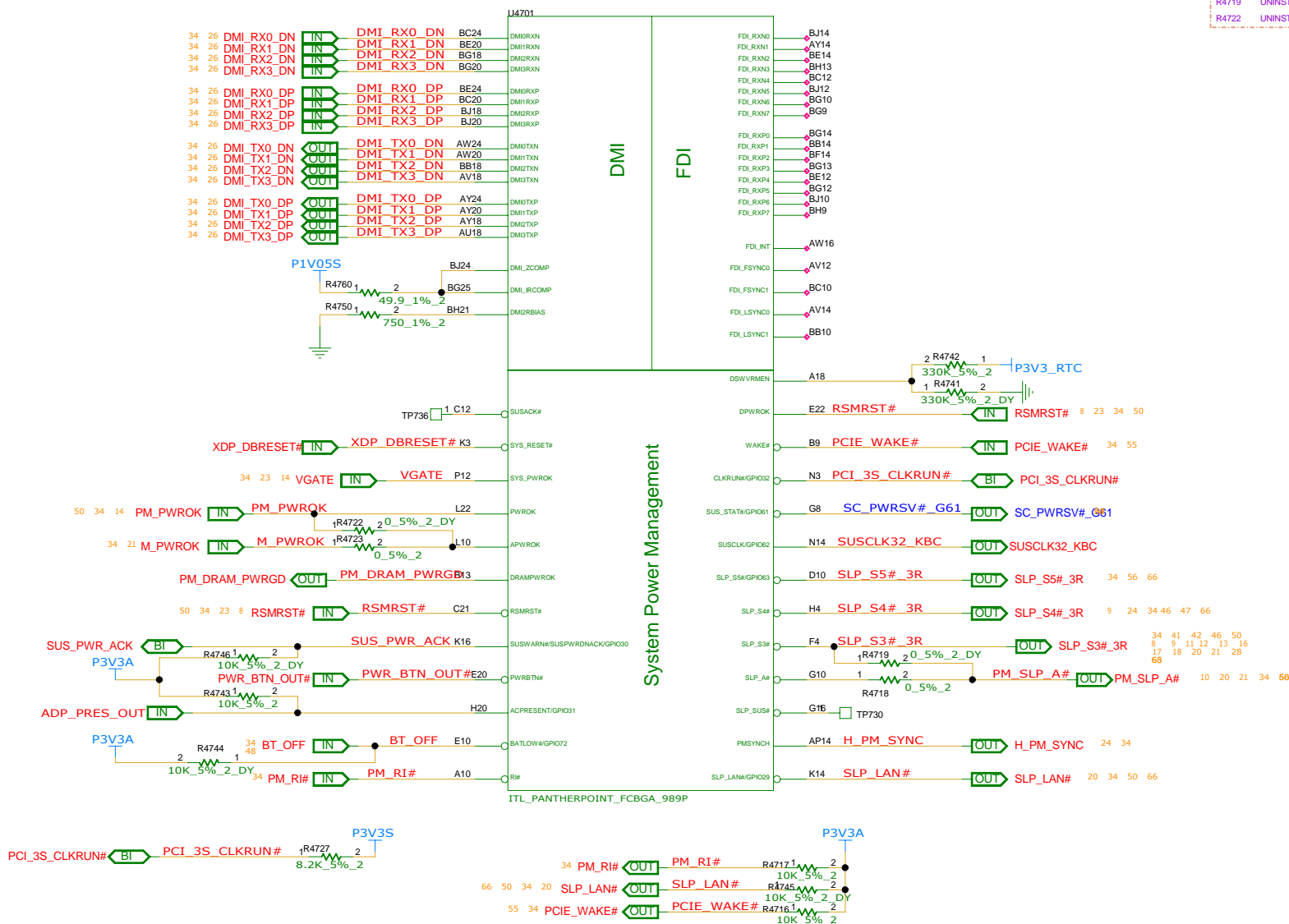


REFERENCE NUMBER : 4700~4949

NOTE:

- 1.SLP\_SUS AND SUSACK# ARE NC IF DSW IS NOT SUPPORTED
- 2.DPWROK SHOULD CONNECT TO RSMRST# IF DSW NOT SUPPORTED
- 3.PCH\_DPWROK PULL UP TO +V3S ENABLES DSW WUPPORT. NO INSTALL R5261 TO DISABLE DSW

	IAMT	NON-IAMT
R4718	INSTALL	UNINSTALL
R4723	INSTALL	UNINSTALL
R4719	UNINSTALL	INSTALL
R4722	UNINSTALL	INSTALL



INVENTEC

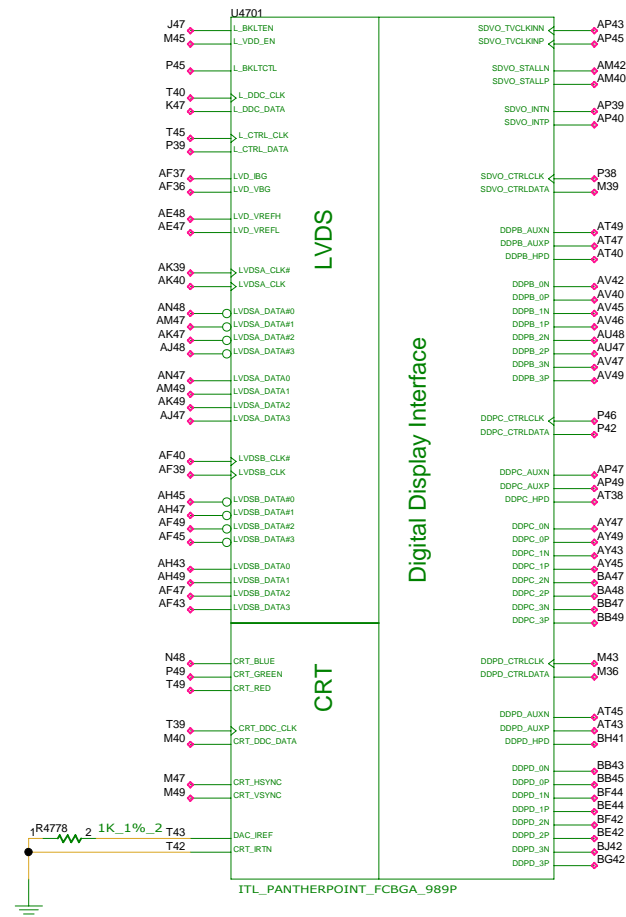
TITLE CLAVIN_DIS PANTHER_POINT_3 (DMI,FDI,GPIO)			
SIZE A3	CODE CS	DOCNUMBER 1310A24700-0-ALG	REV D

CHANGE by EDI\_CHEN DATE 23-APR-2012

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REFERENCE NUMER : 4700~4949



INVENTEC

TITLE  
CLAVIN DIS  
PANTHER POINT\_4 (LVDS,DDI)

DOCNUMBER  
1310A24700-0-ALG

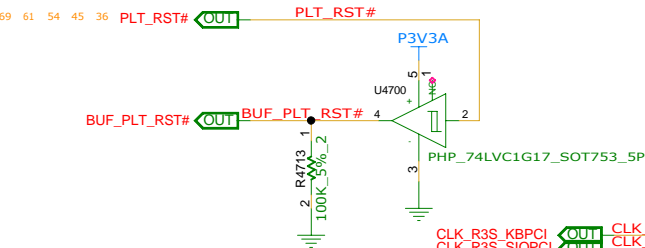
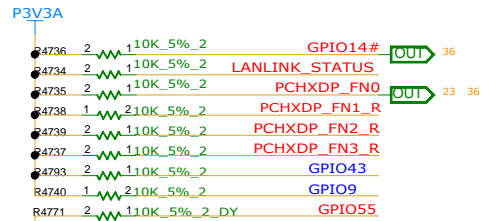
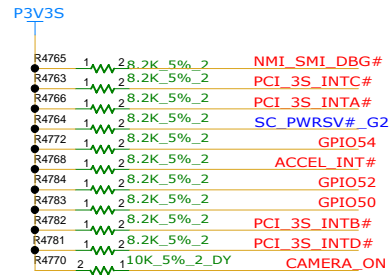
REV  
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CHANGE by EDI CHEN DATE 23-APR-2012

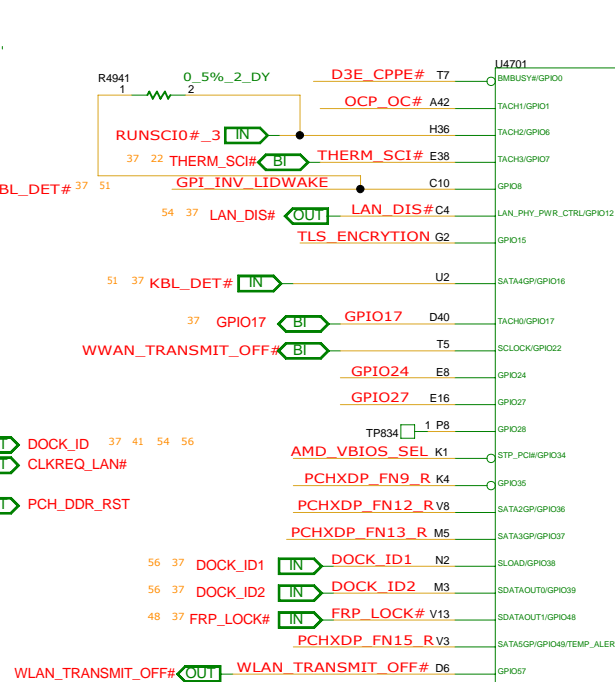
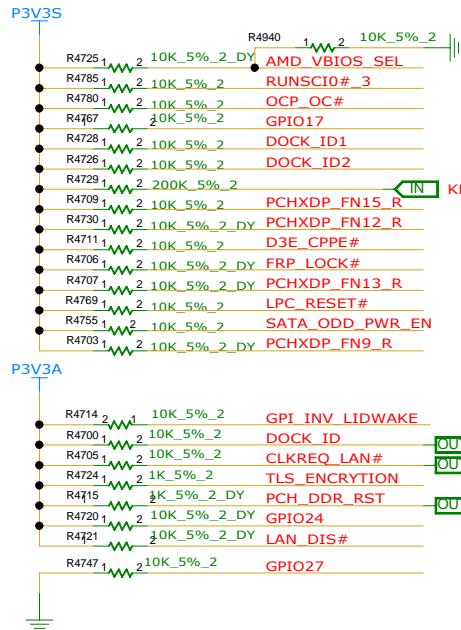
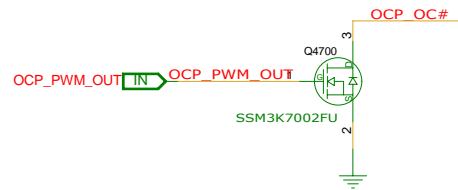
<http://sualaptop365.edu.vn> [www.vinafix.vn](http://www.vinafix.vn)

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# REFERENCE NUMER : 4700~4949

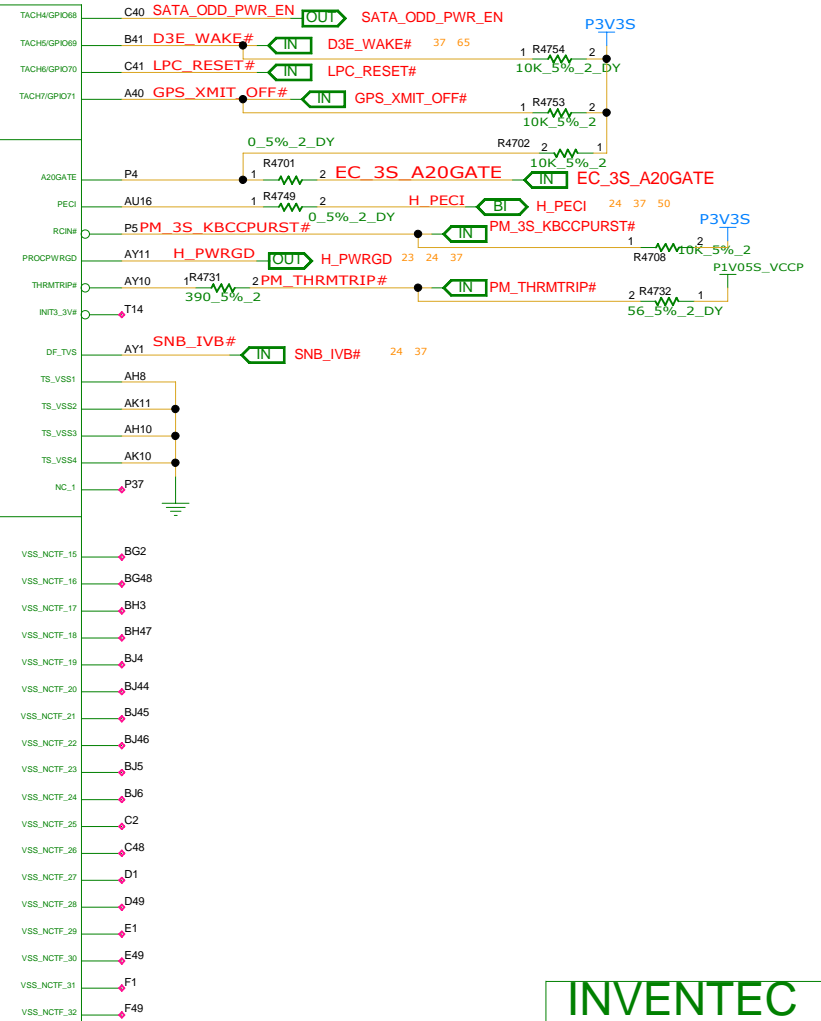
Hynix	install	un-install
New die	R4725	R4940
Old Die	R4940	R4725



GPIO

CPU/MISC

NCTF

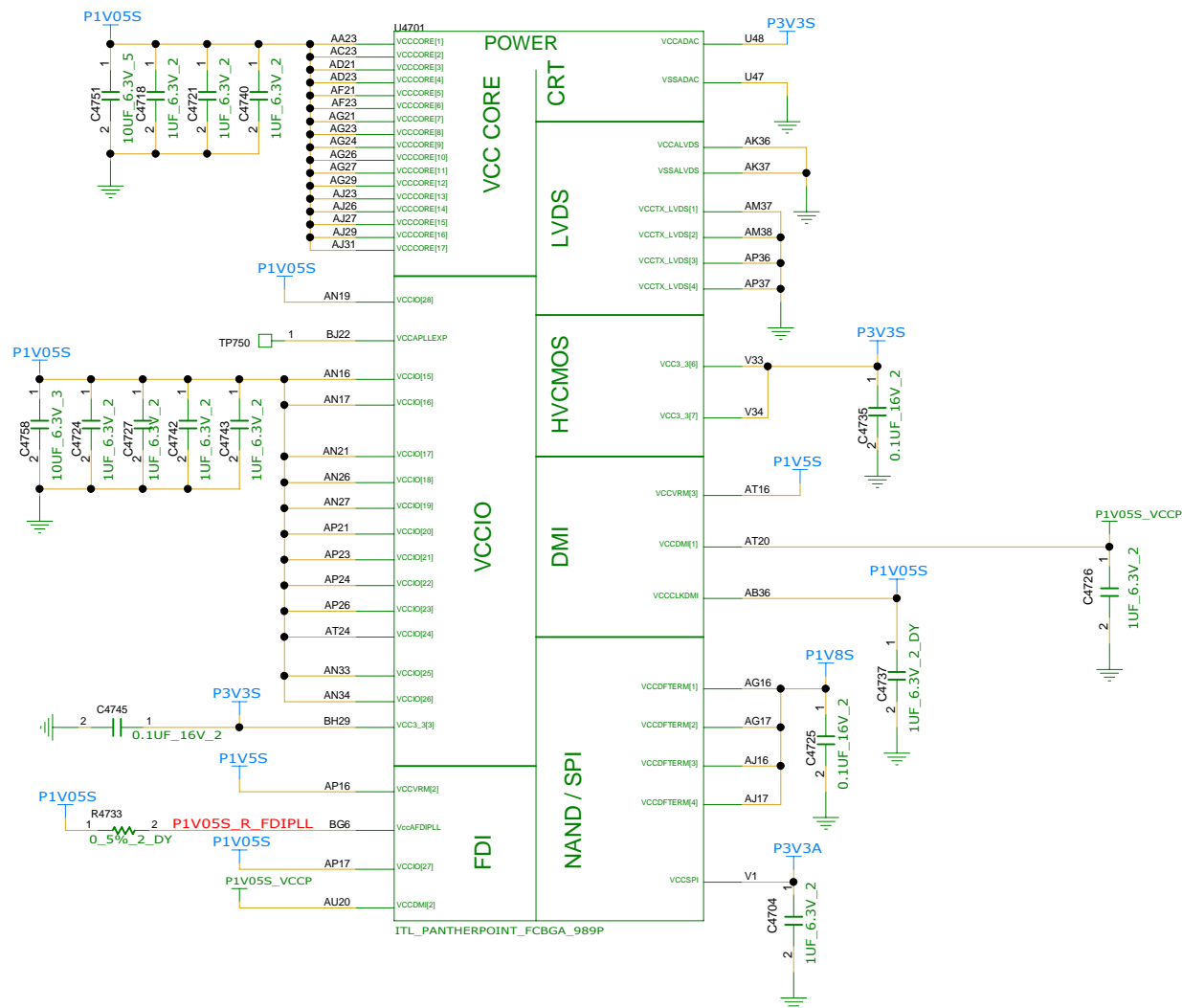


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TITLE CLAVIN DIS PANTER POINT_6 (GPIO,VSS_NCTF,RSVD)			
SIZE A3	CODE CS	DOC NUMBER 1310A24700-0-ALG	REV D
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<http://sualaptop365.edu.vn/mafix.vn>

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			

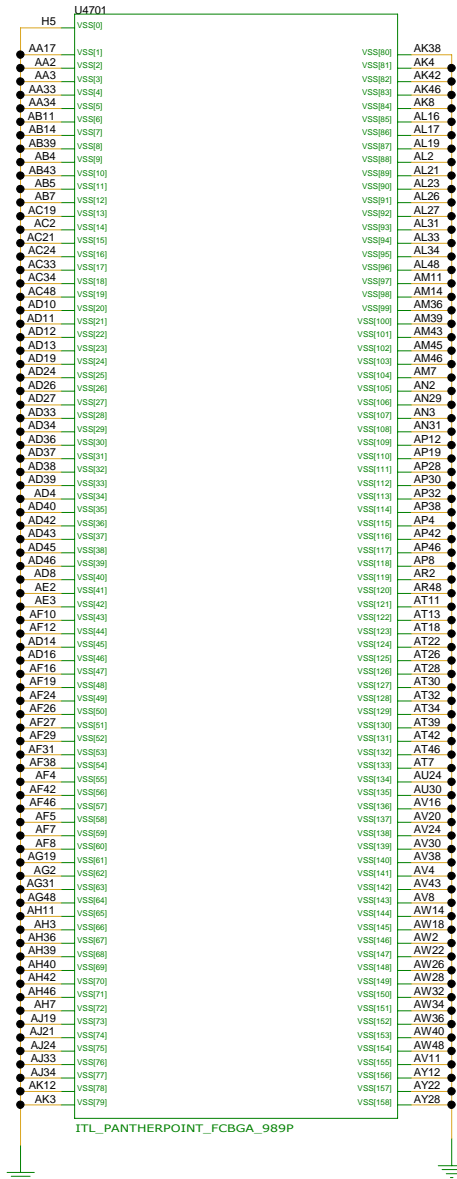
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<http://sualaptop365.edu.vn/mafix.vn>



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REFERENCE NUMBER : 4700~4949



INVENTEC

TITLE

CLAVIN DIS

PANTHER POINT 9 (GND)

DOC NUMBER

1310A24700-0-ALG

REV D

SIZE A3

CODE CS

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CHANGE by

EDT CHEN

DATE

23-APR-2012

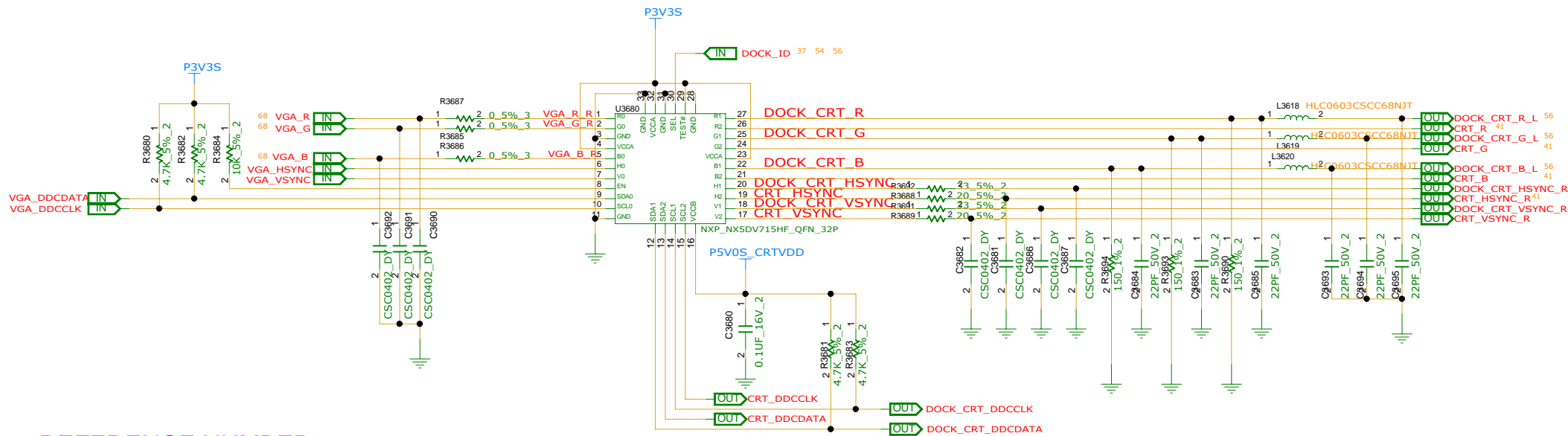
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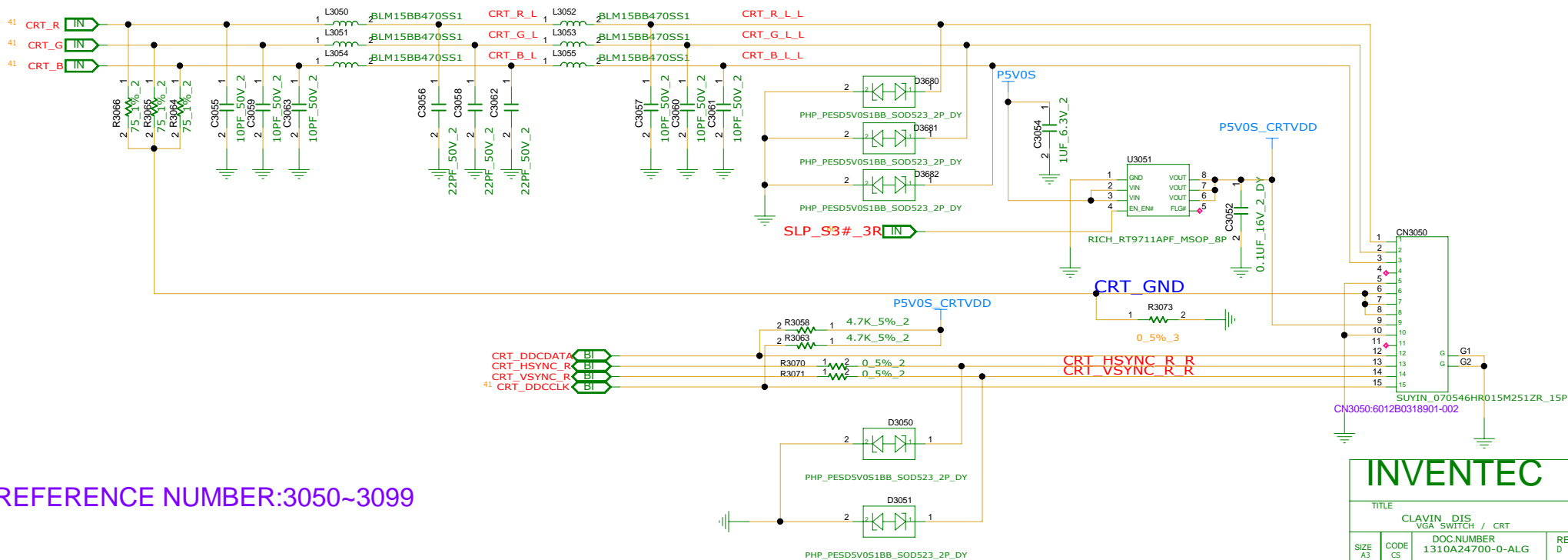
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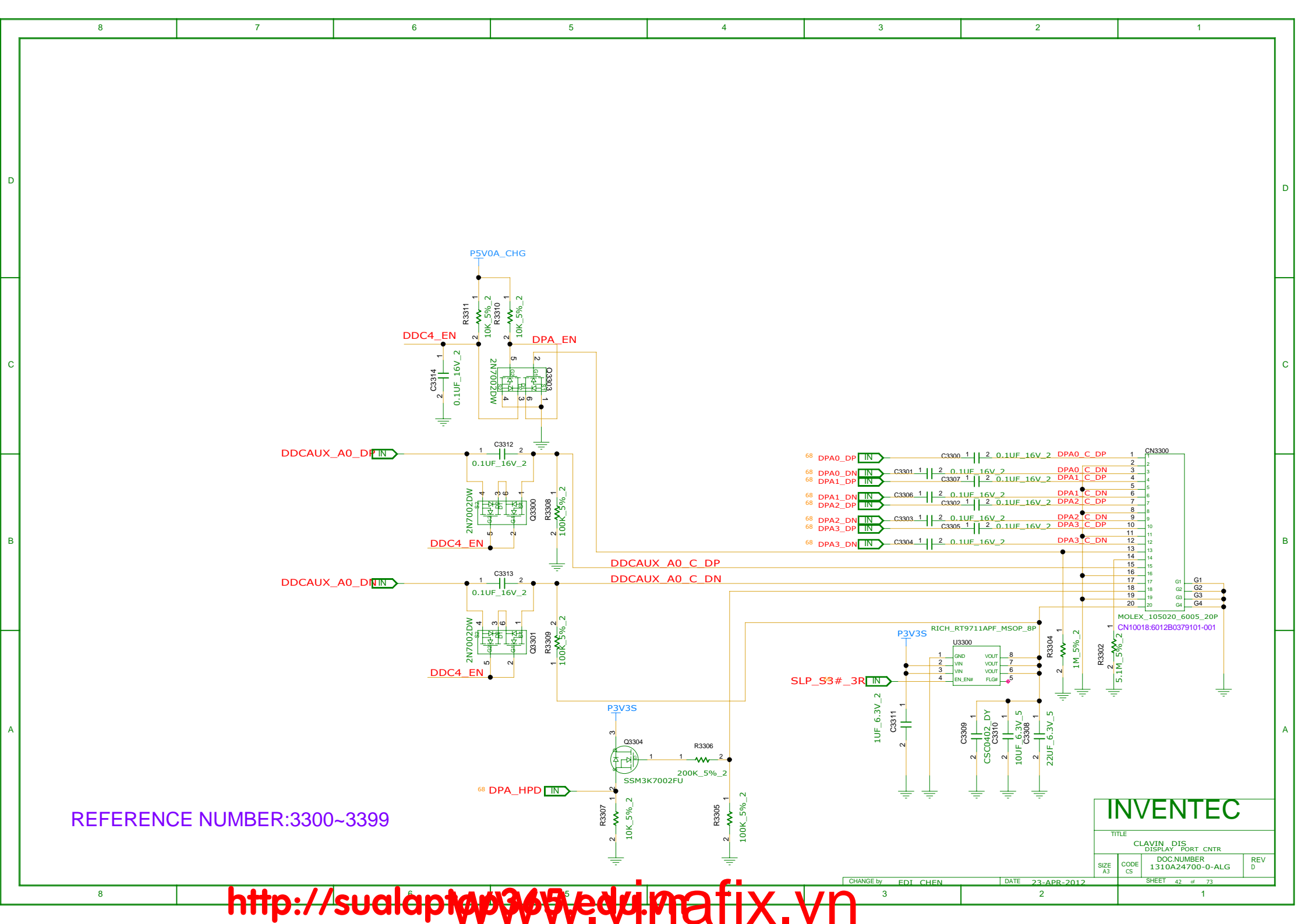


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REFERENCE NUMBER:3050~3099

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TITLE			
CLAVIN_DIS			
VGA SWITCH / CRT			
DOC NUMBER			
1310A24700-0-ALG			
REV			
D			
SIZE	CODE	SHEET	
A3	CS	41	73



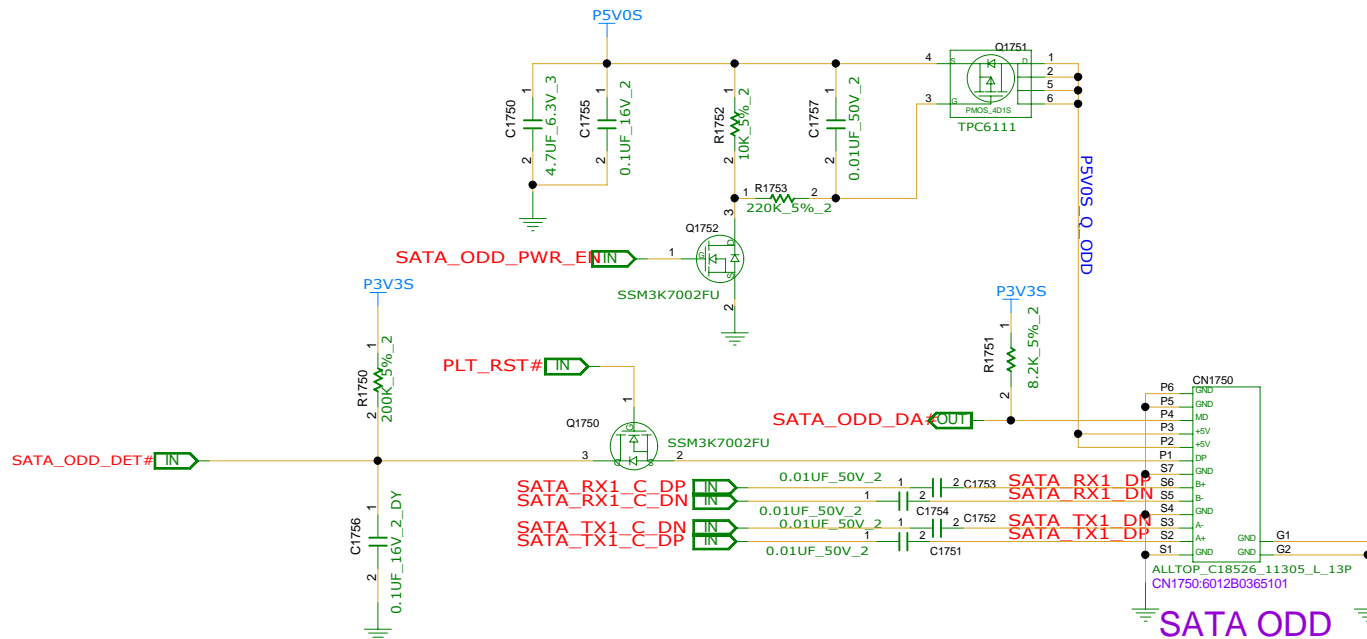
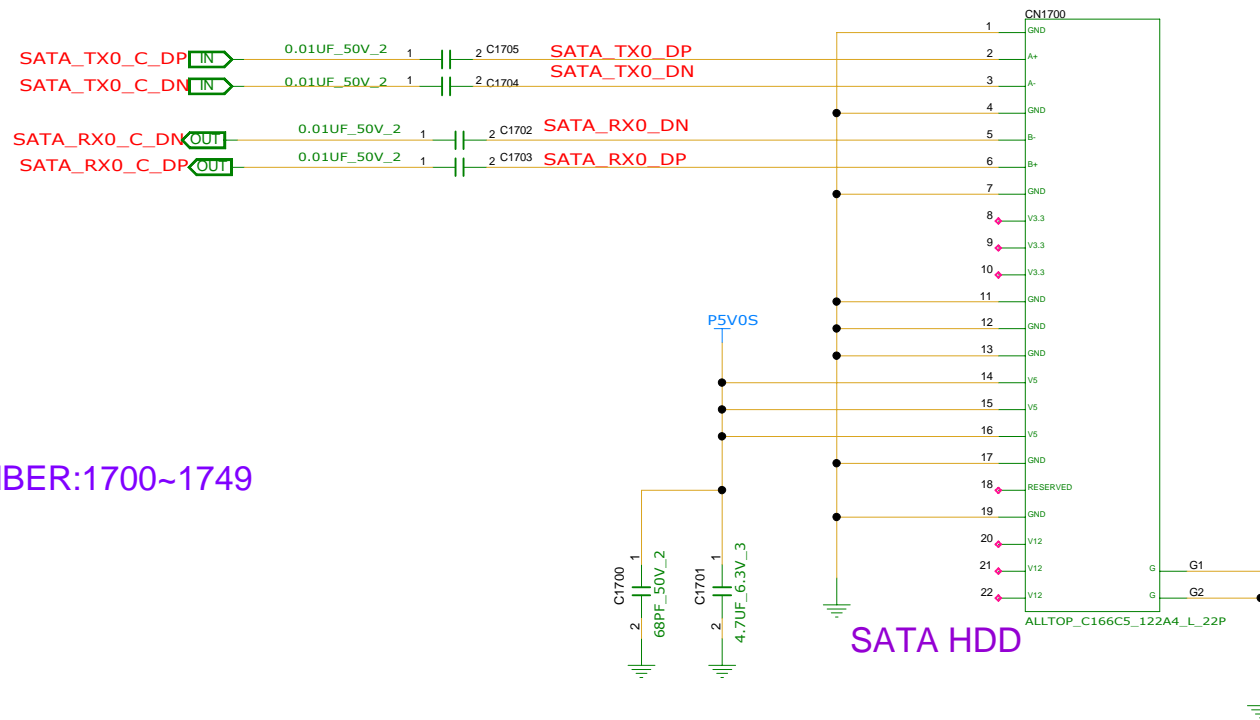


BLANK

REFERENCE NUMBER:3400~3499

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

REFERENCE NUMBER:1700~1749

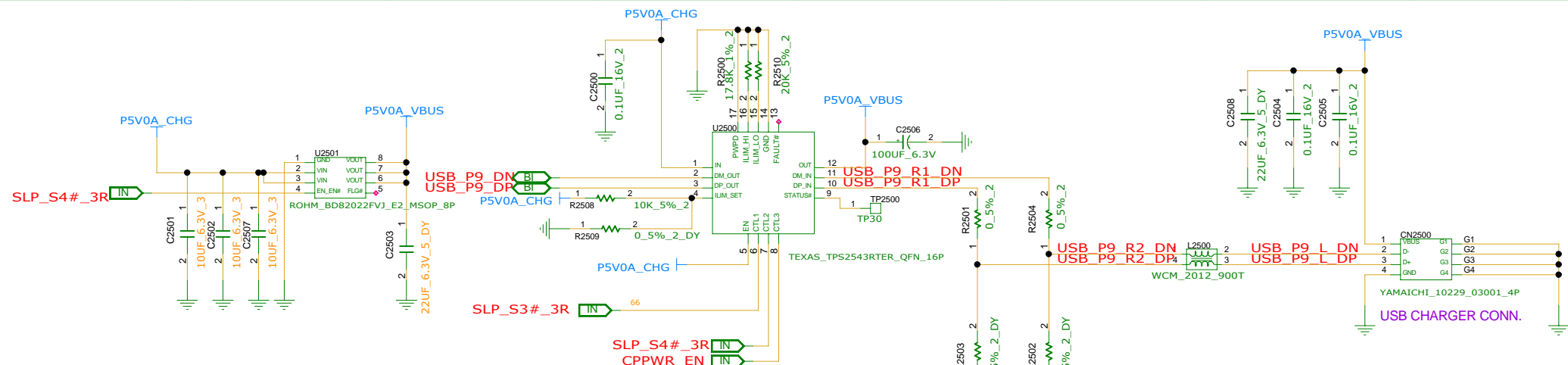


REFERENCE NUMBER:1750~1799

INVENTEC			
TITLE			
CLAVIN DIS SATA HDD & ODD CNTR			
DOC NUMBER			
1310A24700-0-ALG			
REV D			
SIZE A3	CODE CS	SHEET 45 of 73	

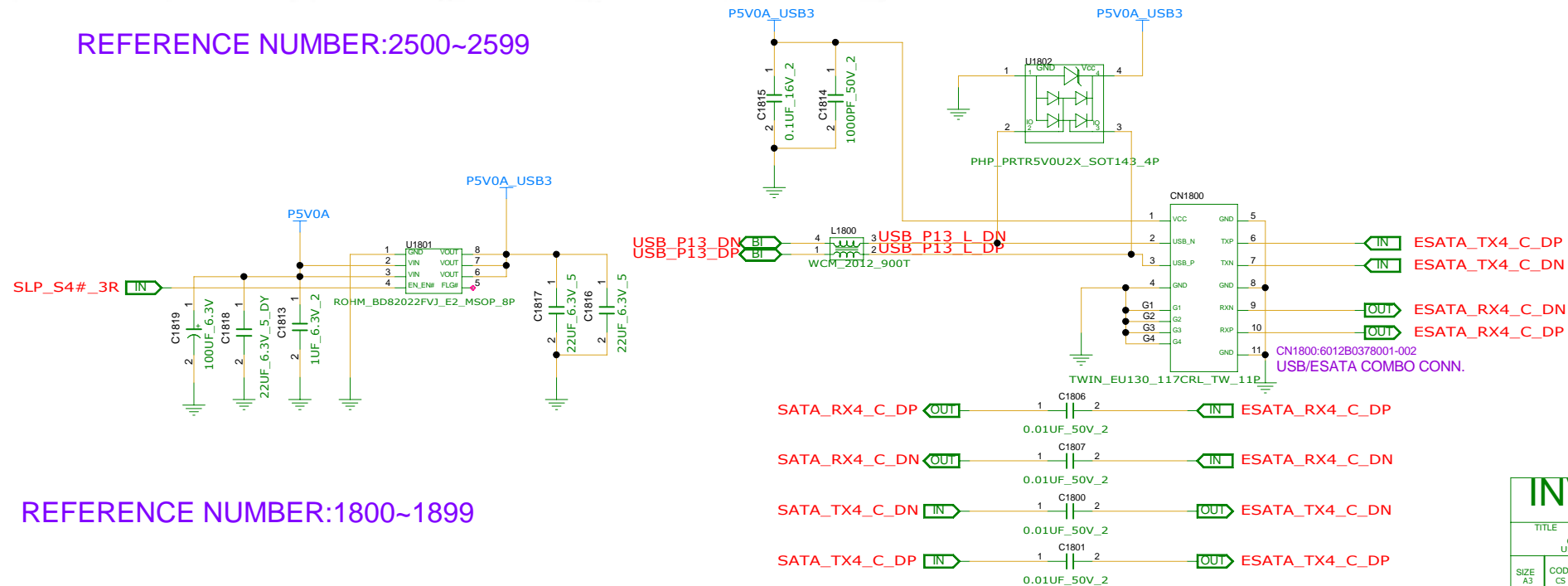
CHANGE by EDI CHEN DATE 23-APR-2012

<http://sualaptop365.edu.vn/mafix.vn>



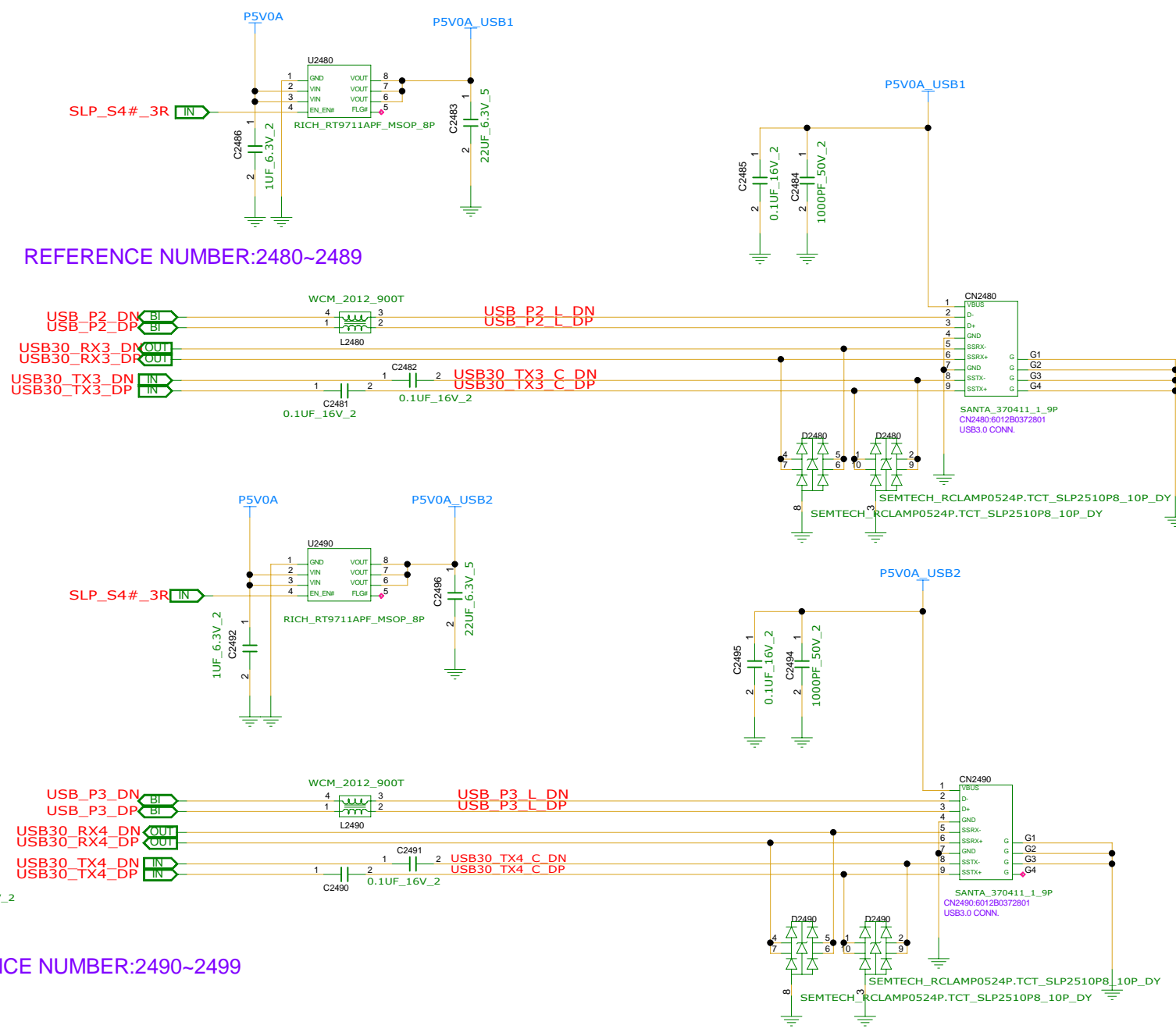
	R2510	R2508	R2509	R2511	R2512
TPS2543	20K	10K	NI	0	NI
TPS2540/A	NI	NI	0	0	NI
PI5USB2543	NI	NI	0	NI	0

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				

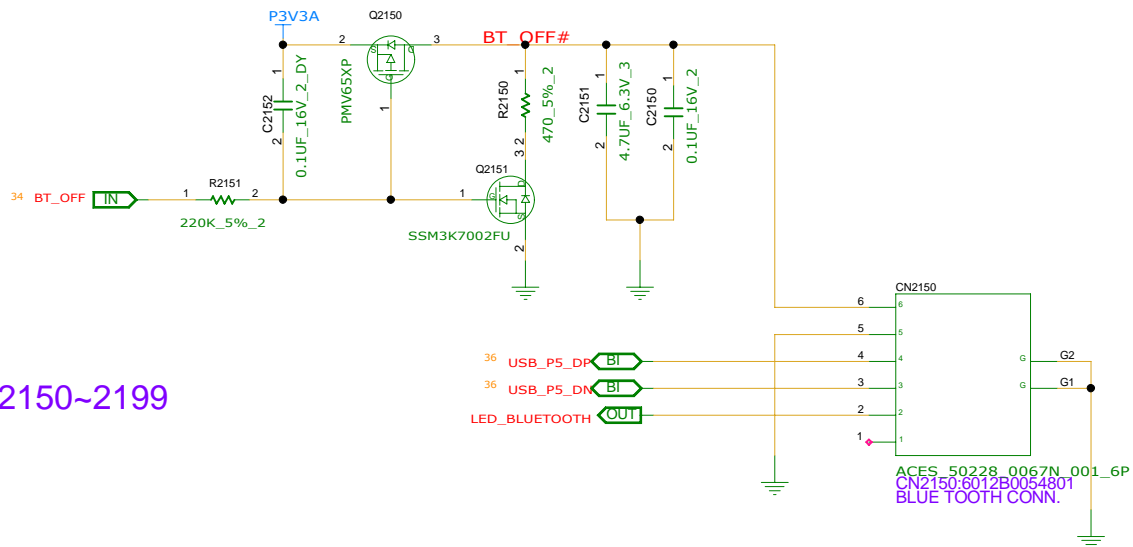


REFERENCE NUMBER:2480~2489

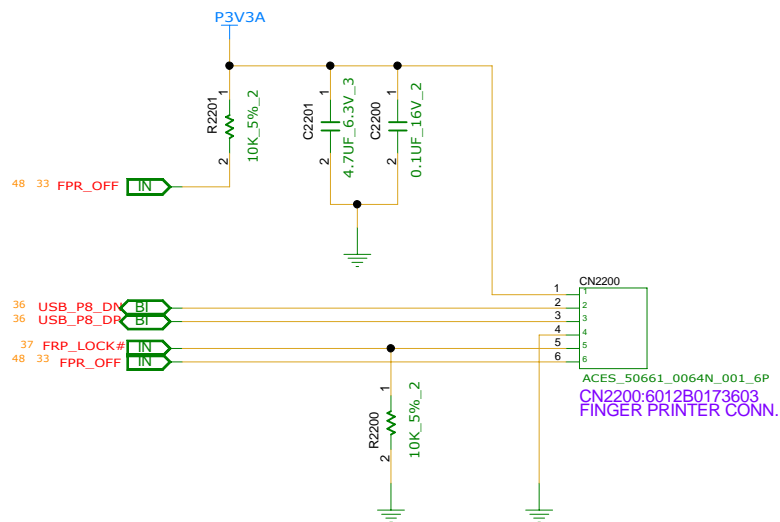
REFERENCE NUMBER:2490~2499

INVENTEC			
TITLE			
CLAVIN_DIS			
USB_CONN			
DOC NUMBER			
1310A24700-0-ALG			
REV			
D			
SIZE	CODE	DATE	
A3	CS	23-APR-2012	
CHANGE by		EDT_CHEN	
SHEET		47	of 73

REFERENCE:2150~2199



REFERENCE:2200~2249



INVENTEC

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

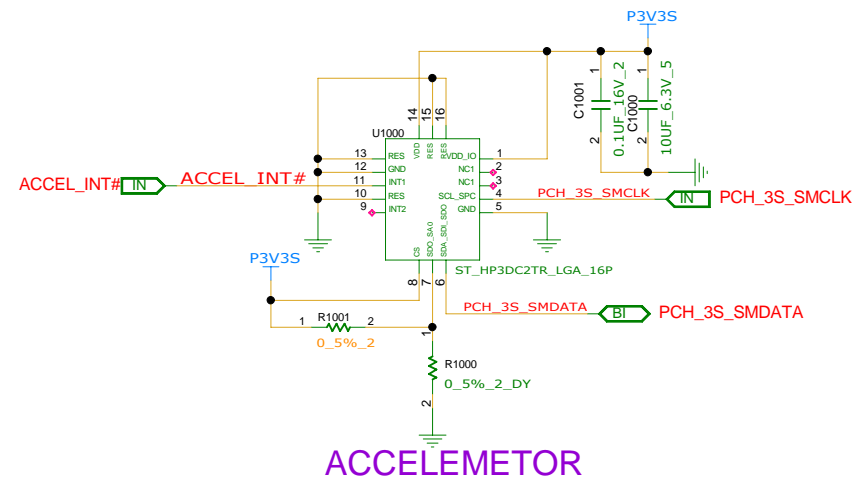
CHANGE by EDI CHEN

DATE 23-APR-2012

SHEET 48 of 73



REFERENCE NUMER : 1000~1099

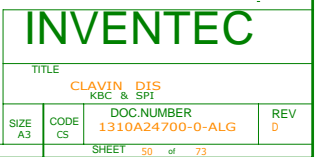


INVENTEC

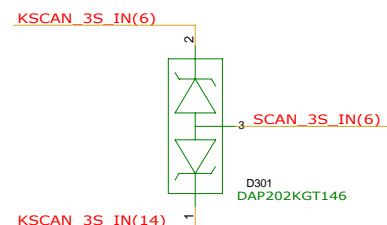
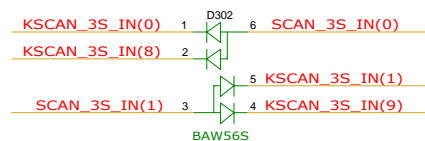
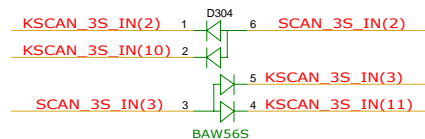
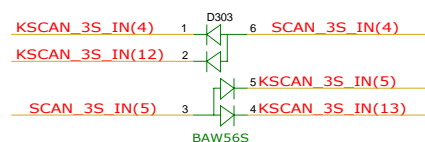
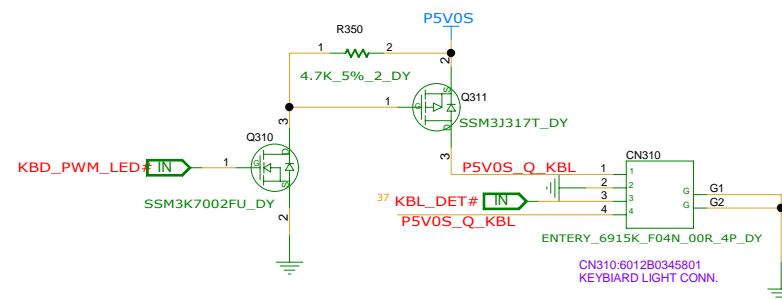
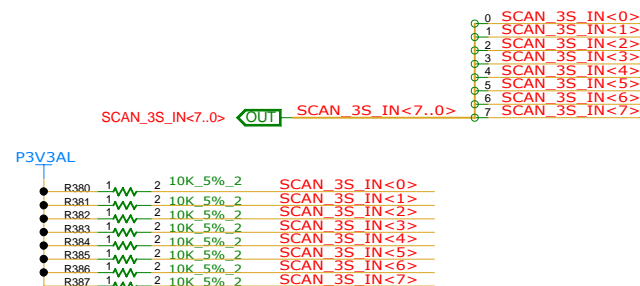
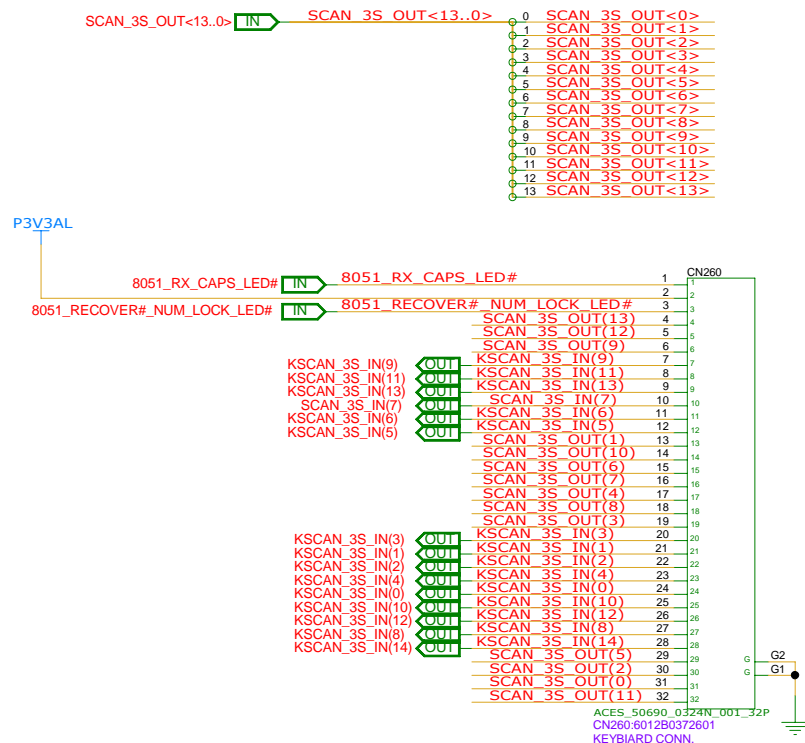
TITLE			
CLAVIN_DIS ACCELMETOR			
SIZE A3	CODE CS	DOCNUMBER 1310A24700-0-ALG	REV D
SHEET 49 of 73			

CHANGE by EDI CHEN DATE 23-APR-2012

<http://sualaptop365.edu.vn> [www.vinafix.vn](http://www.vinafix.vn)



# REFERENCE NUMER : 300~389



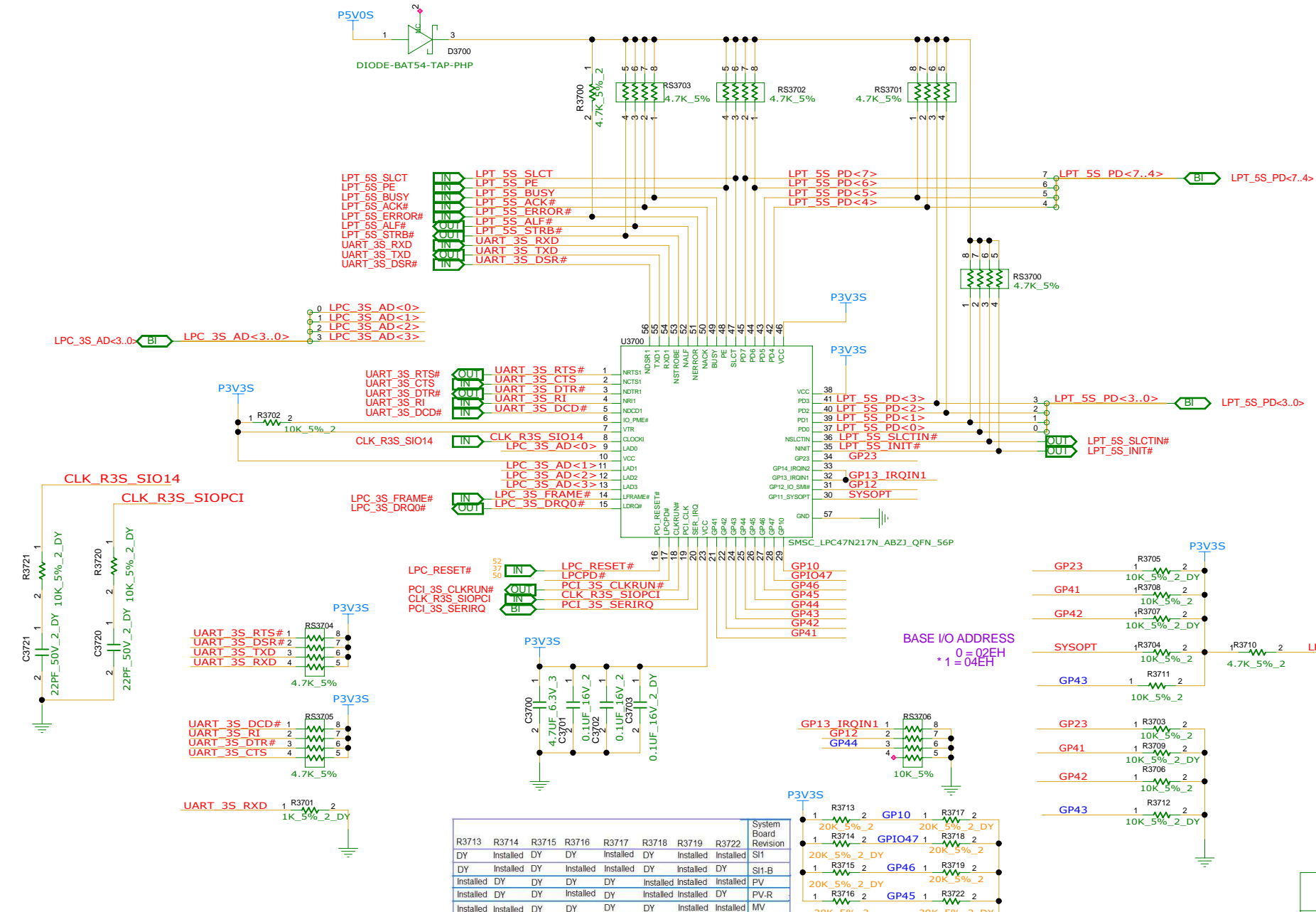
INVENTEC

TITLE			
CLAVIN_DJS KEYBOARD			
SIZE	CODE	DOCNUMBER	REV
A3	CS	1310A24700-0-ALG	D

CHANGE by EDI\_CHEN DATE 23-APR-2012

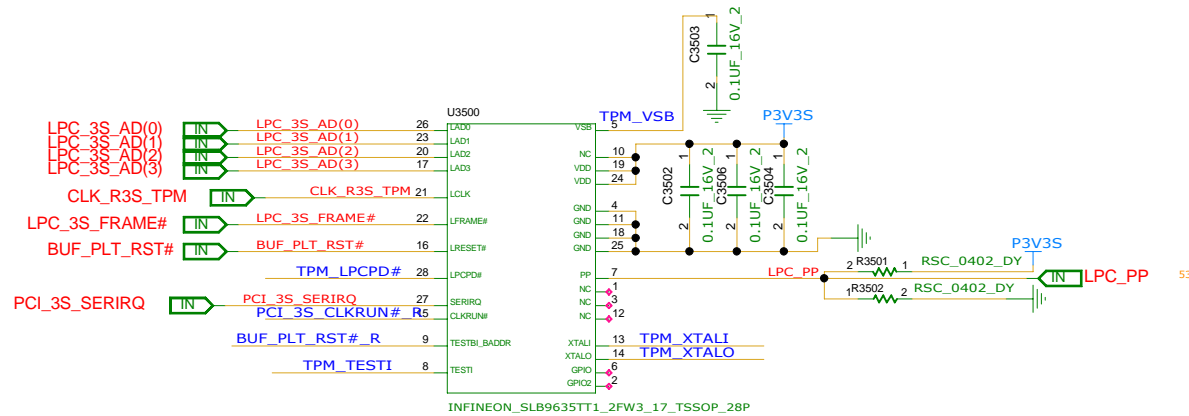
SHEET 51 of 73

# REFERENCE NUMER : 3700~3799



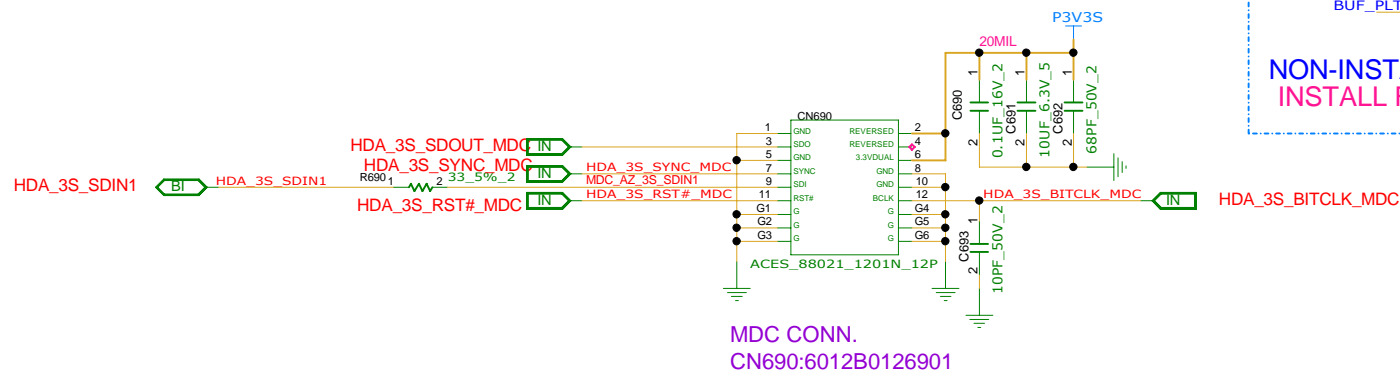
INVENTEC				
TITLE				
CLAVIN DIS SUPER I/O				
DOCNUMBER 1310A24700-0-ALG				
REV D				
SIZE A3	CODE CS	SHEET 52 of 73		

REFERENCE NUMER : 3500~3549



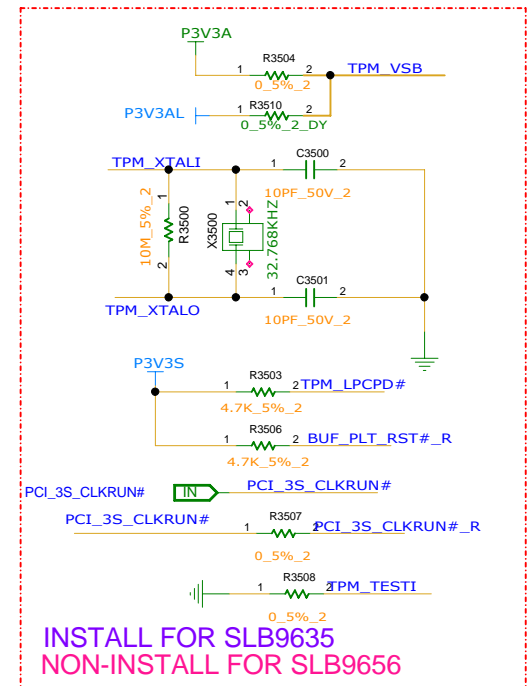
TPM1.2

REFERENCE NUMER : 650~699



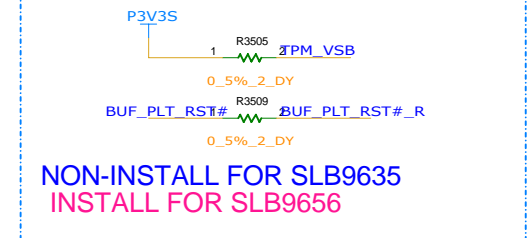
MDC CONN.  
CN690:6012B0126901

SLB9635SLB9656		
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



INSTALL FOR SLB9635  
NON-INSTALL FOR SLB9656

P3V3S RAIL FOR SLB9656



NON-INSTALL FOR SLB9635  
INSTALL FOR SLB9656

INVENTEC

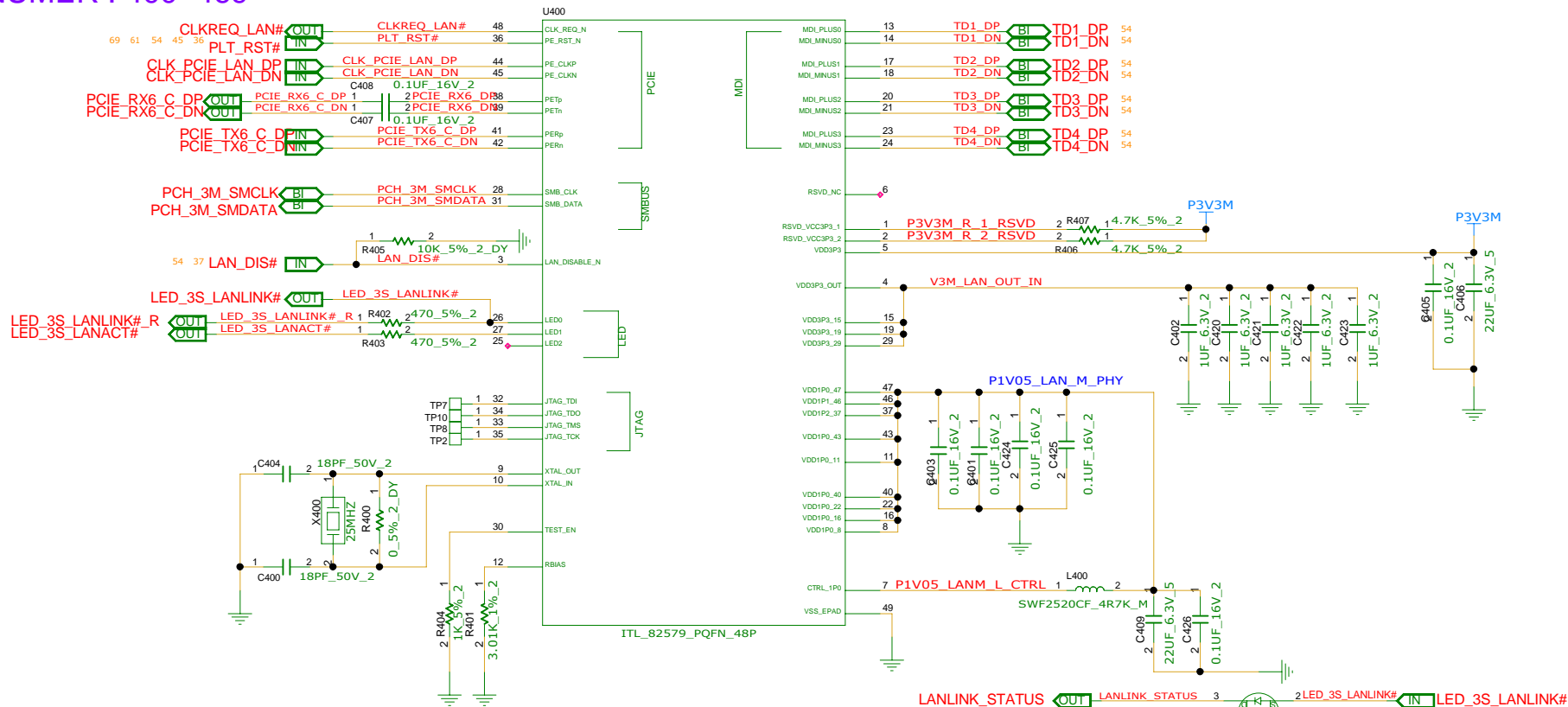
TITLE			
CLAVIN DIS TPM & MDC			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A24700-0-ALG	D

CHANGE by EDI CHEN DATE 23-APR-2012

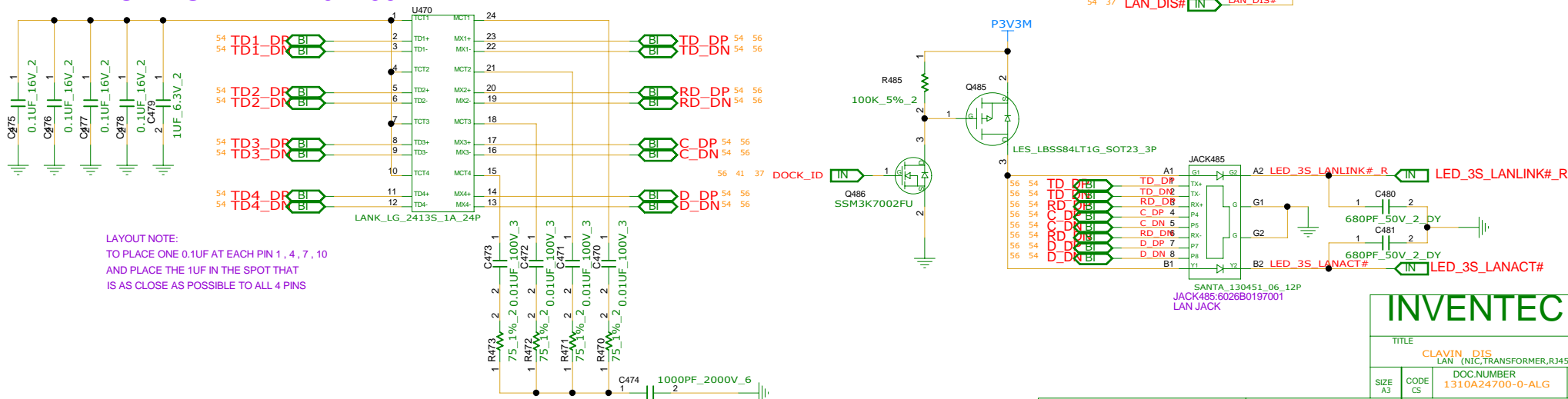
SHEET 53 of 73

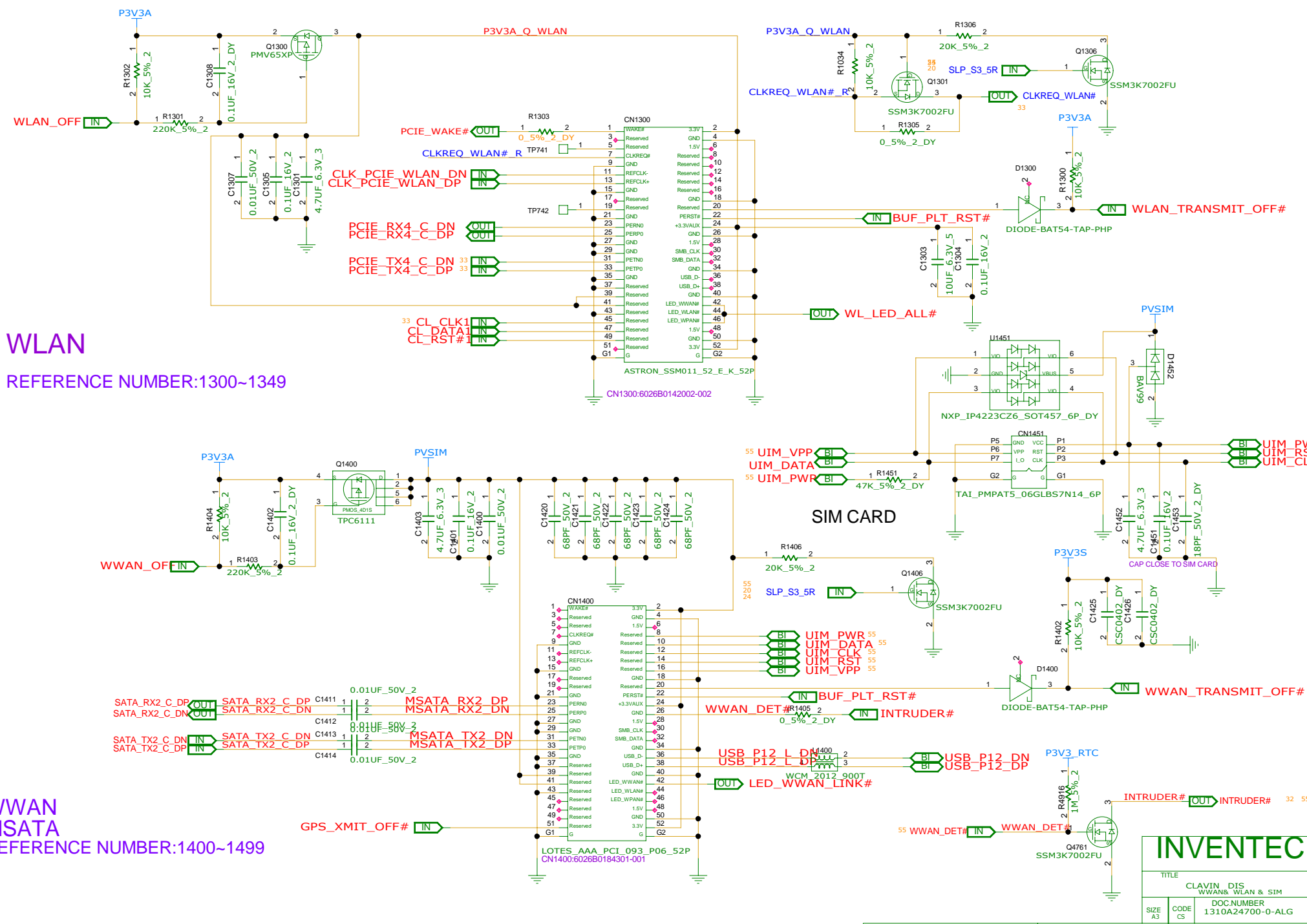
<http://sualaptop365.edu.vn/matrix.vn>

## REFERENCE NUMER : 400~469



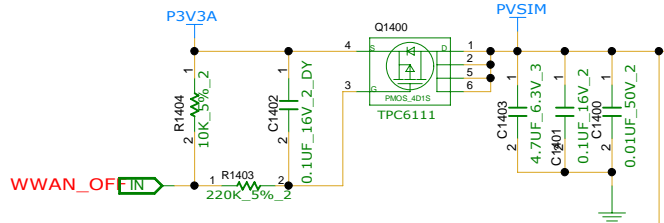
## REFERENCE NUMER : 470~499





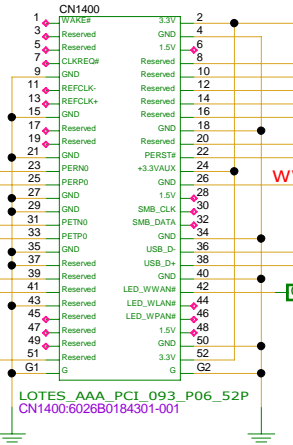
# WLAN

REFERENCE NUMBER:1300~1349

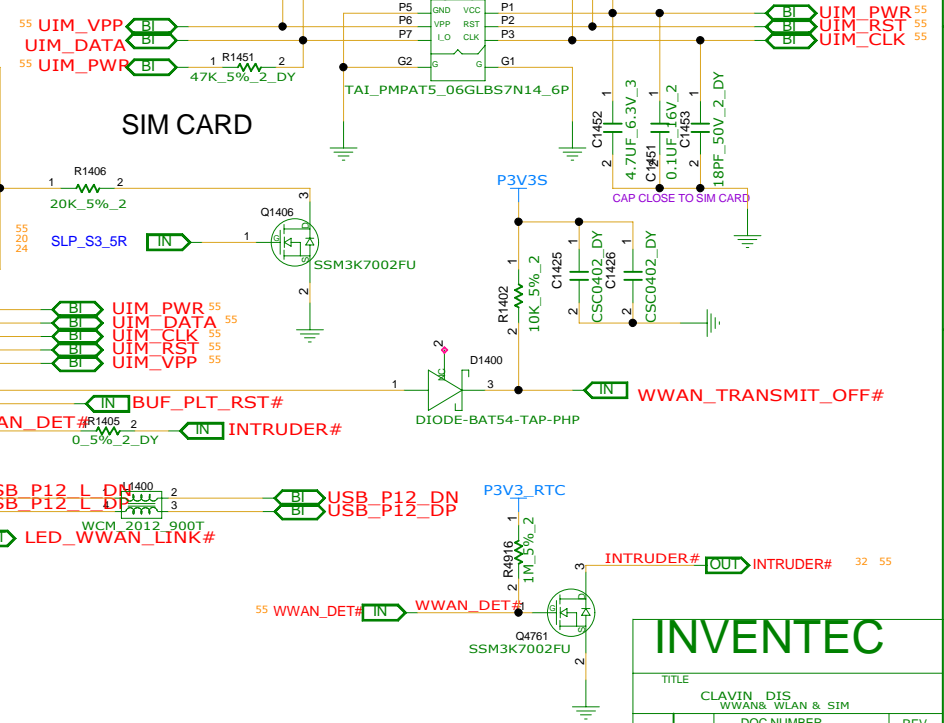


# WWAN MSATA

REFERENCE NUMBER:1400~1499



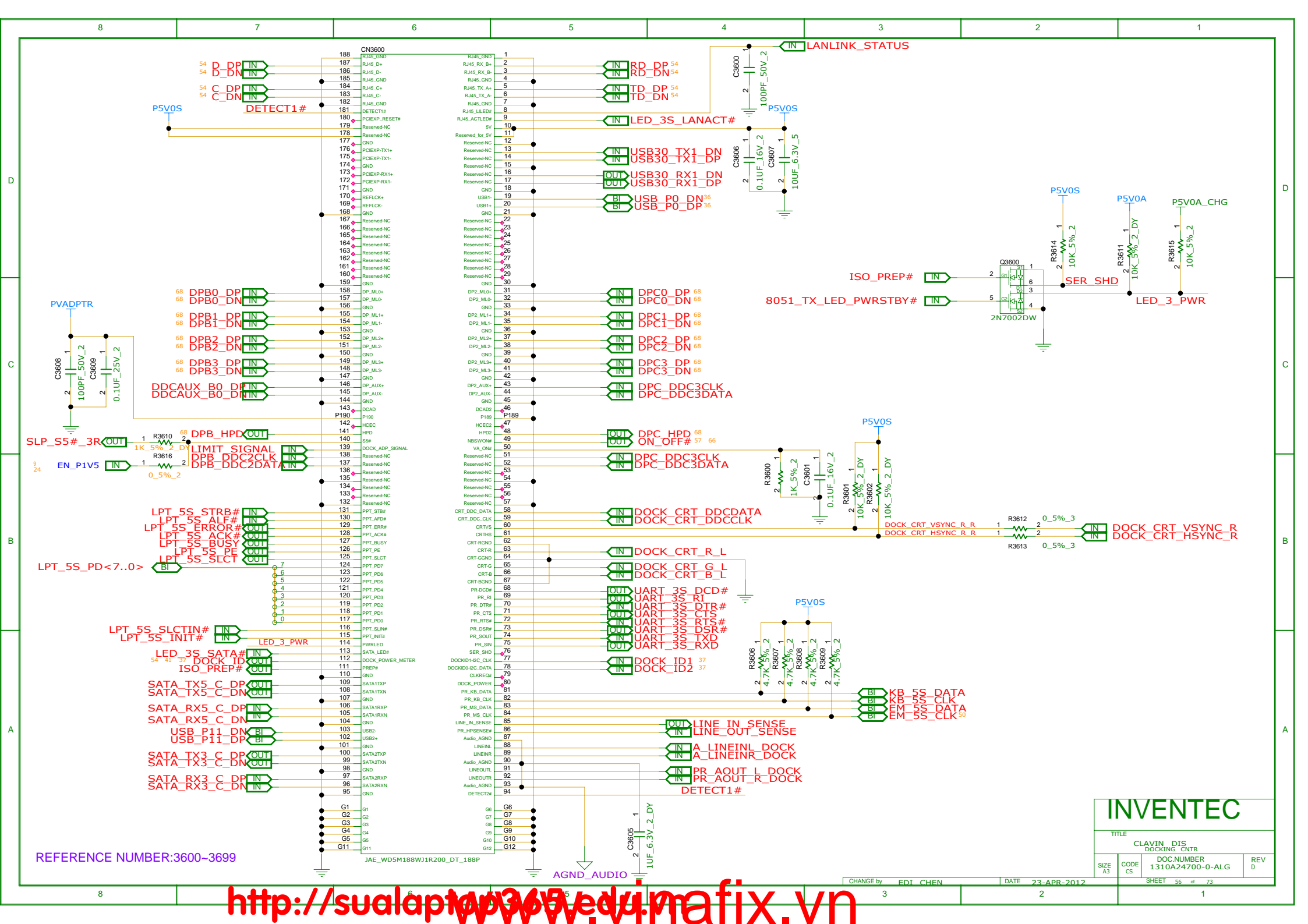
# SIM CARD



INVENTEC

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





REFERENCE NUMBER:3600-3699

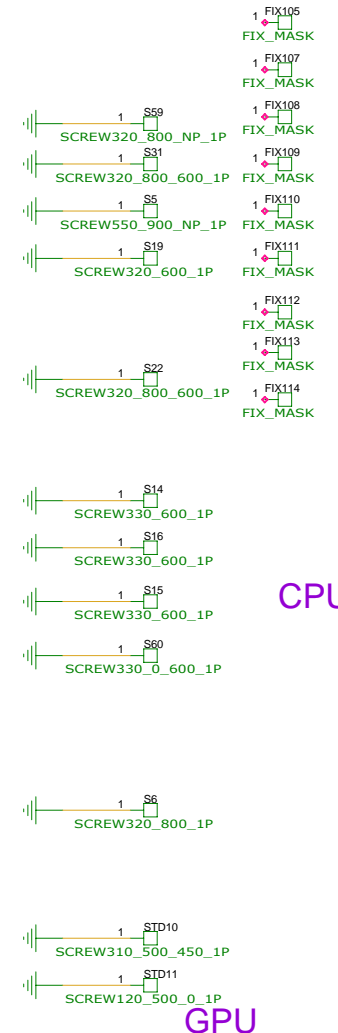
INVENTEC				
TITLE				
CLAVIN_D1S DOCKING_CNTR				
DOC NUMBER				
1310A24700-0-ALG				
REV D				
SIZE A3	CODE CS	SHEET 56 of 73		

<http://sualaptop3605.vi.mafix.vn>

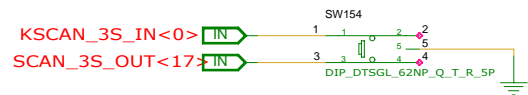
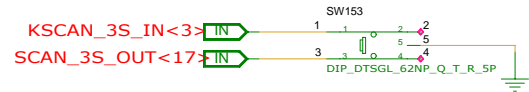




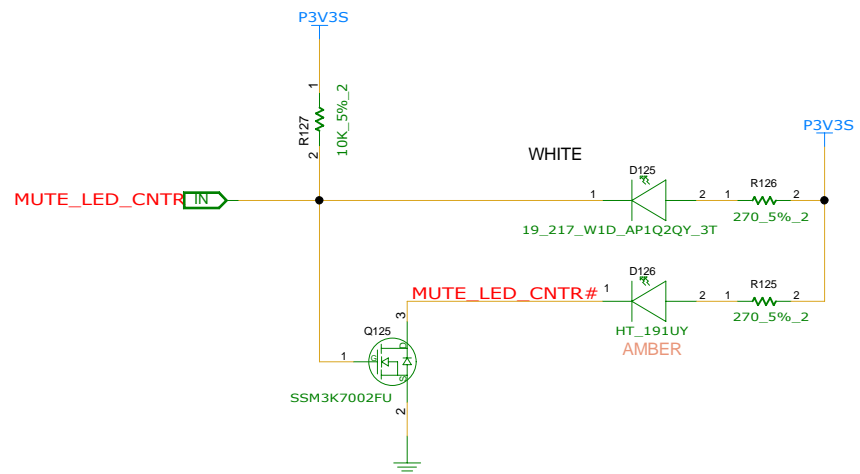
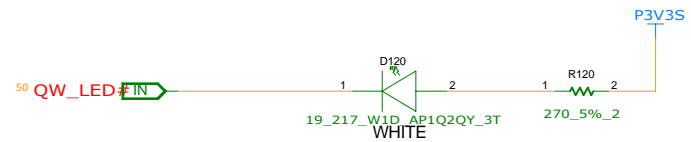
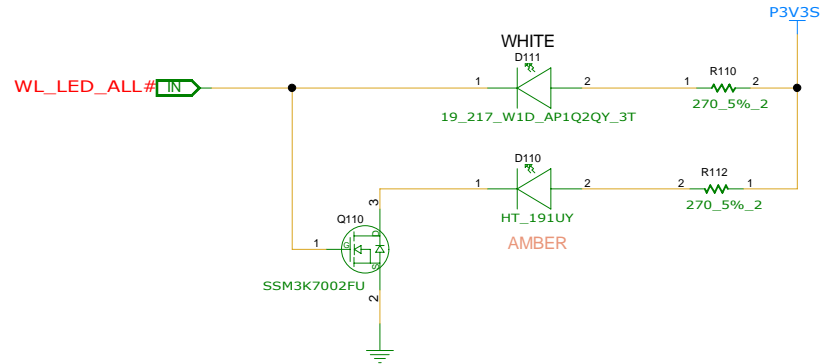
www.vinafix.vn



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



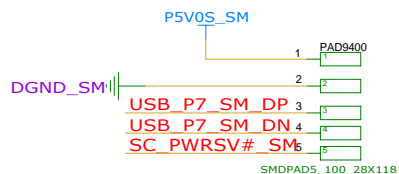
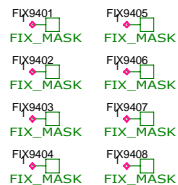
REFERENCE NUMBER:100~199



INVENTEC

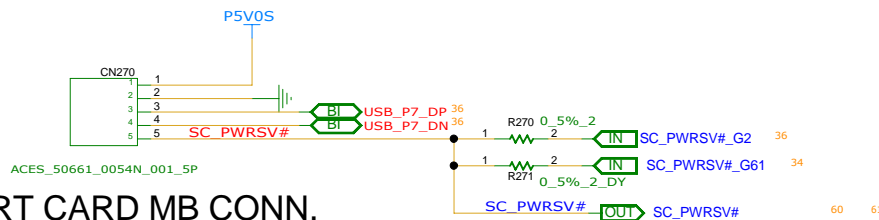
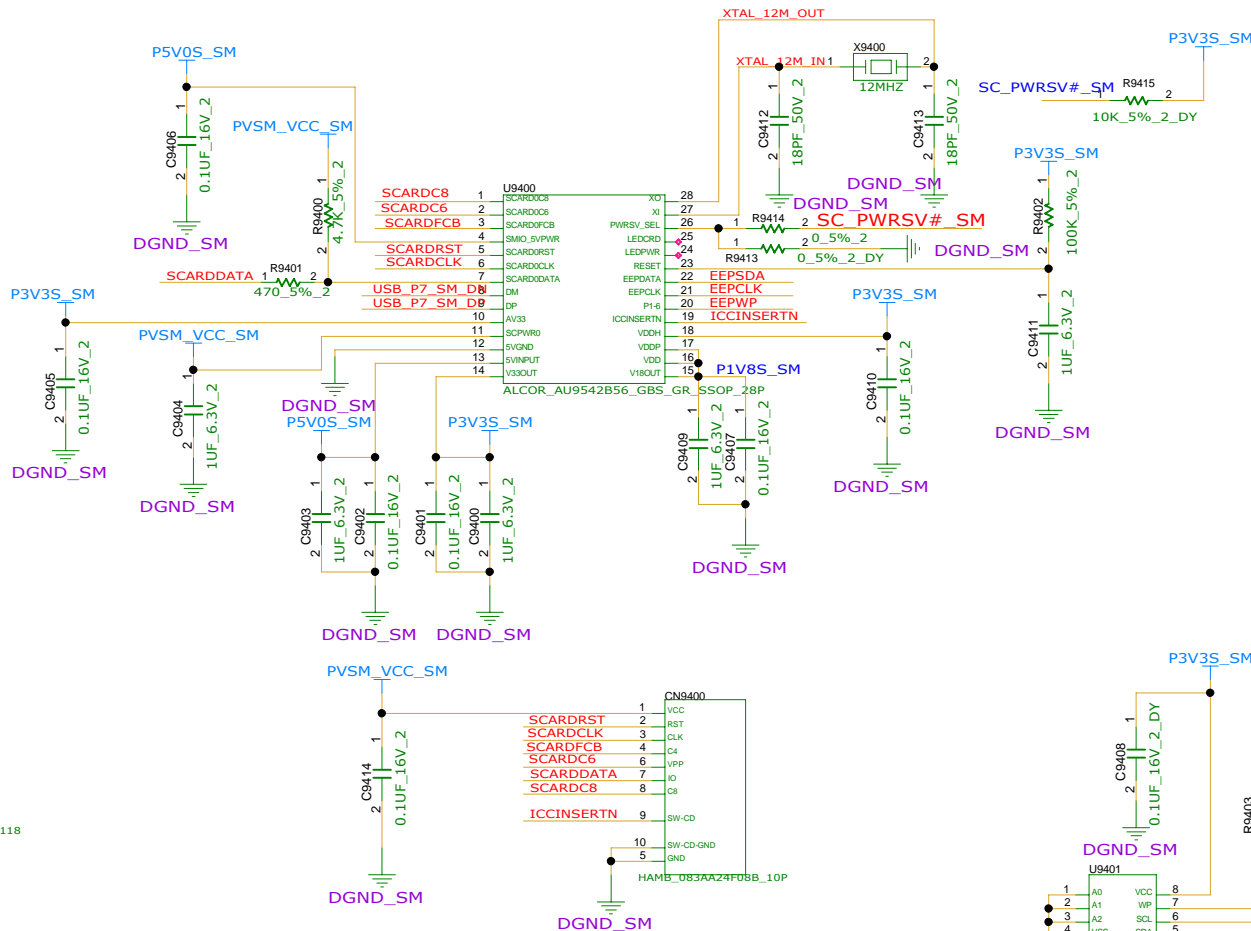
TITLE			
CLAVIN DIS WIRELESS / QUICK WEB / MUTE LED			
DOC NUMBER		REV D	
1310A24700-0-ALG			
SIZE A3	CODE CS	SHEET 59 of 73	

CHANGE by EDT\_CHEN DATE 23-APR-2012

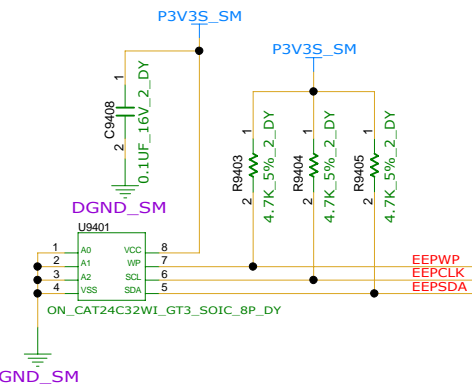


SMART CARD DB

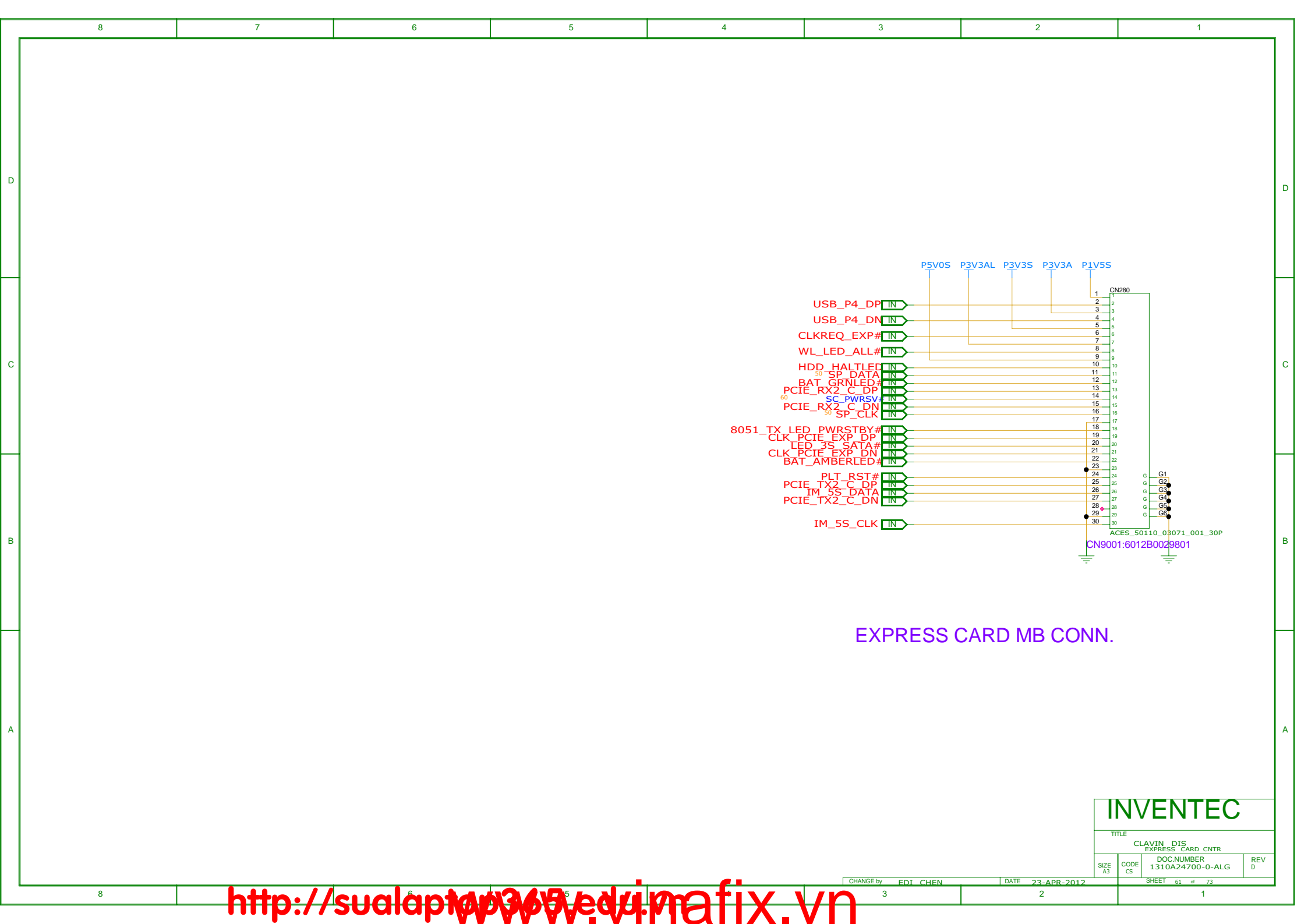
REFERENCE NUMBER:9400~9499



SMART CARD MB CONN.



INVENTEC			
TITLE CLAVIN_DIS SMART CARD			
SIZE A3	CODE CS	DOC NUMBER 1310A24700-0-ALG	REV D
SHEET 60 of 73			



INVENTEC			
TITLE			
CLAVIN_DIS EXPRESS CARD CNTR			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A24700-0-ALG	D
SHEET 61 of 73			

BLANK

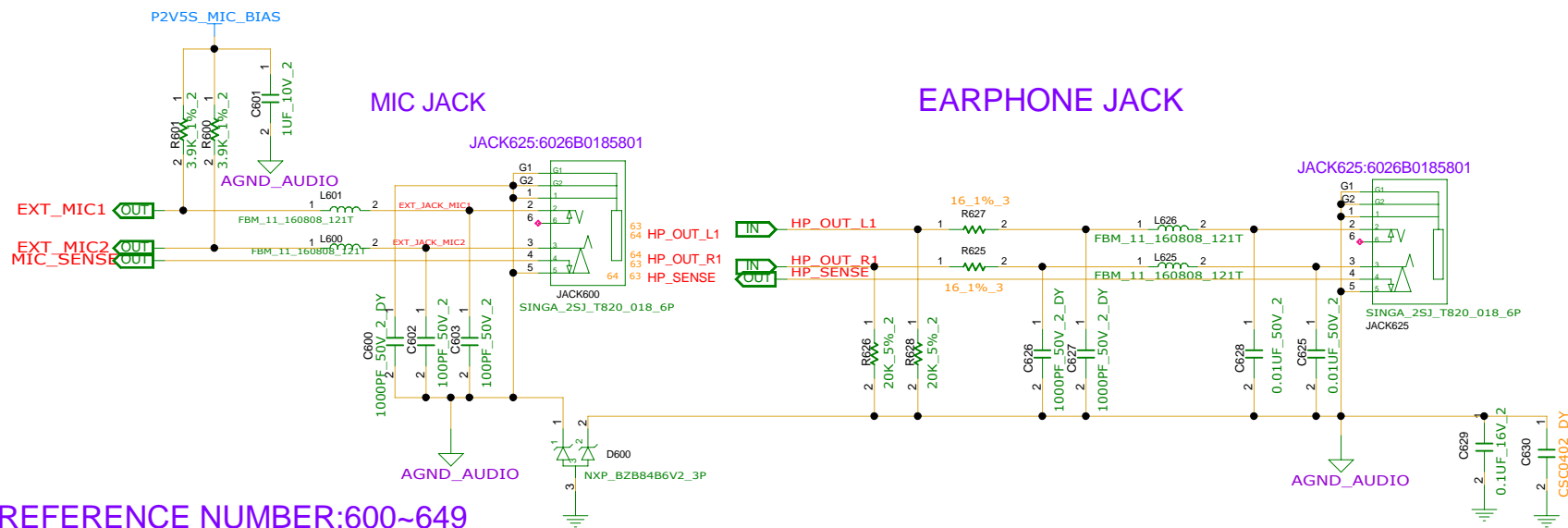
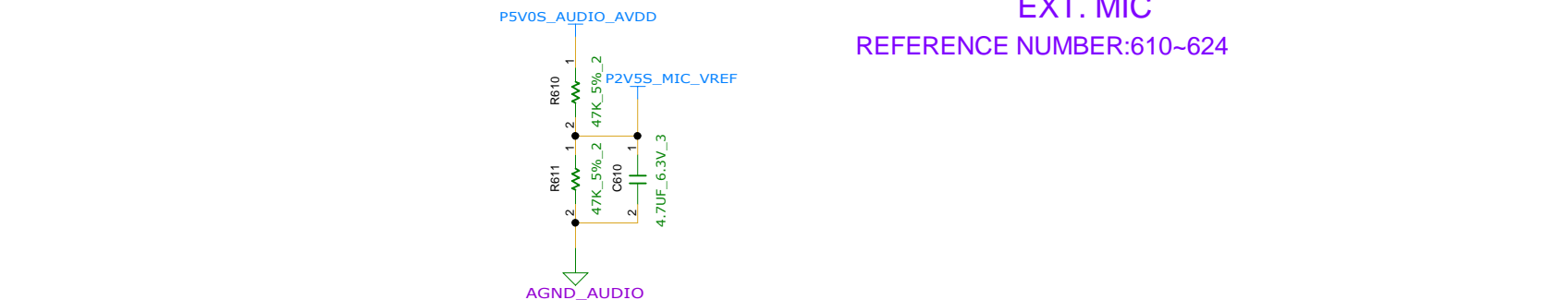
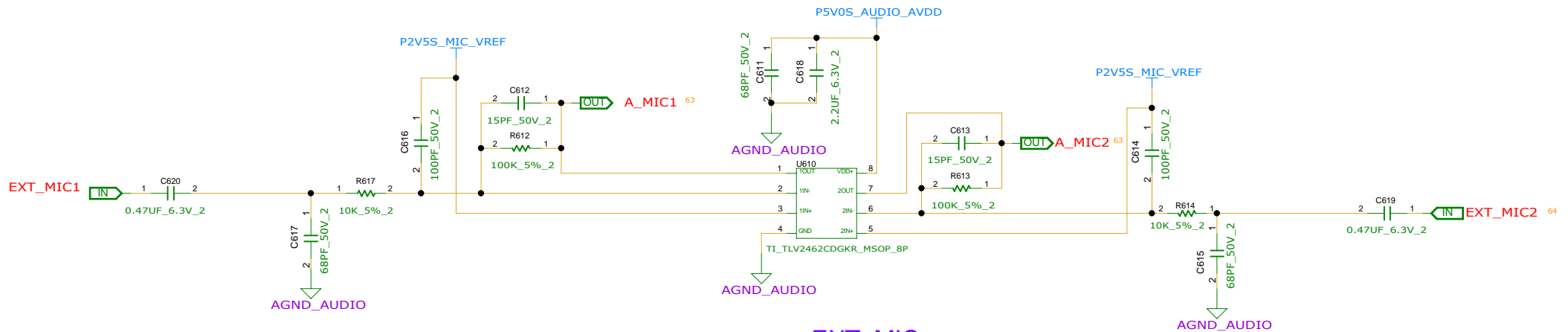
INVENTEC

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

CHANGE by EDT CHEN	DATE 23-APR-2012	SHEET 62 of 73
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<http://sualaptop365.edu.vn>  
[www.vinafix.vn](http://www.vinafix.vn)



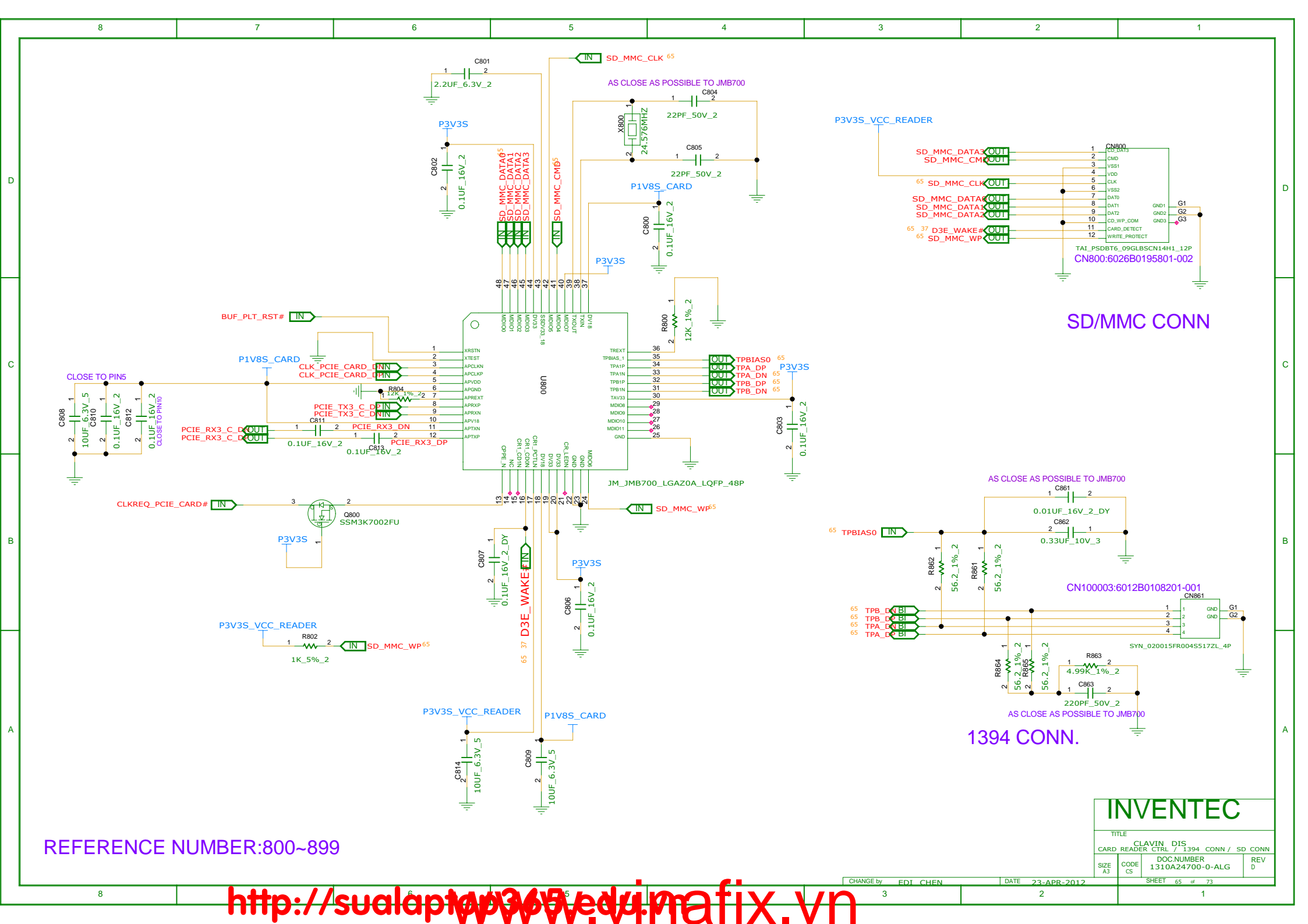


INVENTEC			
TITLE			
CLAVIN_DIS EXT. MIC / MIC / HP			
SIZE A3	CODE CS	DOC NUMBER 1310A24700-0-ALG	REV D
SHEET 64 of 73			

CHANGE by EDI\_CHEN DATE 23-APR-2012

<http://sualaptop365.edu.vn/mafix.vn>





REFERENCE NUMBER:800~899

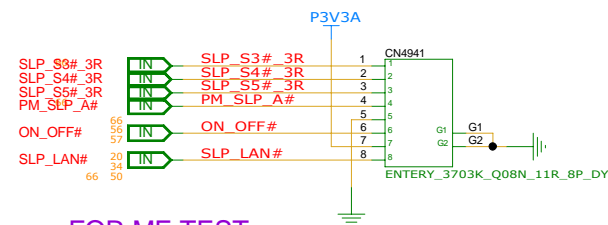
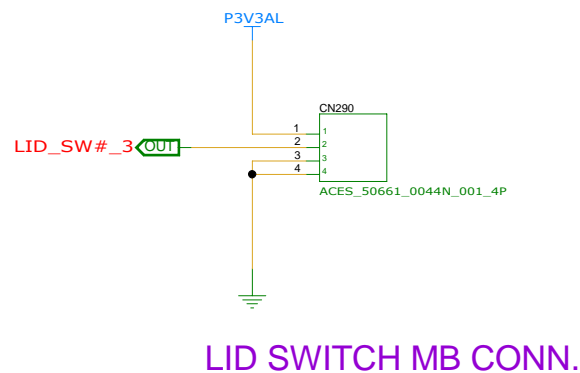
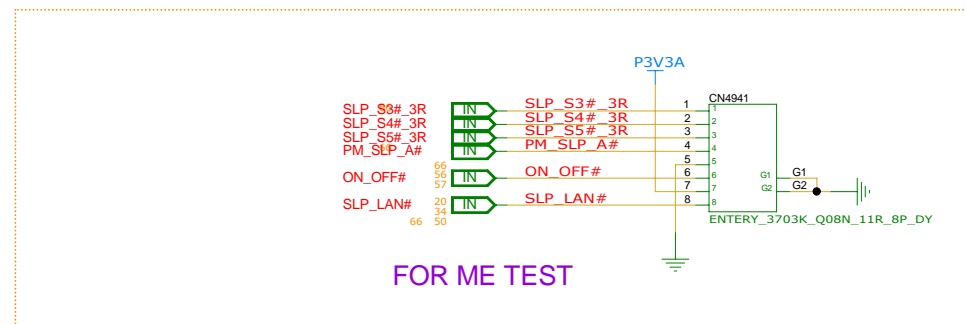
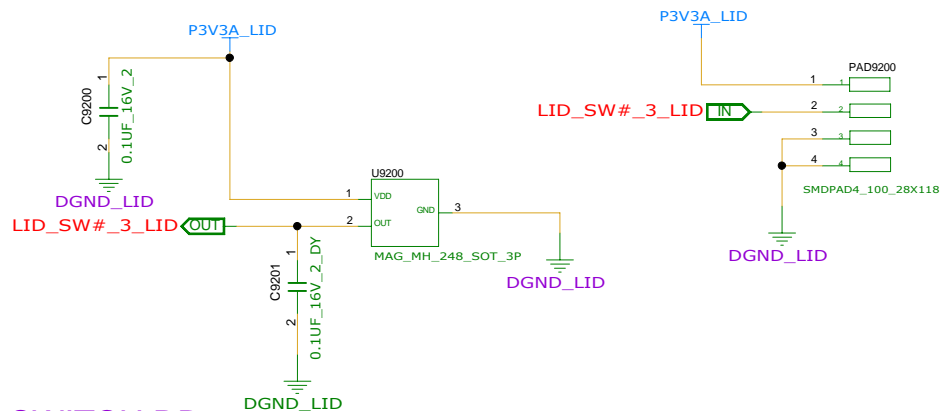
SD/MMC CONN

1394 CONN.

INVENTEC			
TITLE			
CARD READER CTRL / 1394 CONN / SD CONN			
DOC NUMBER			
1310A24700-0-ALG			
SIZE	CODE	REV	
A3	CS	D	

LID SWITCH DB

REFERENCE NUMBER:9200~9299



INVENTEC

TITLE CLAVIN\_DIS LID SWITCH

DOC NUMBER 1310A24700-0-ALG

REV D

CHANGE by EDI CHEN DATE 23-APR-2012

SHEET 66 of 73

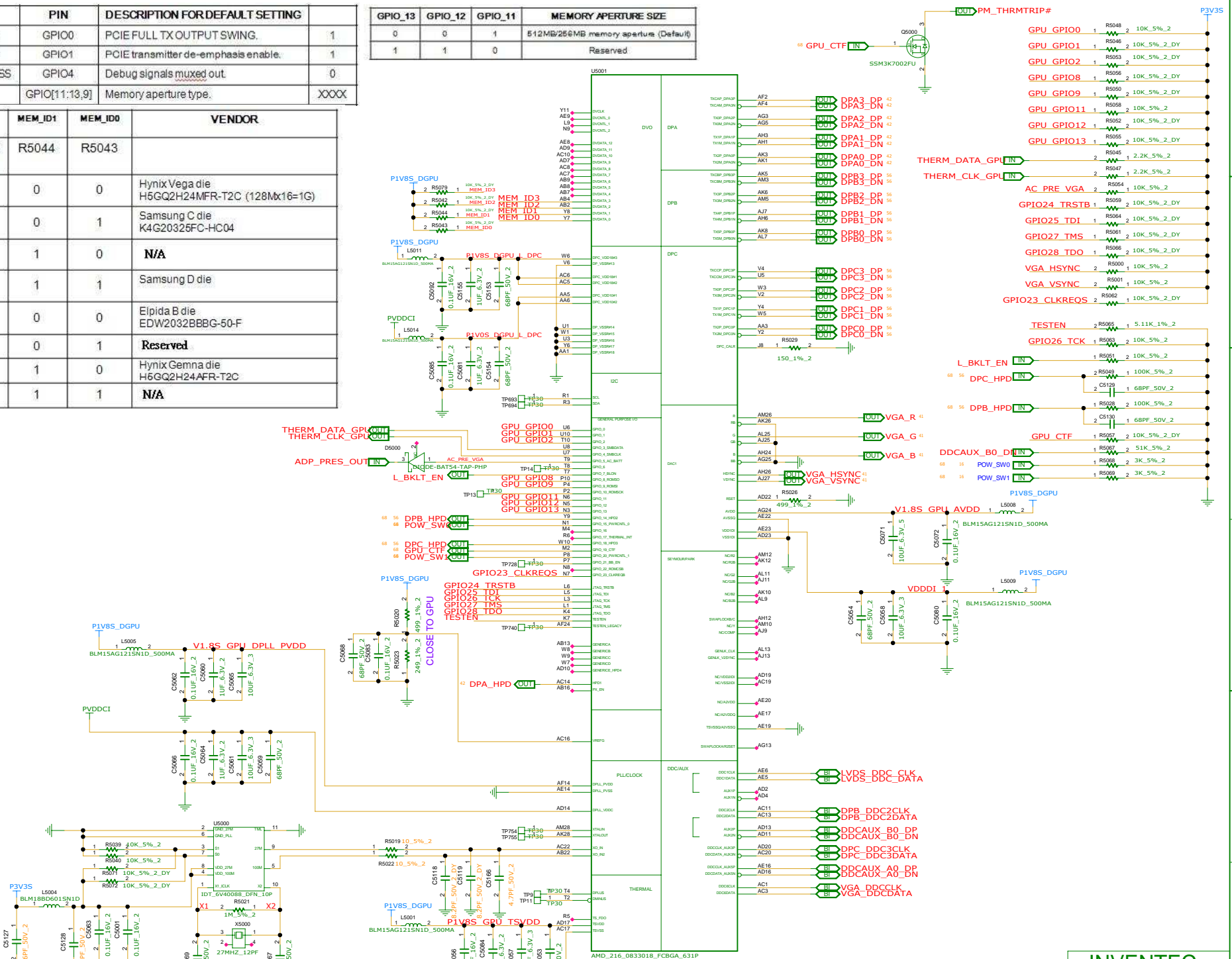
<http://sualaptop365.edu.vn> [www.vinafix.vn](http://www.vinafix.vn)



STRAPS	PIN	DESCRIPTION FOR DEFAULT SETTING	
TX_PWRS_ENB	GPIO0	PCIe FULL TX OUTPUT SWING	1
TX_DEEMPH_EN	GPIO1	PCIe transmitter de-emphasis enable	1
BIF_DEBUG_ACCESS	GPIO4	Debug signals muxed out	0
ROMIDCFG	GPIO[11:13,9]	Memory aperture type	XXXX

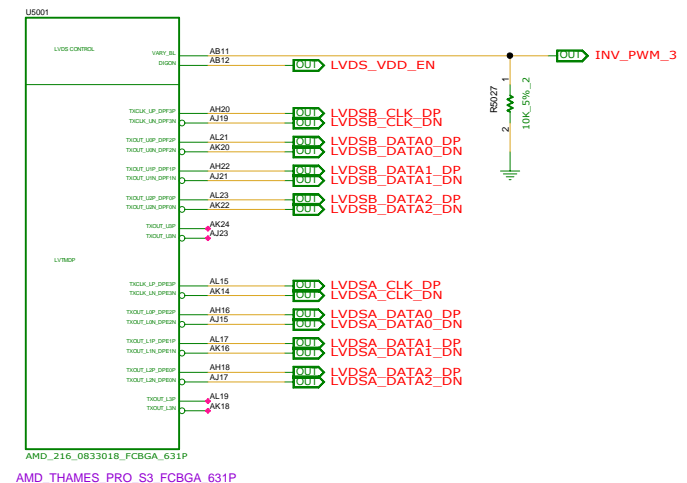
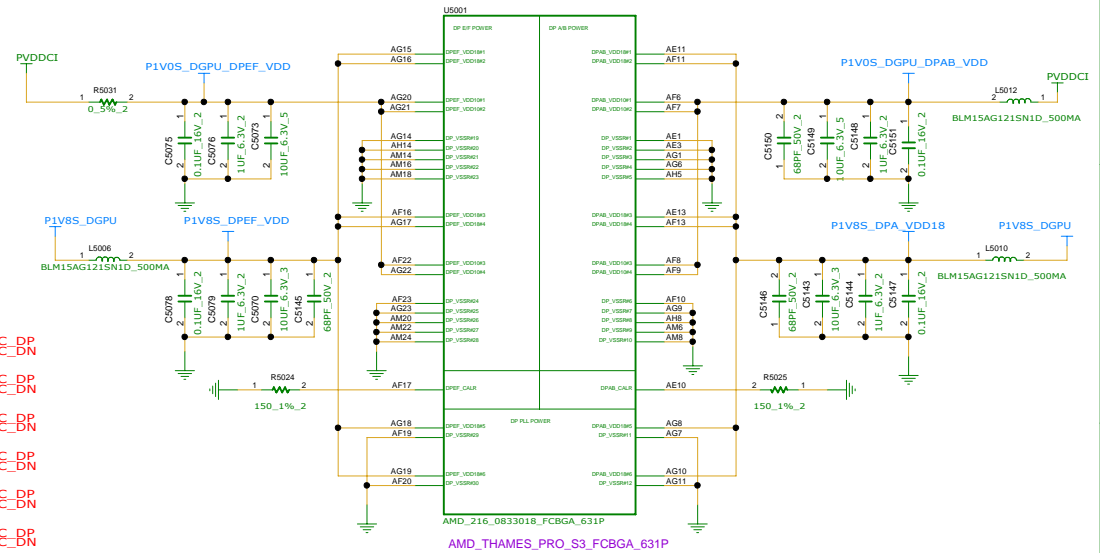
PCH GPIO34		MEM_ID1	MEM_ID0	VENDOR
R4725 (high)	R4940 (low)	R5044	R5043	
In	In	0	0	Hynix Vega die H5GQ2H24MFR-T2C (128Mx16=1G)
In	In	0	1	Samsung C die K4G20325FC-HC04
In	In	1	0	N/A
In	In	1	1	Samsung D die
In		0	0	Elpida B die EDW2032BBBG-50-F
In		0	1	Reserved
In		1	0	Hynix Gemina die H6GQ2H24AFR-T2C
in		1	1	N/A

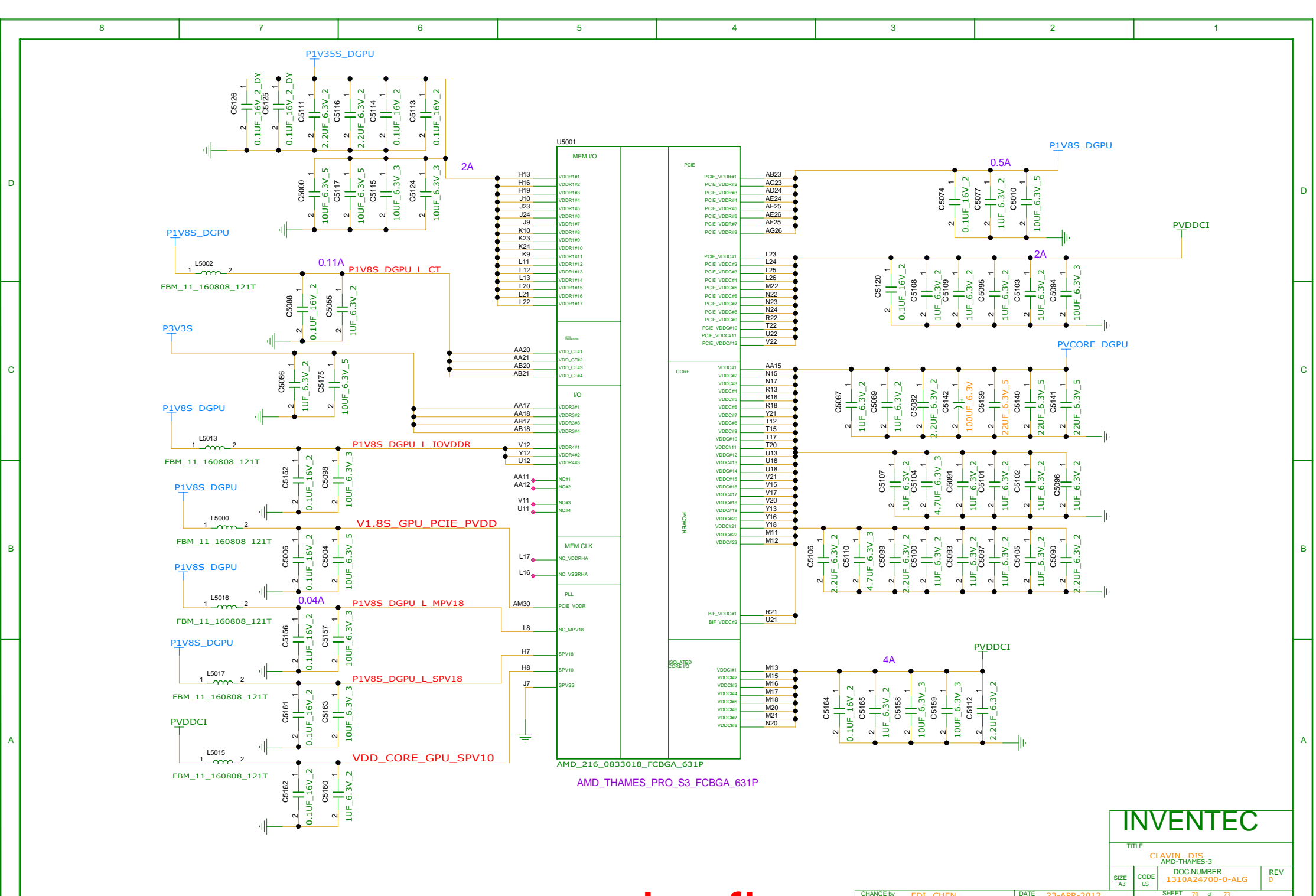
GPIO_13	GPIO_12	GPIO_11	MEMORY APERTURE SIZE
0	0	1	512MB/256MB memory aperture (Default)
1	1	0	Reserved

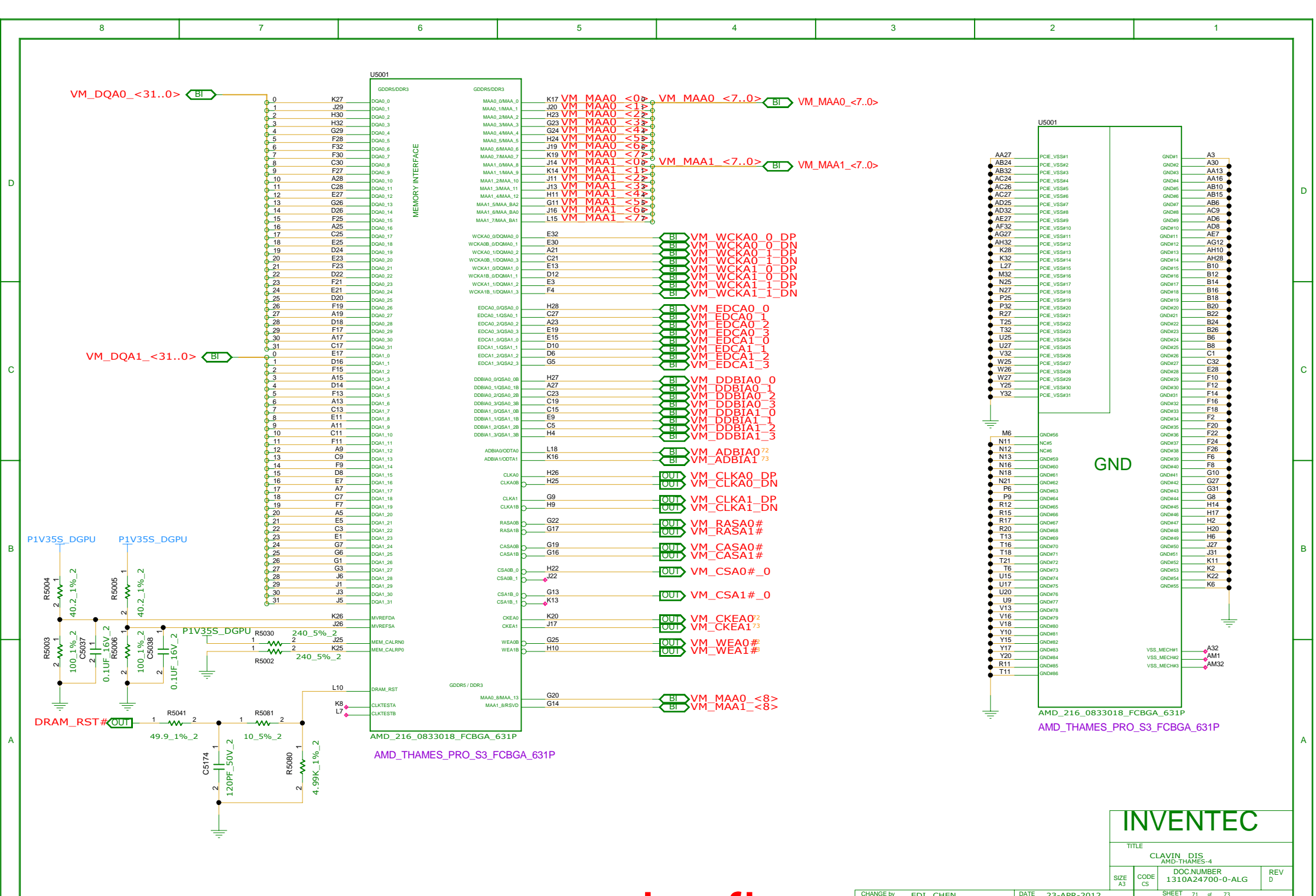


INVENTEC			
TITLE	CLAVIN DIS	DOC NUMBER	REV
SIZE	CS	1310A24700-0-ALG	1
SHEET	08	01	01

<http://sualaptop365.com>

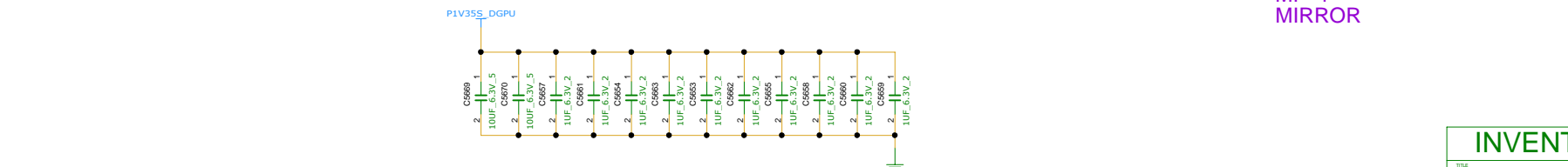
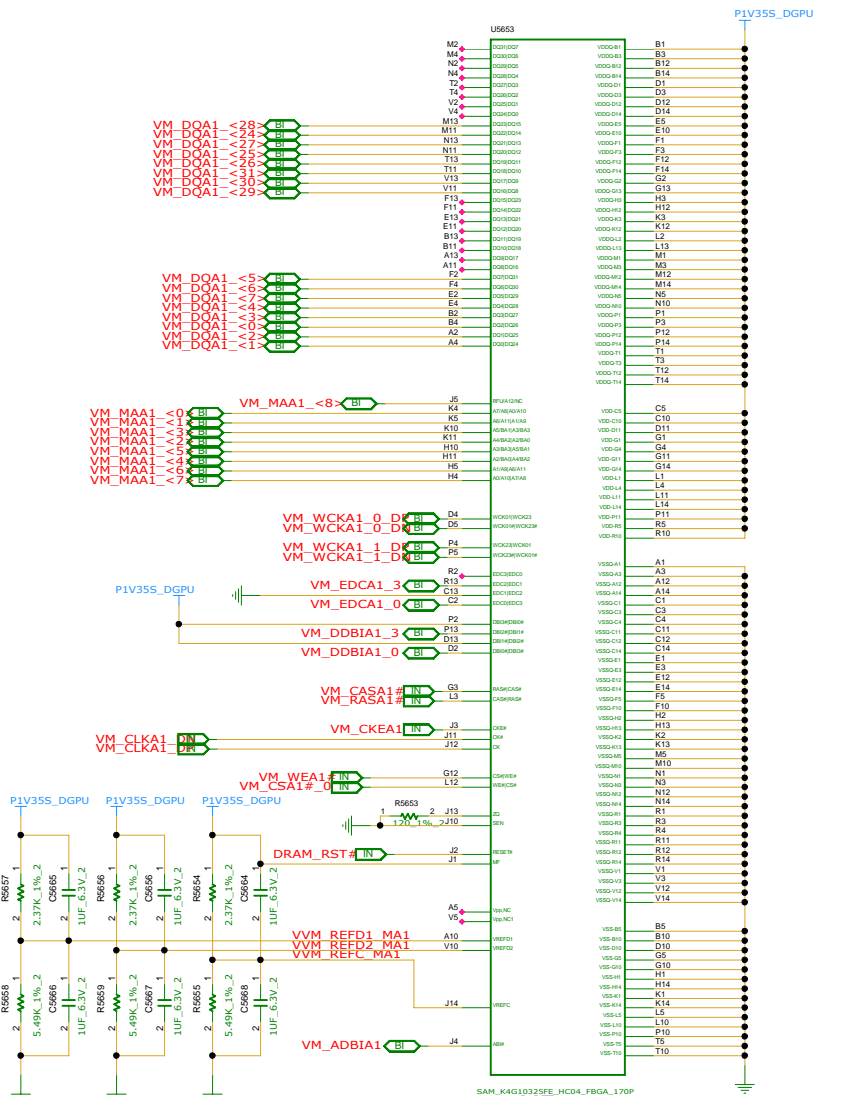
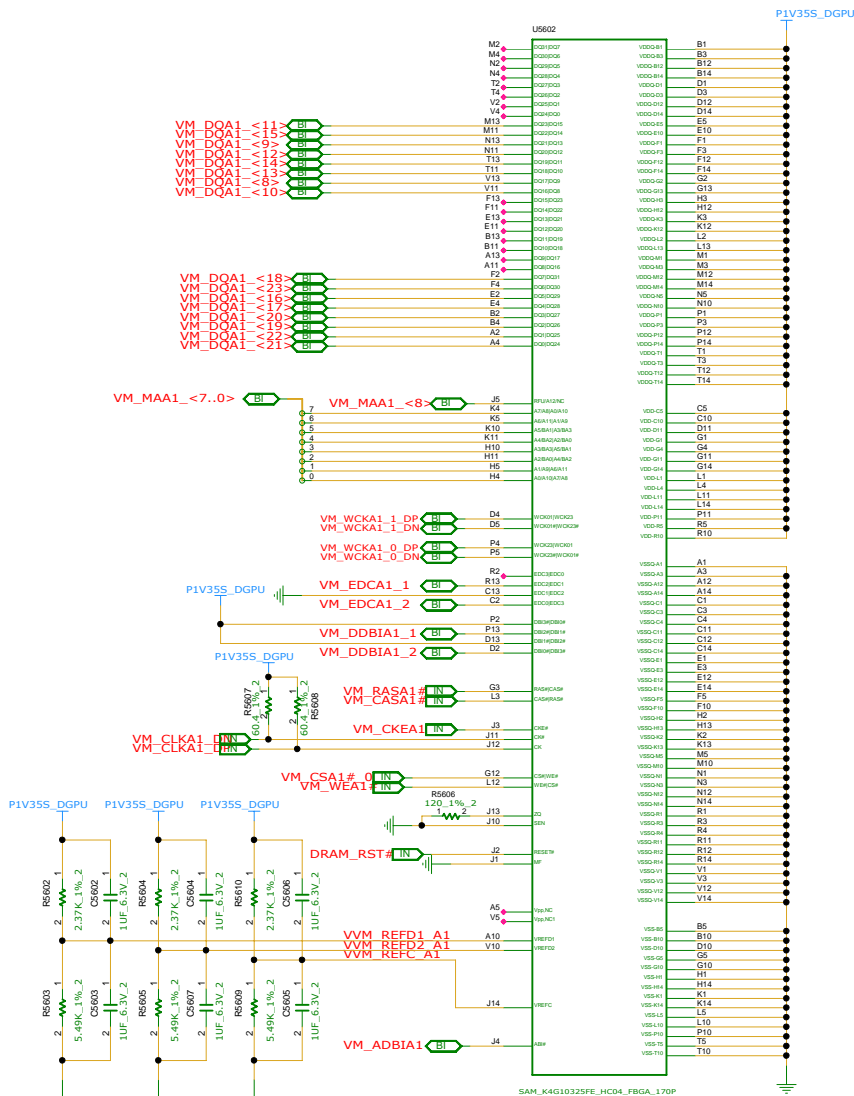












<http://sualaptop365.com/vbmefix.vn>

INVENTEC				
TITLE: CLAVIN DIS VRAM-2				
SIZE: C	CODE: 1310A24700-0-ALG	DOC NUMBER: 1310A24700-0-ALG	REV: D	SHEET: 23 of 23

CHANGE BY: FNT CHEN DATE: 23-APR-2012