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HSF Property: ROHS or Halogen-Free

# CALVIN DIS

## MV BUILD

2012.04.23

05/07/2012	2012-ECO-008893	D
09/23/2012	2012-ECO-007890	D
09/18/2012	2012-ECO-007325	B
02-APR-2012	2012-ECO-006245	A
DATE	CHANGE NO.	REV

INVENTEC									
DRAWER	EE	DATE	POWER	DATE	TITLE CALVIN DIS CALVIN DIS MAIN BOARD				
DESIGN	FTD CHEN	01.APR.2012	ALAN USHER	01.APR.2012					
CHECK	FTD CHEN	03.APR.2012	ALAN USHER	03.APR.2012					
RESPONSIBLE	FTD CHEN	03.APR.2012	ALAN USHER	03.APR.2012					
SIZE	A3		VER. A02		SIZE	A3	CODE	CS	REV 9
FILE NAME	CALVIN-DIS-MB-1310A247001					DOC NUMBER 1310A24700-0-ALG			
PIN	R050A247001					SHEET	OF 23		

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**INVENTEC**

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

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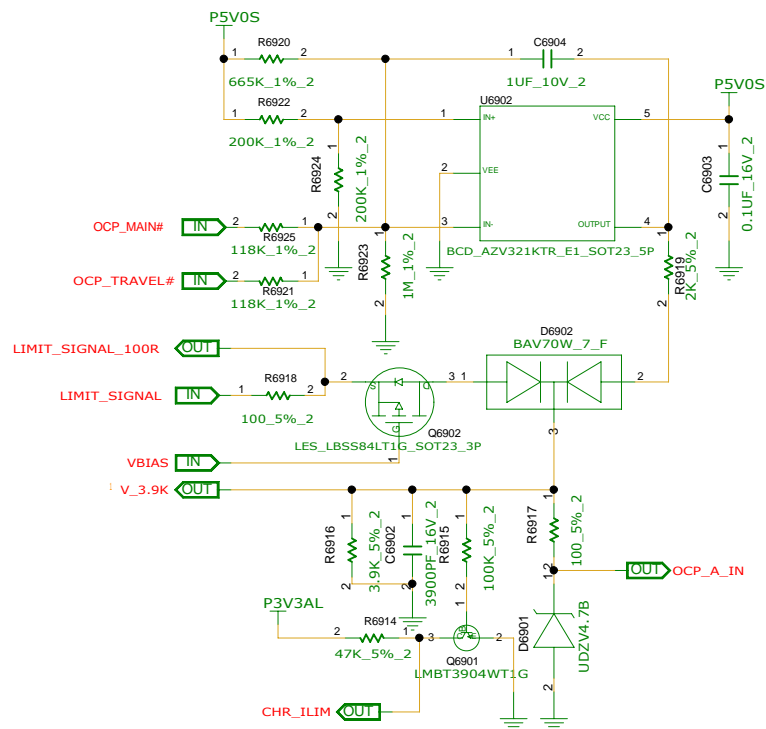
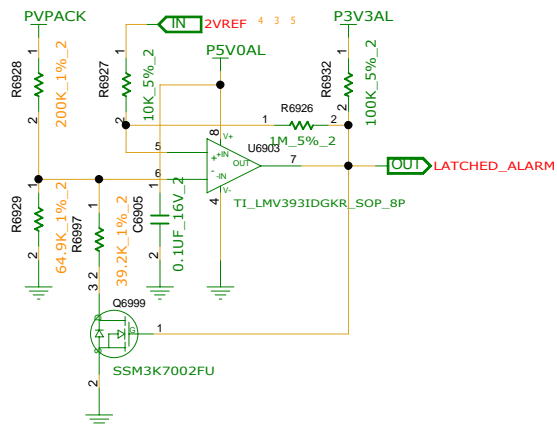
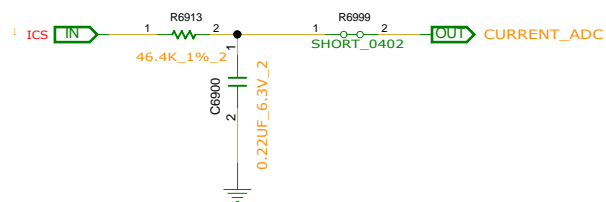
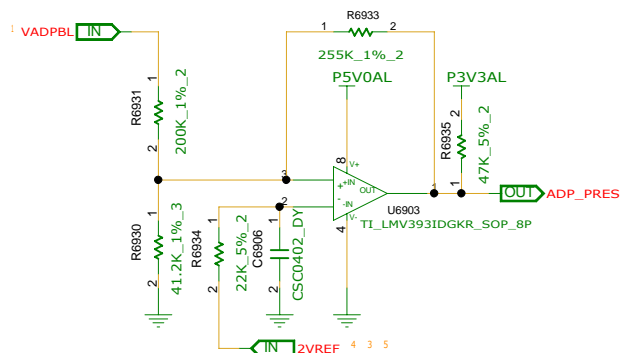


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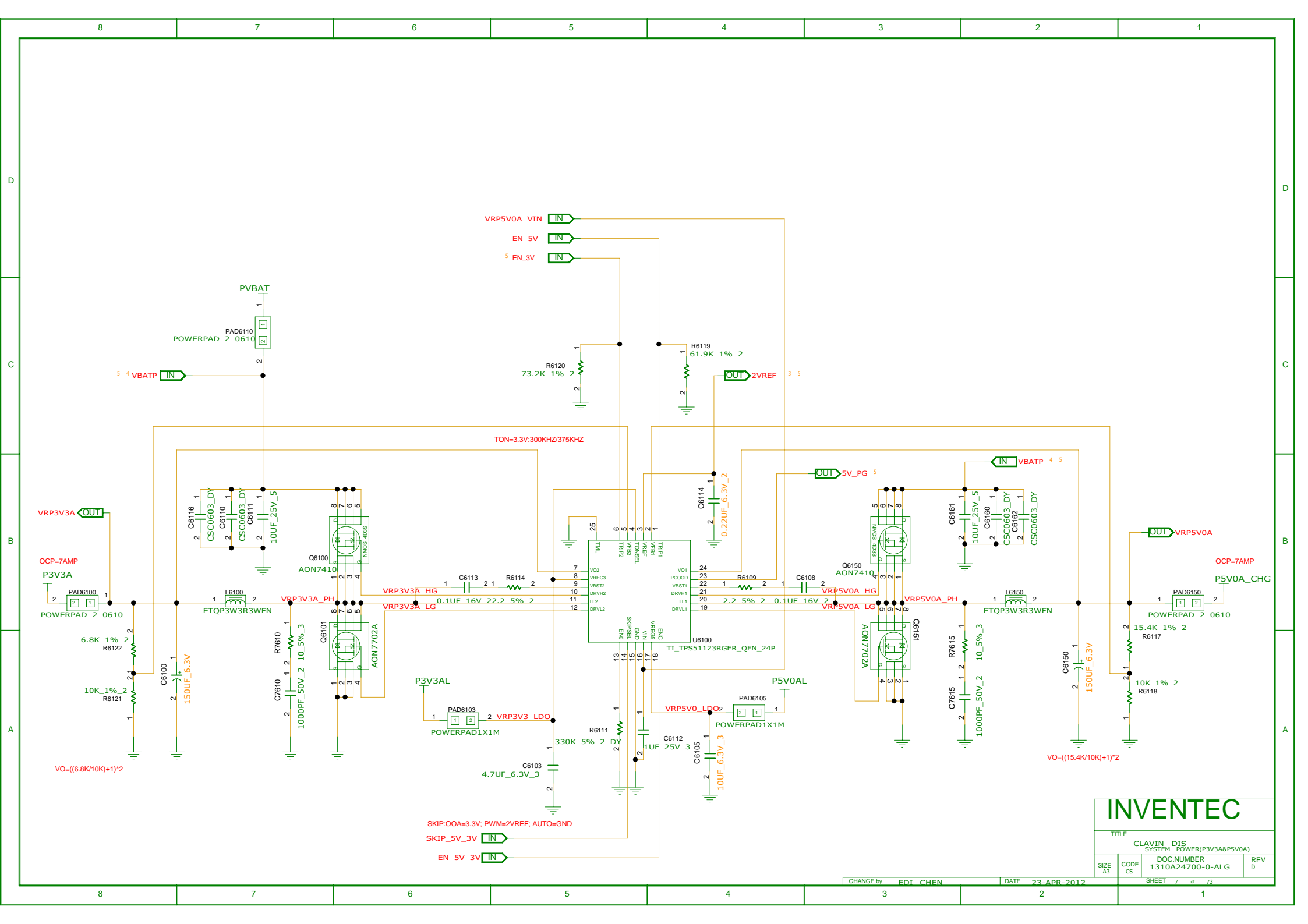


INVENTEC

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

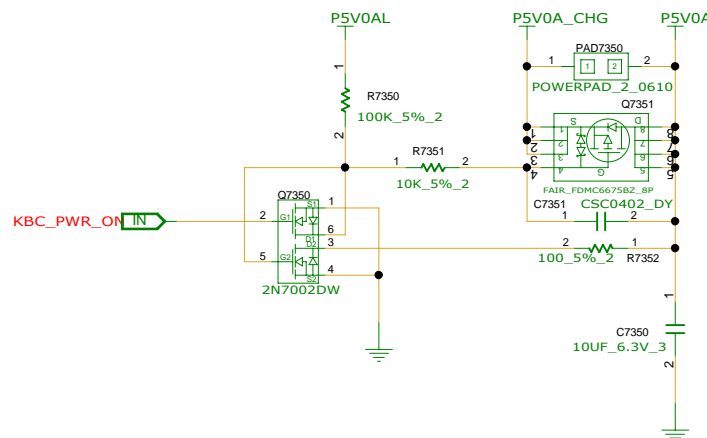
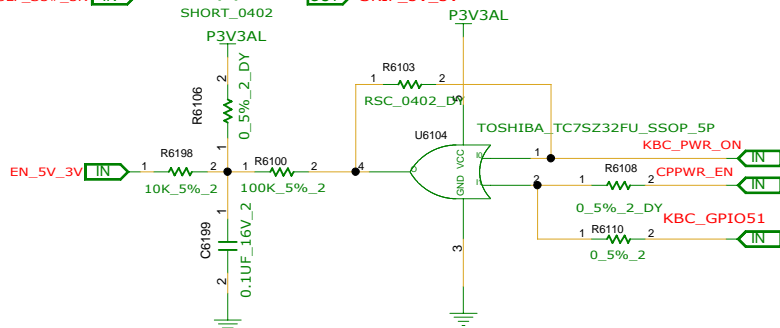
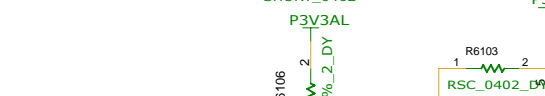
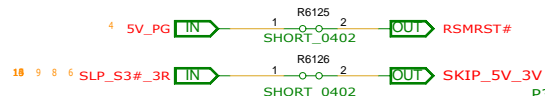
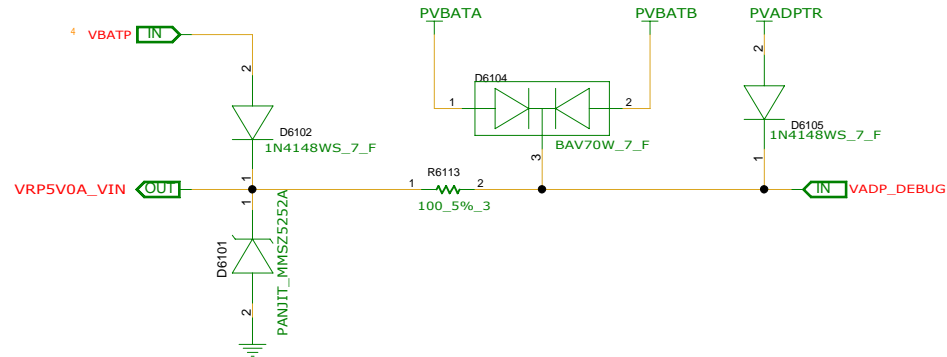
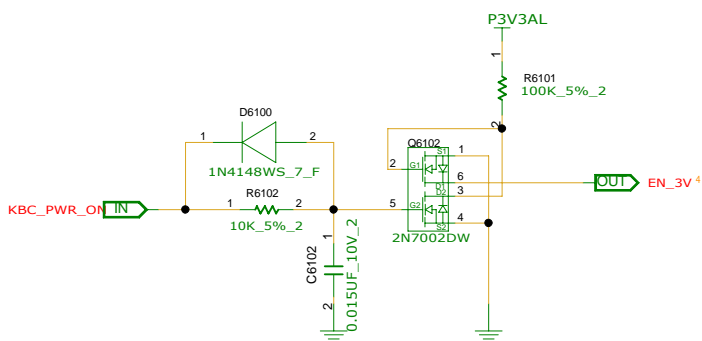
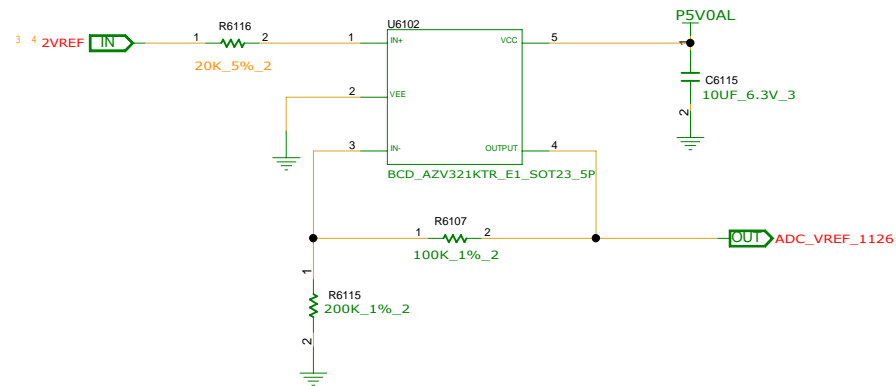
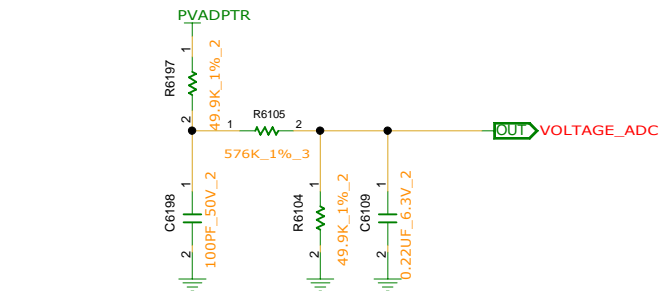
CHANGE by EDI CHEN DATE 23-APR-2012

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INVENTEC

TITLE			
CLAVIN_DIS SYSTEM_POWER(P3V3A&P5V0A)			
DOCNUMBER 1310A24700-0-ALG			
SIZE A3	CODE CS	REV D	



INVENTEC			
TITLE			
CLAVIN_DIS			
P3V3AB&P5V0A_CHG_PORT			
DOCNUMBER			
1310A24700-0-ALG			
REV			
D			
SIZE	CODE	SHEET	
A3	CS	8 of 73	

CHANGE by EDI\_CHEN DATE 23-APR-2012







D

D

C

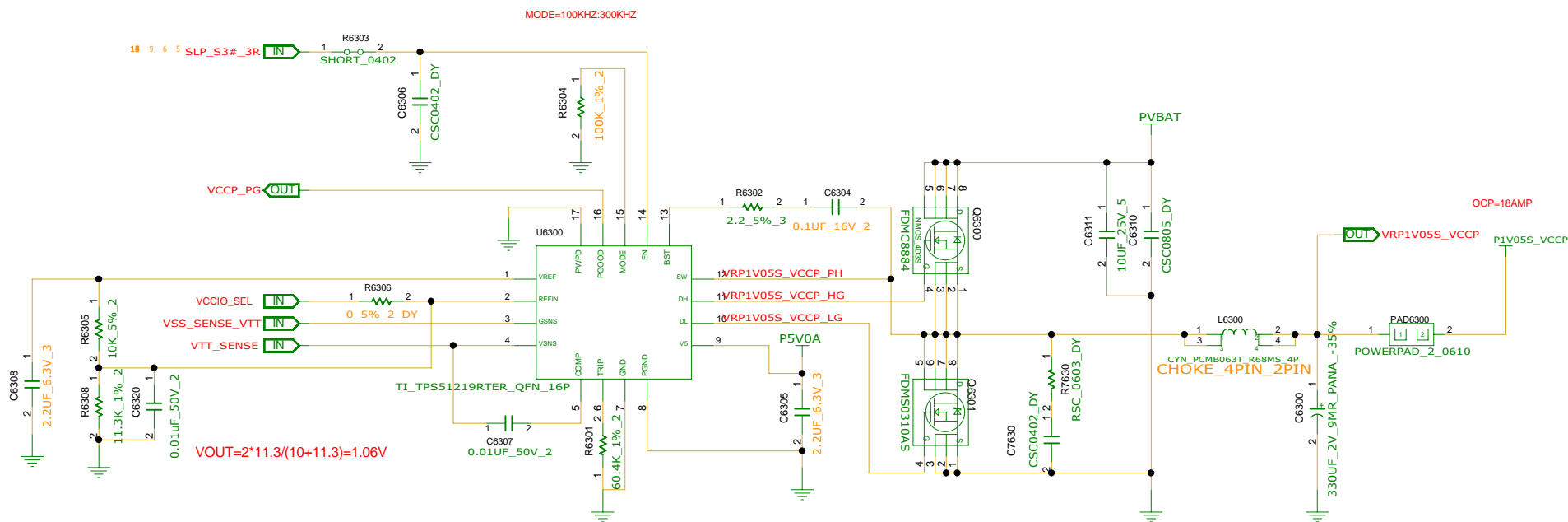
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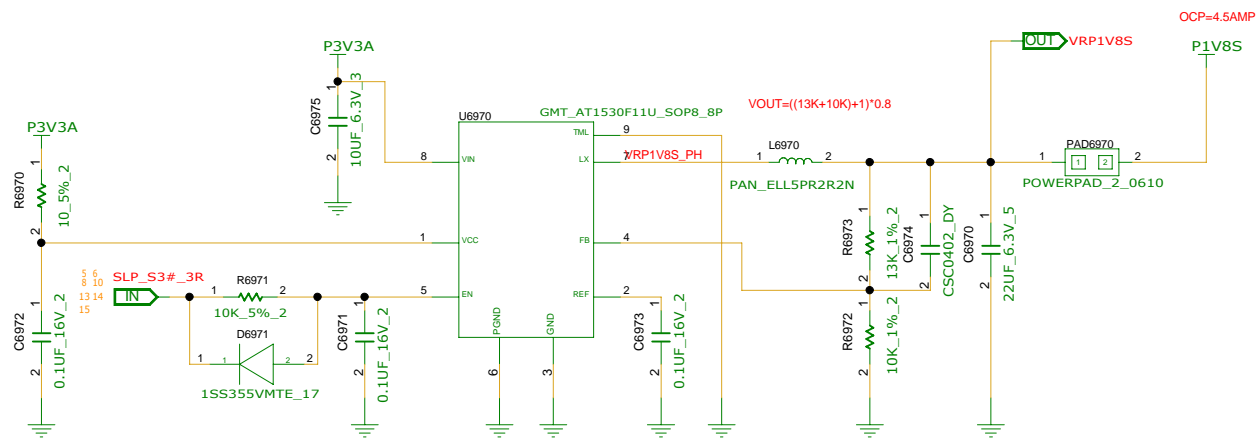
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B

A

A





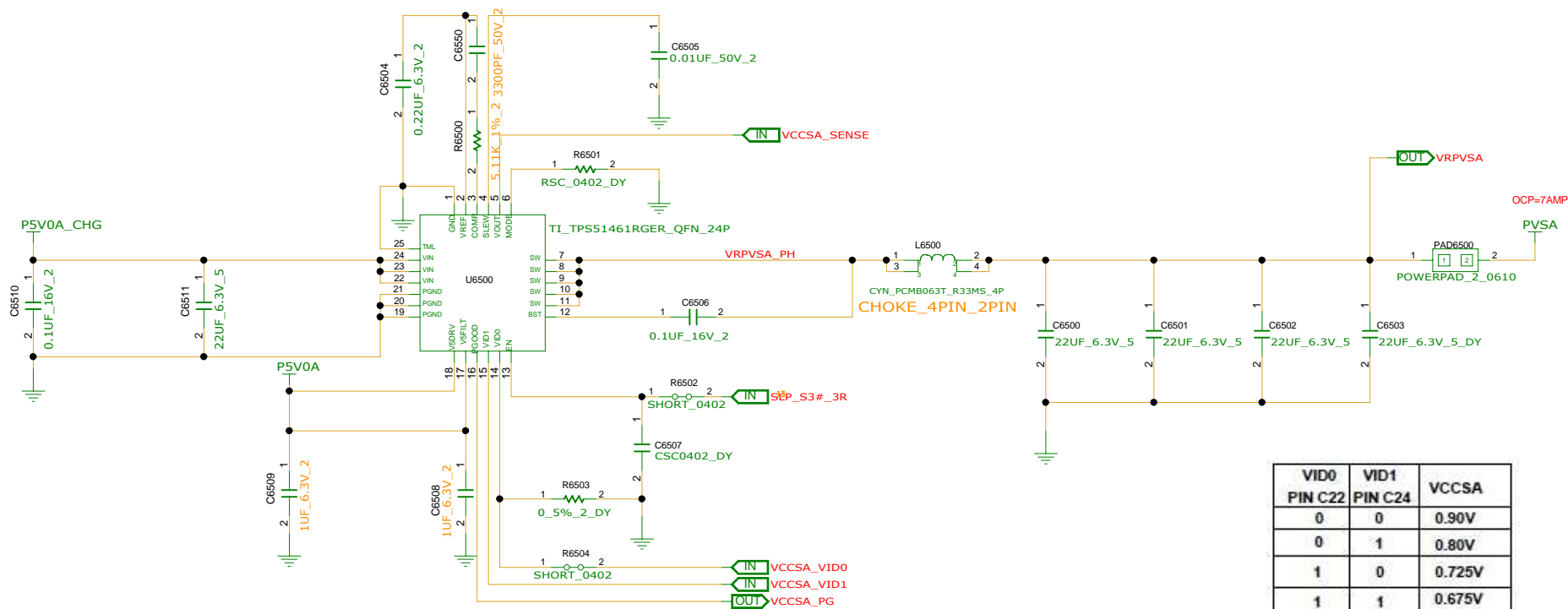
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TITLE CLAVIN DIS  
SYSTEM POWER(P1V8S)

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

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TITLE  
CLAVIN\_DIS  
SYSTEM POWER(PVSA)

DOCNUMBER  
1310A24700-0-ALG

REV  
D

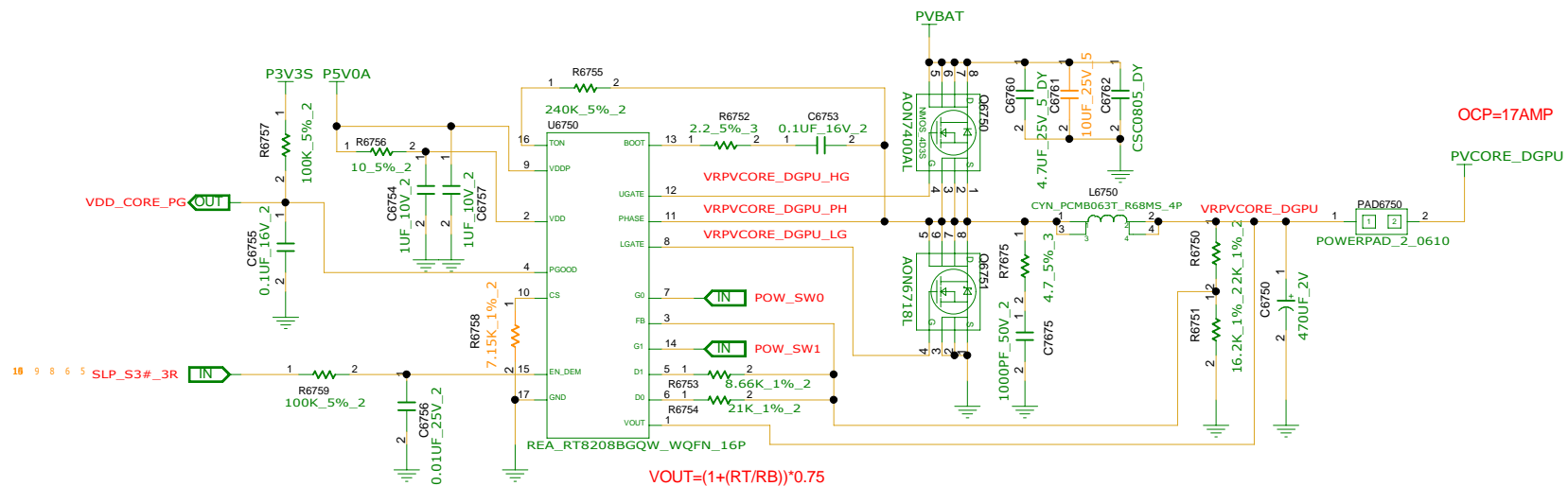
CHANGE by  
EDT\_CHEN

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

INVENTEC

TITLE CLAVIN DIS  
SYSTEM POWER(PVCORE\_DGPU)

DOCNUMBER 1310A24700-0-ALG

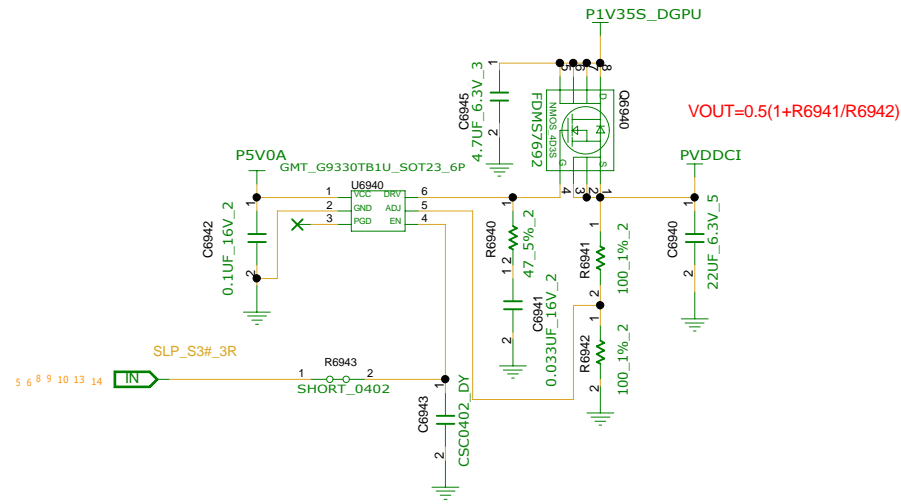
REV D

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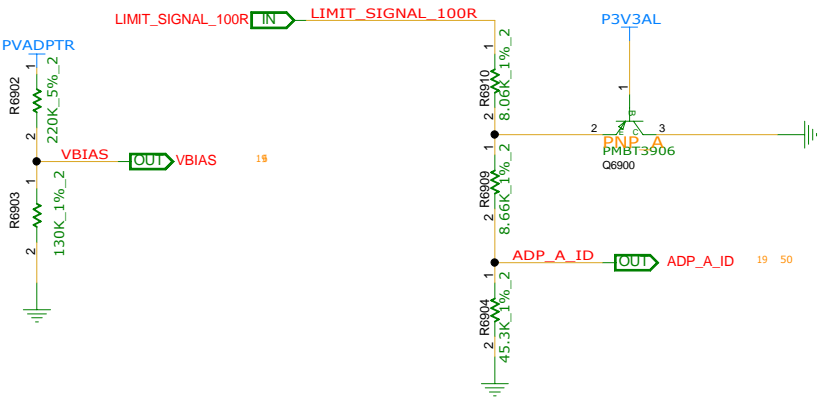


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TITLE			
CLAVIN DIS Block Diagram			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A24700-0-ALG	D

CHANGE by	EDT CHEN	DATE	23-APR-2012	SHEET	18 of 73
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REFERENCE NUMBER : 6900~6999



INVENTEC

TITLE  
CLAVIN\_DIS  
HP\_OCP

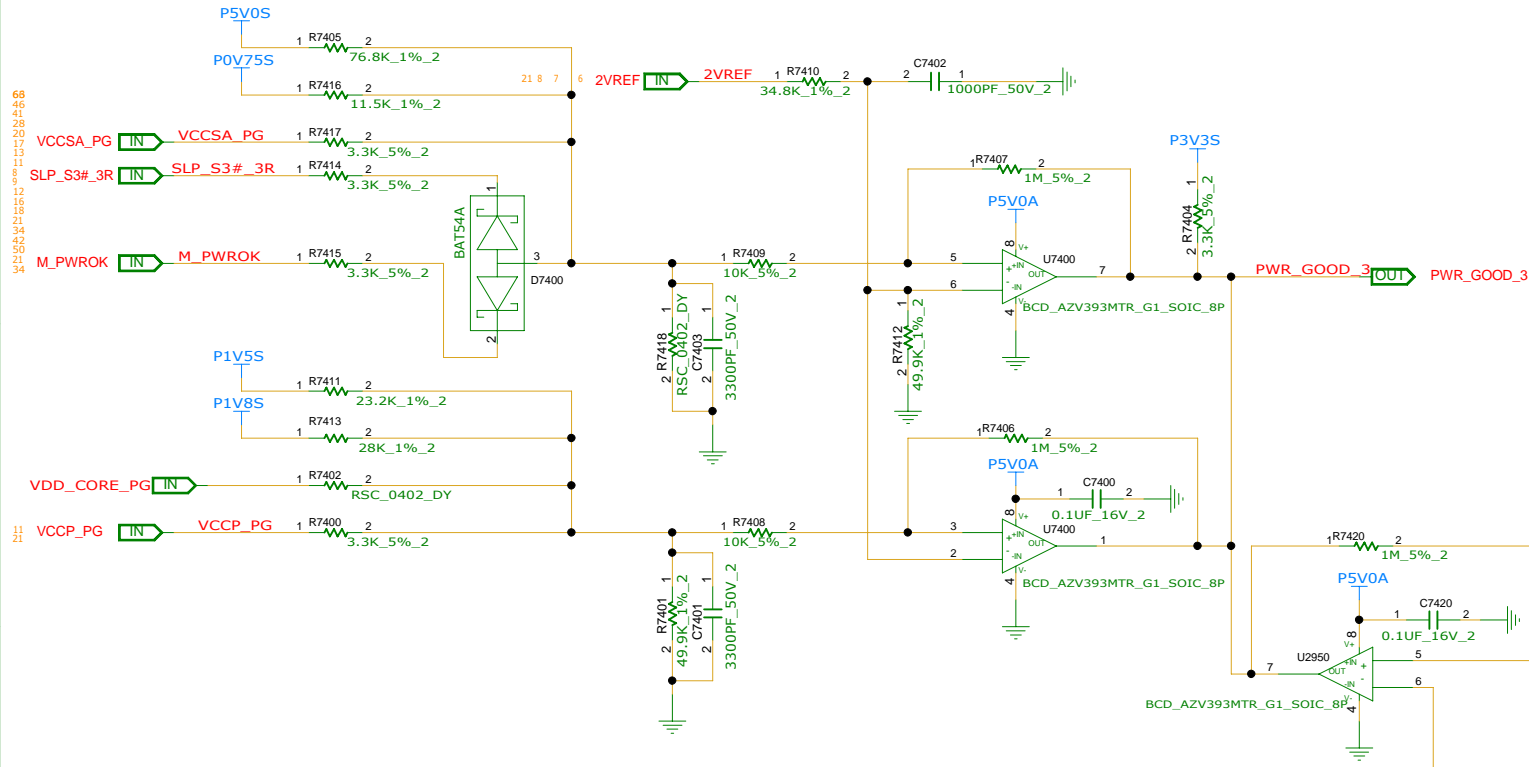
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CHANGE by EDI CHEN DATE 23-APR-2012

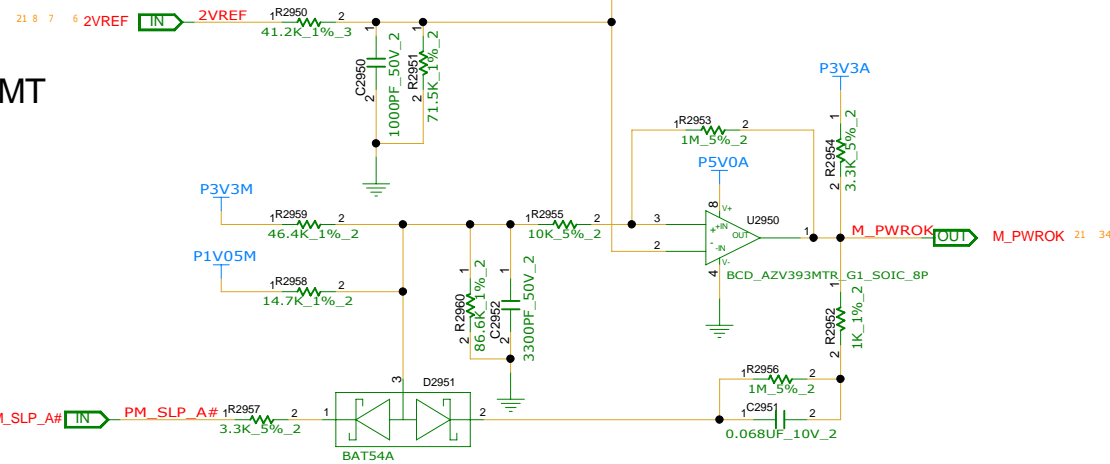
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REFERENCE NUMER : 7400~7450



FOR IAMT



REFERENCE NUMER : 2950~2999

INVENTEC

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

CHANGE by EDI CHEN

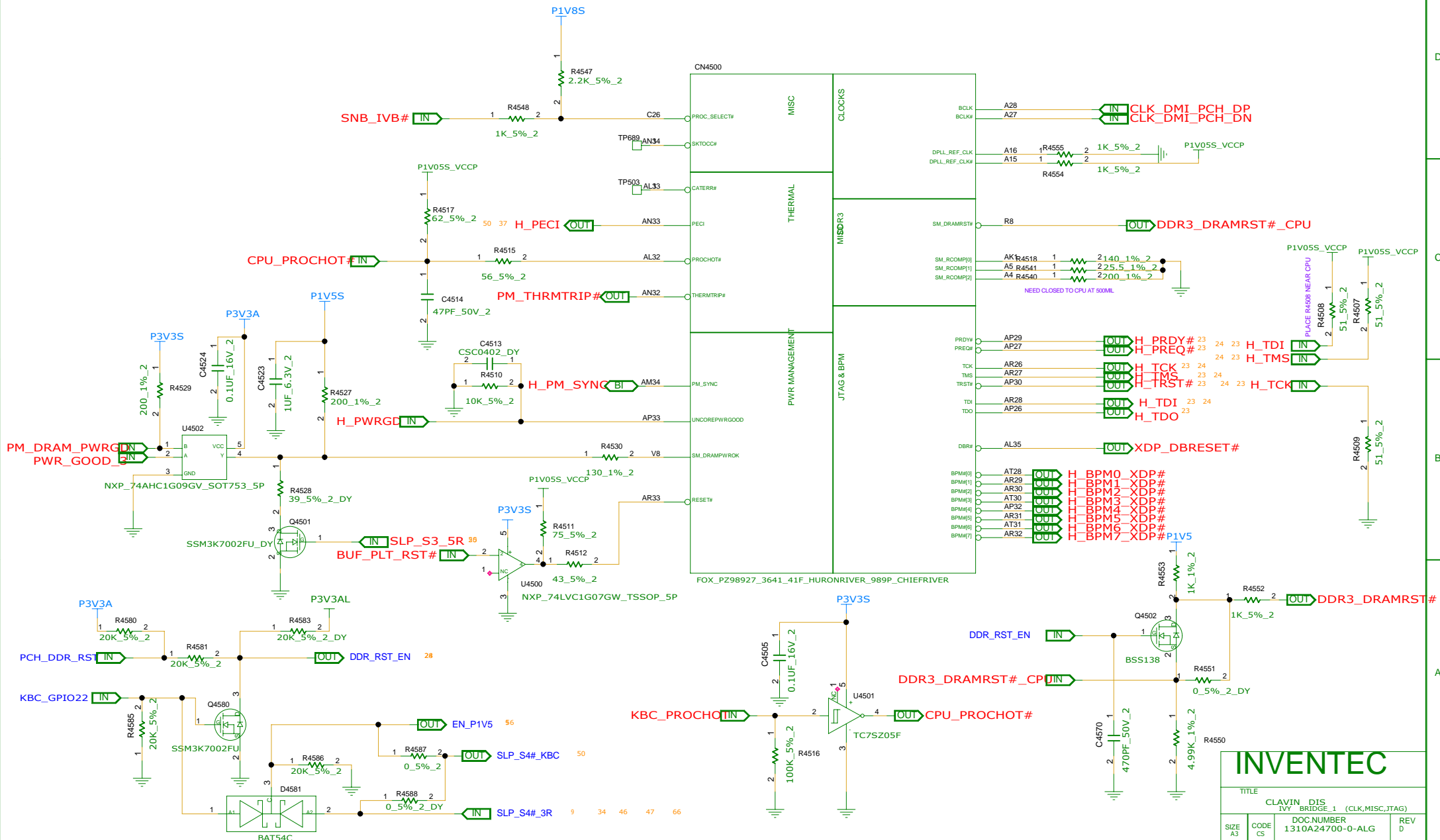
DATE 23-APR-2012

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REFERENCE NUMBER:4500~4699



INVENTEC			
TITLE			
CLAVIN_DIS IVY BRIDGE 1 (CLK,MISC,JTAG)			
SIZE			
A3	CODE	CS	REV
DOC NUMBER			
1310A24700-0-ALG			
SHEET			
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REFERENCE NUMBER:4500~4699

PVCORE

CN4500

POWER

CORE SUPPLY

SVID

SENSE LINES

PEG AND DDR

P1V05S\_VCCP

330UF\_2V\_9MR\_PANA\_-35%

R4514,R4525,R4524 CLOSE TO CPU

P1V05S\_VCCP

PVCORE

P1V05S\_VCCP

ROUTE VCCSENSE & VSSSENSE WITH 27.4OHM IMPEDANCE

VTT SENSE  
VSS SENSE\_VTT

VR\_SVID\_ALERT#  
VR\_SVID\_CLK  
VR\_SVID\_DATA

VCCSENSE  
VSSSENSE

INVENTEC

TITLE			
CLAVIN_DIS I_VY BRIDGE 2 (POWER)			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A24700-0-ALG	D

CHANGE by EDI\_CHEN

DATE 23-APR-2012

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

D

C

B

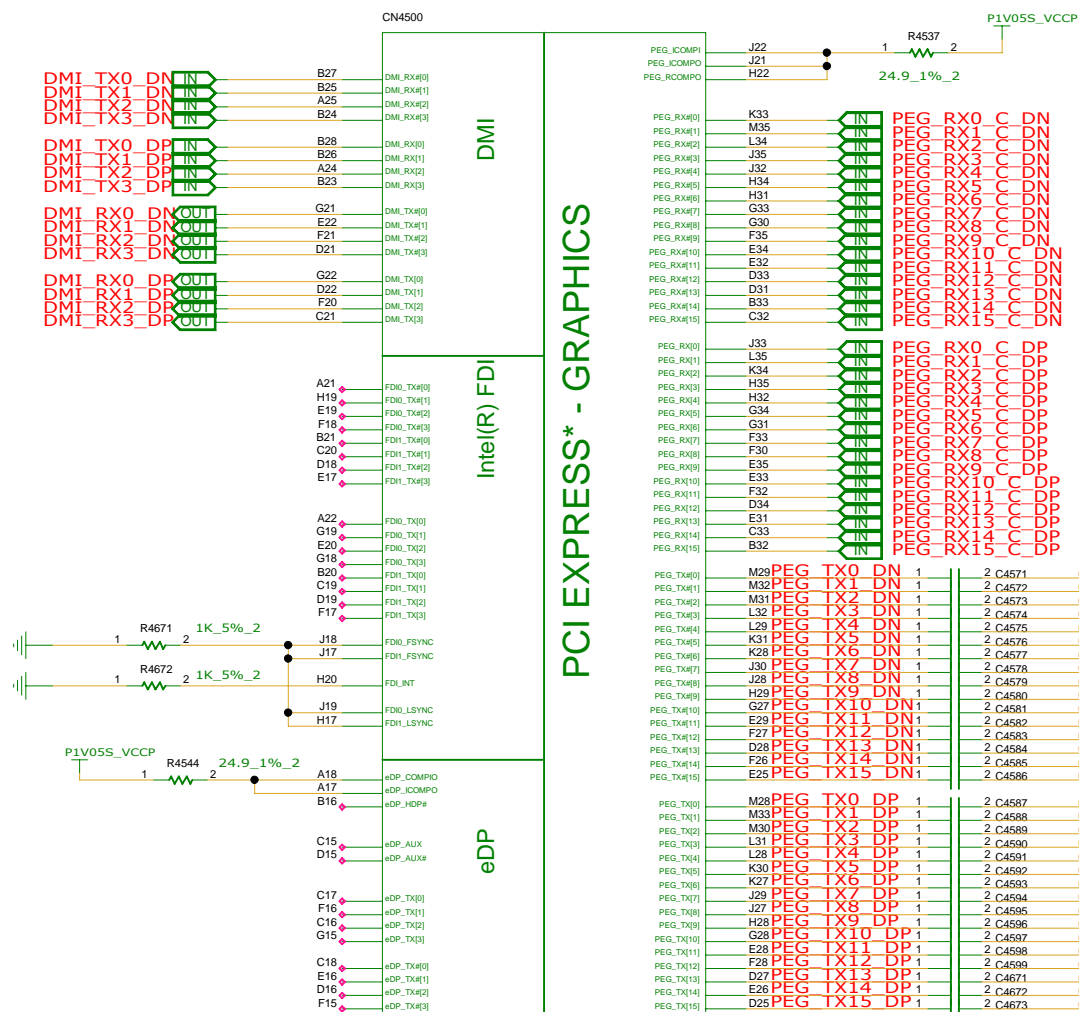
A

D

C

B

A



REFERENCE NUMBER:4500~4699

INVENTEC

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

DOC NUMBER  
1310A24700-0-ALG

REV  
D

CHANGE by  
FDI\_CHEN

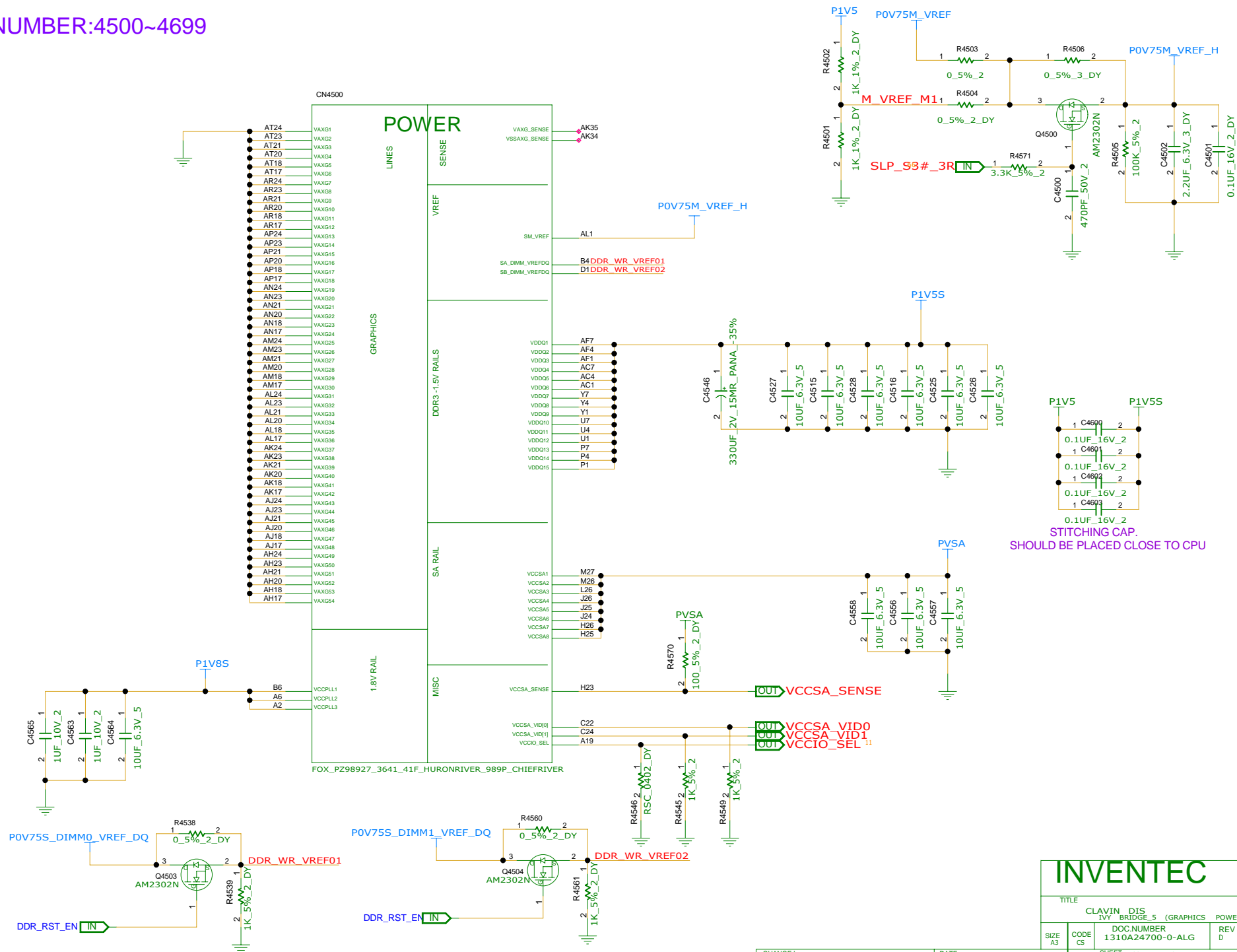
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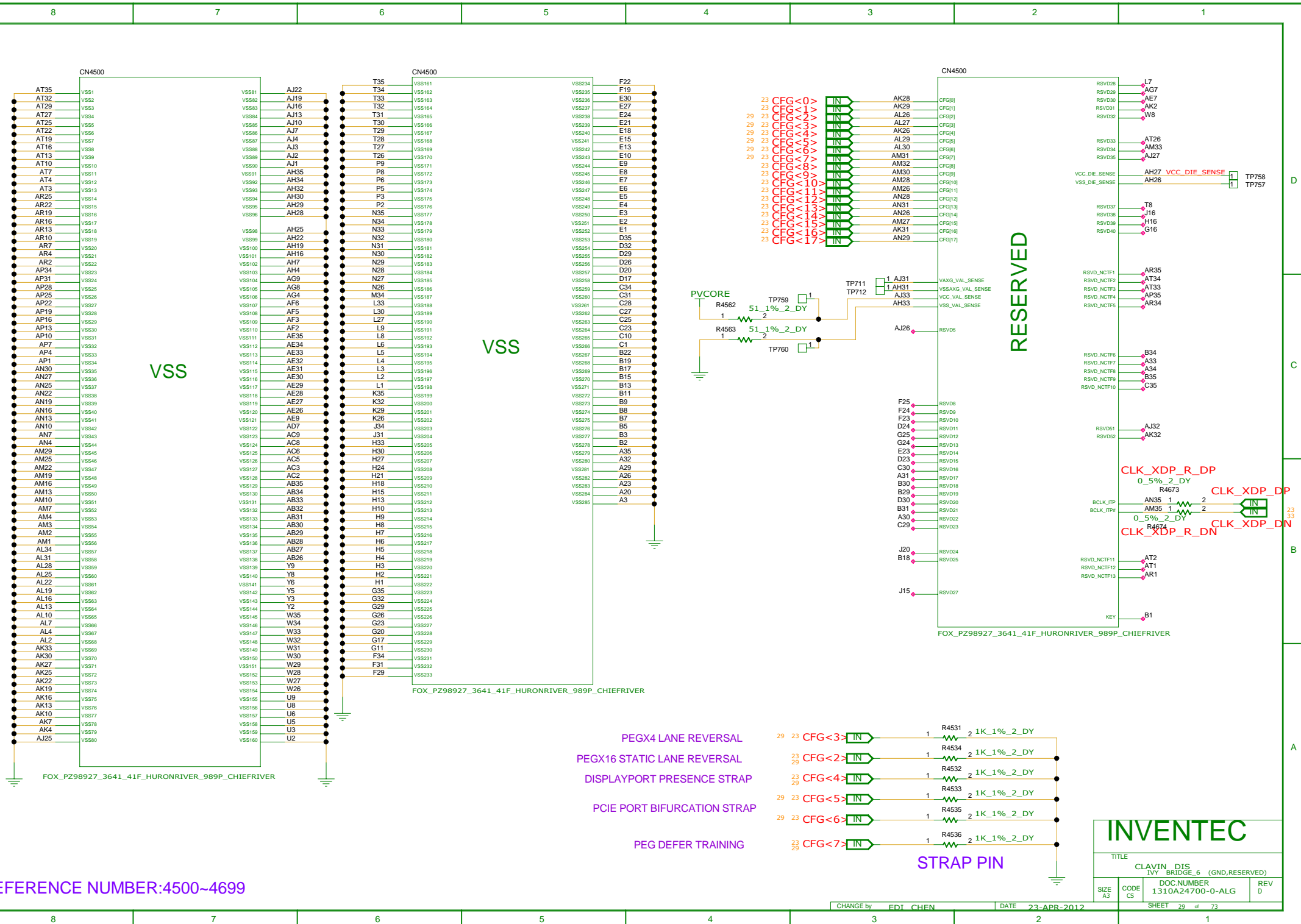
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WWW.AliSaler.Com



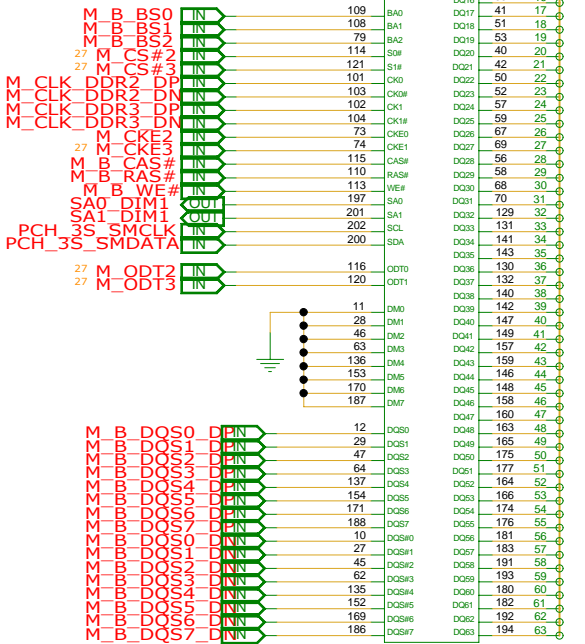
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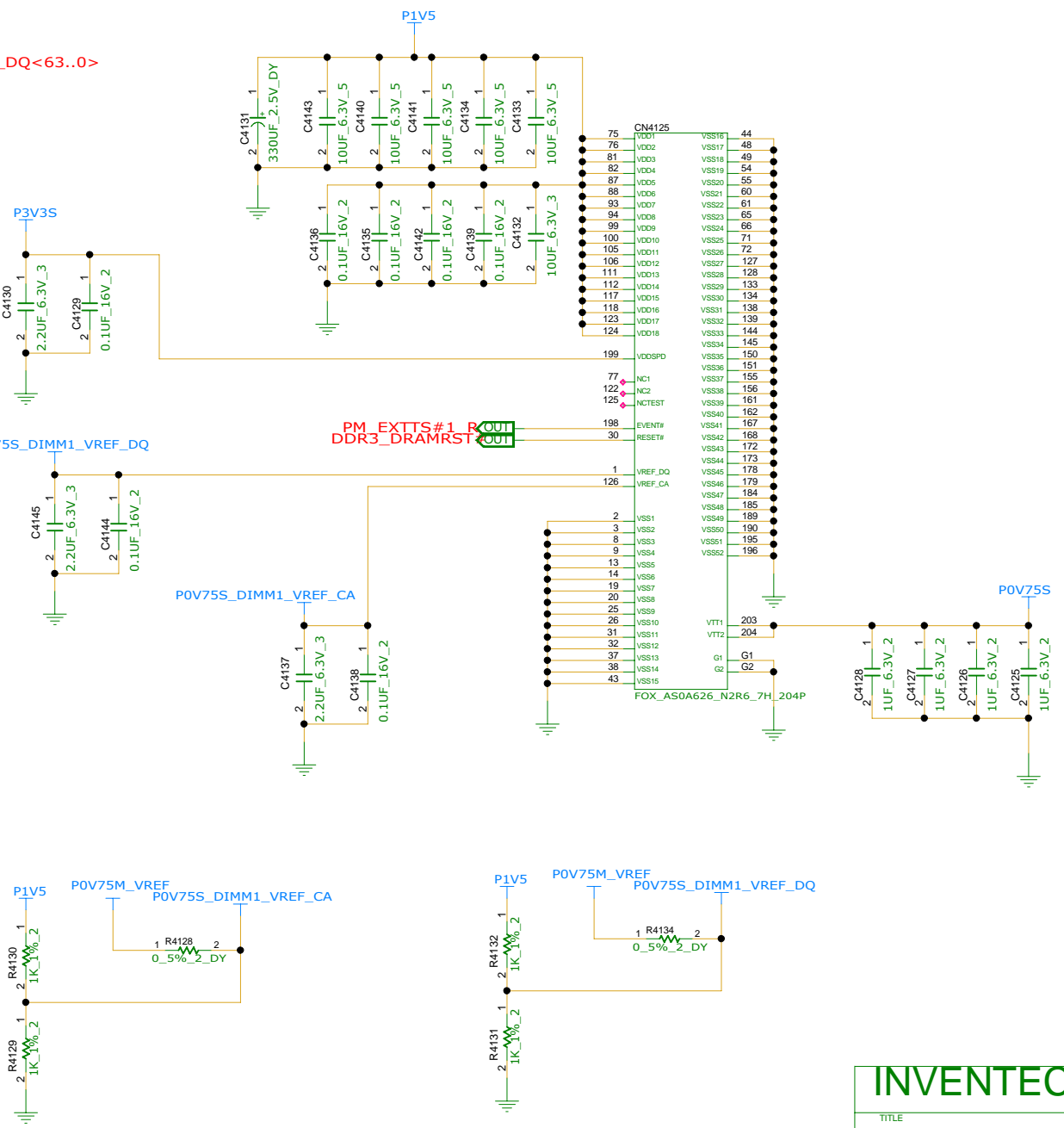
M\_B\_A<15..0> BI M\_B\_DQ<63..0> BI



FOX\_AS0A626\_N2R6\_7H\_204P  
CN4675:6026B0182502

NOTE:  
SO-DIMMB SPD ADDRESS IS 0XA4  
SO-DIMMB TS ADDRESS IS 0X34

REFERENCE NUMBER:4100~4299

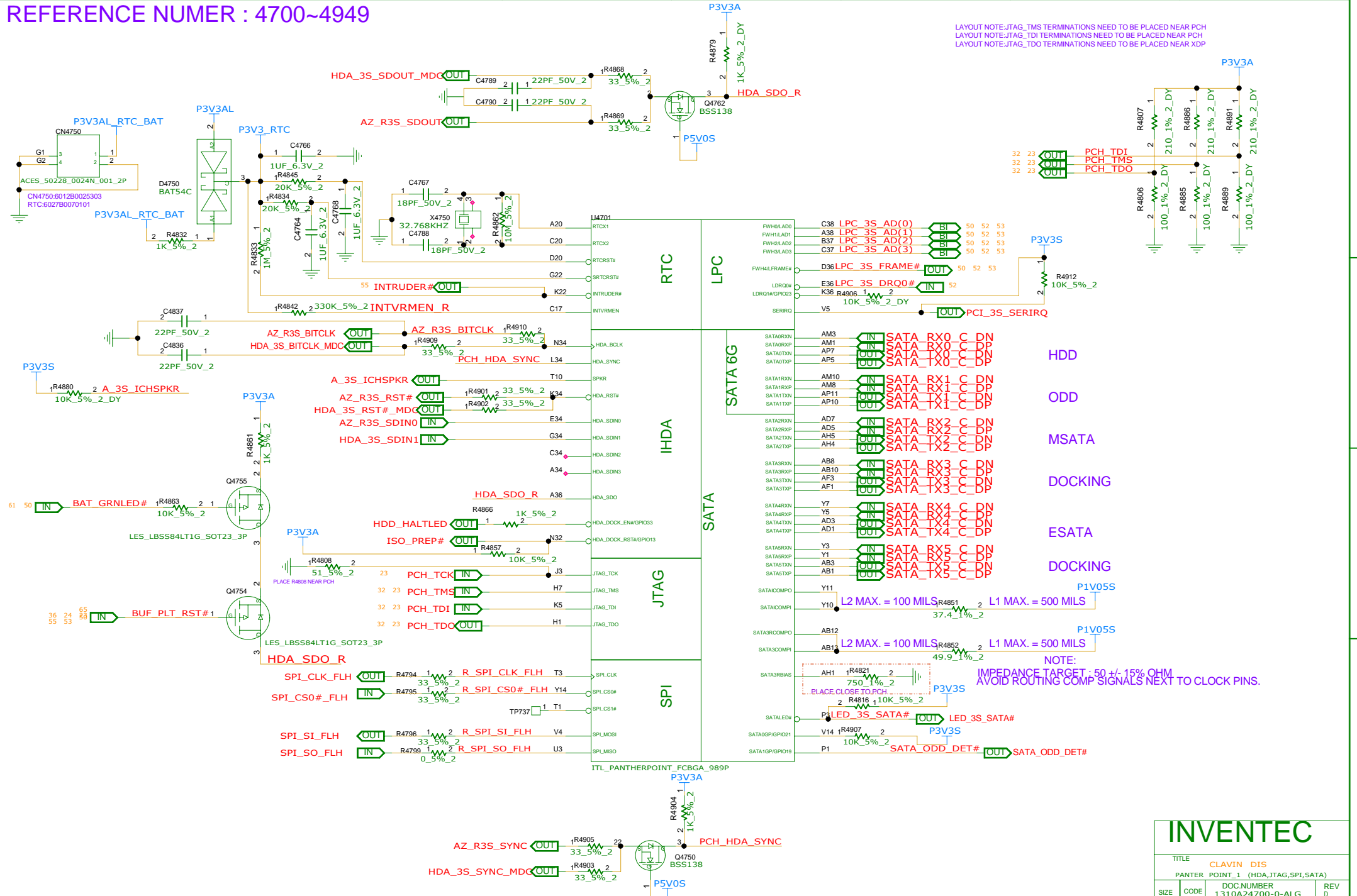


INVENTEC			
TITLE			
CLAVIN_DIS			
DDR3_SO-DIMM1			
DOC NUMBER			
1310A24700-0-ALG			
REV D			
SIZE A3	CODE CS	SHEET 31 of 73	



REFERENCE NUMER : 4700~4949

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



INVENTEC			
TITLE	CLAVIN DIS		
PANTER	POINT_1 (HDA,JTAG,SPI,SATA)		
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A24700-0-ALG	D
SHEET 32 of 73			



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## NIC

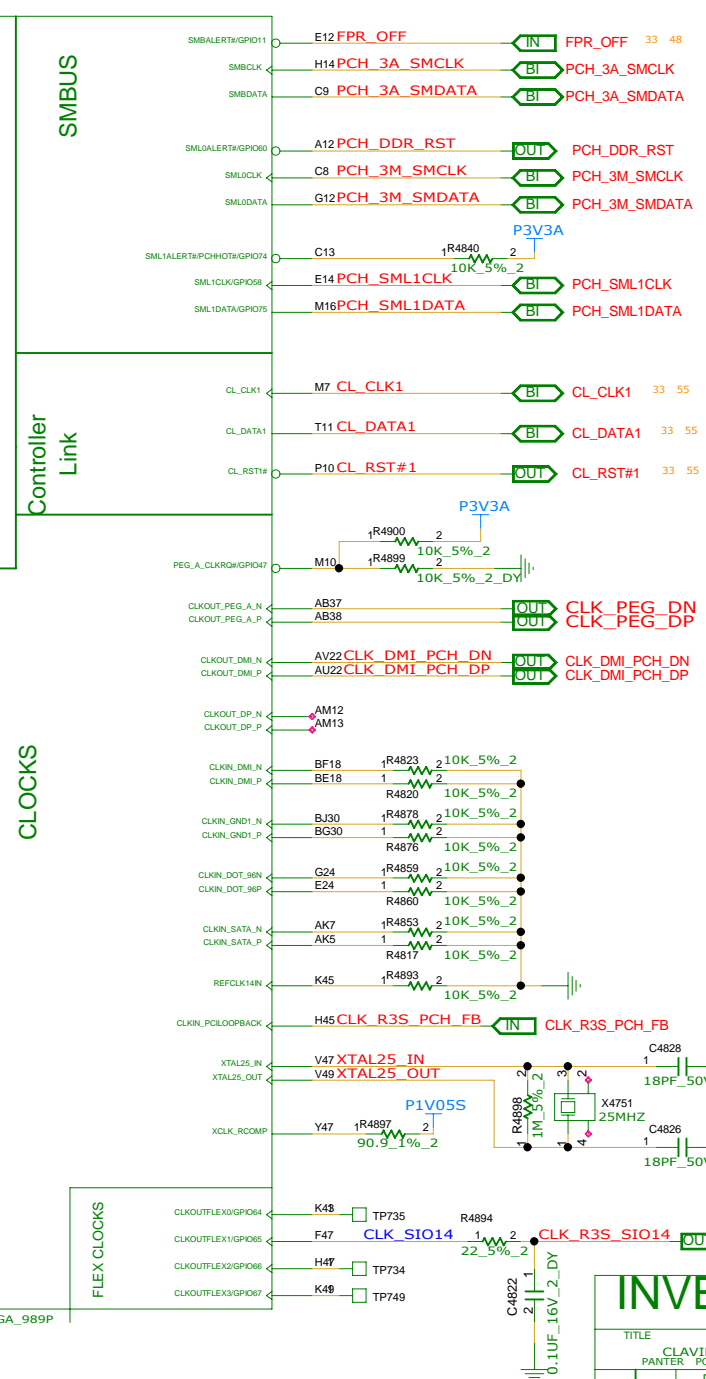


PCI-E\*

**L**

clocks

## FLEX CLOCKS



# INVENTEC

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

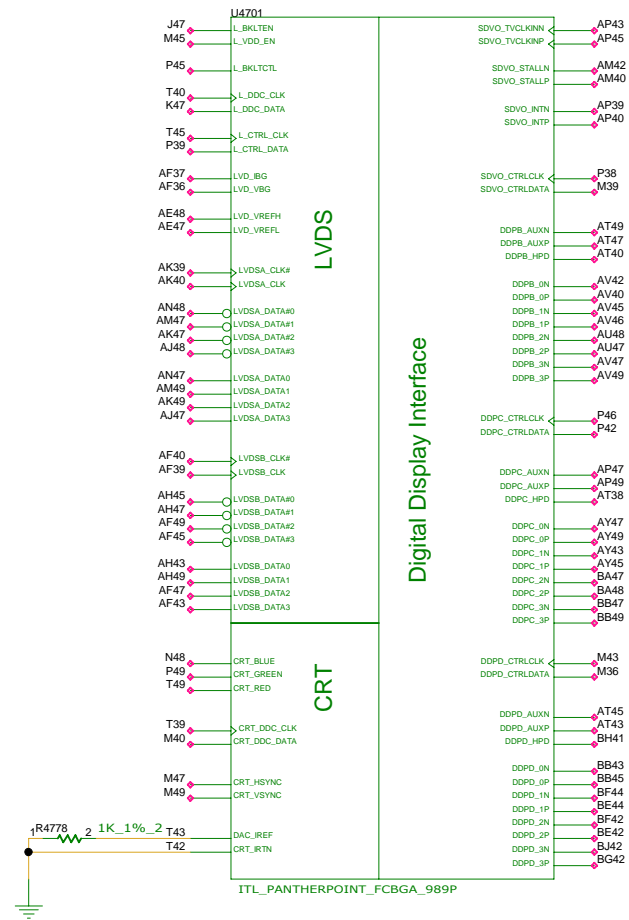
CHANGE by EDI CHEN

DATE	23-APR-2012
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REFERENCE NUMER : 4700~4949

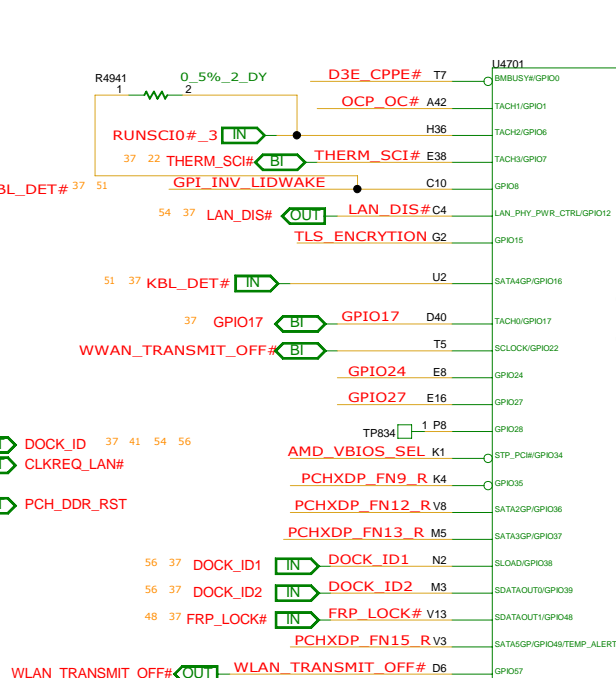
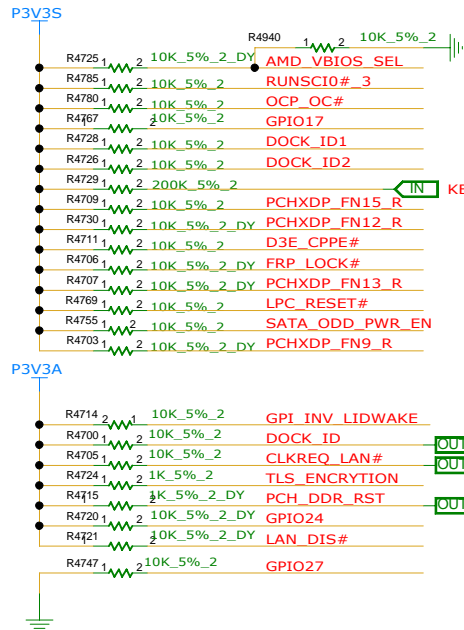
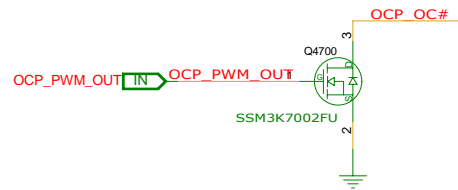


INVENTEC			
TITLE			
CLAVIN DIS PANTHER POINT_4 (LVDS,DDI)			
SIZE A3	CODE CS	DOCNUMBER 1310A24700-0-ALG	REV D



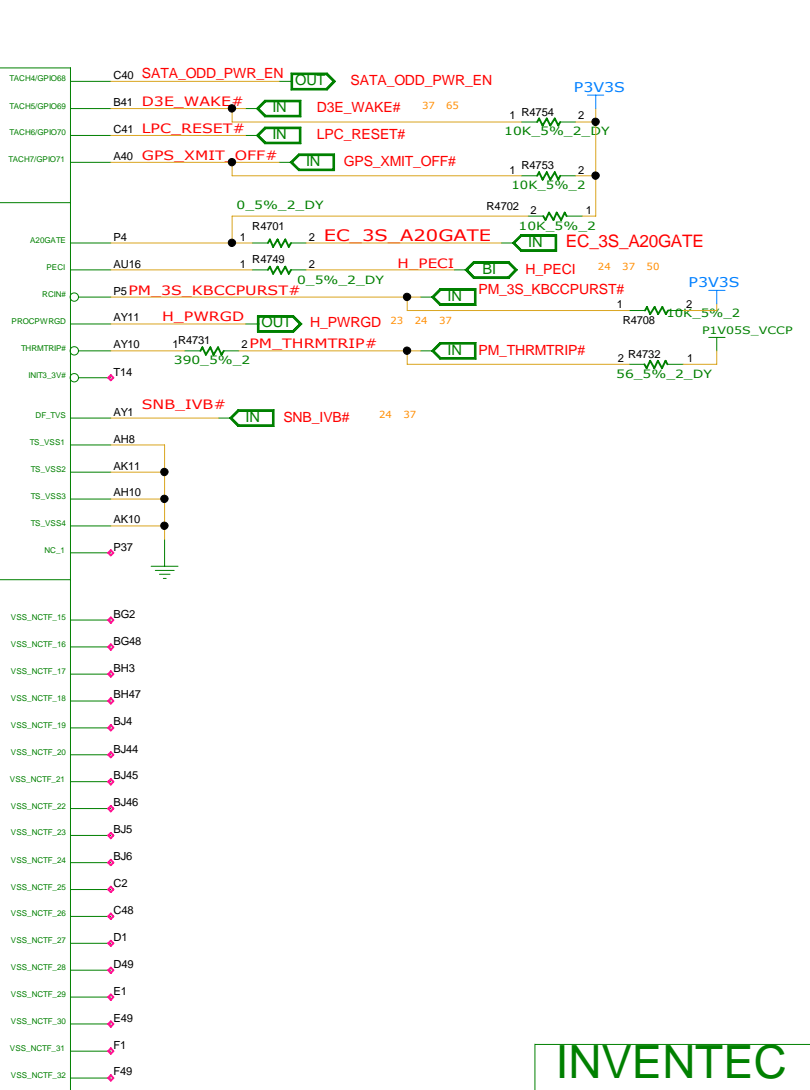
# REFERENCE NUMER : 4700~4949

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



GPIO

CPU/MISC

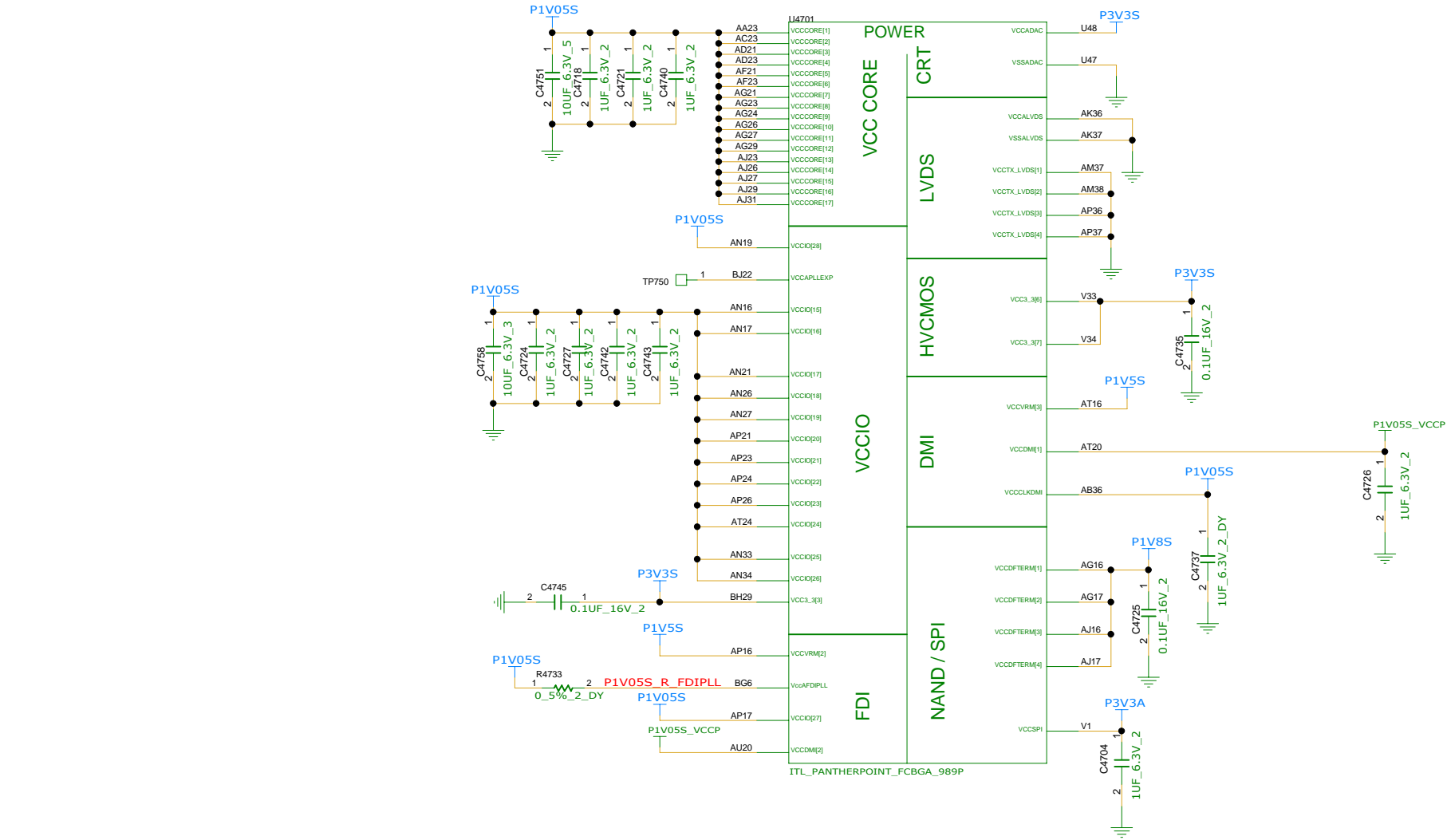


NCTF

INVENTEC

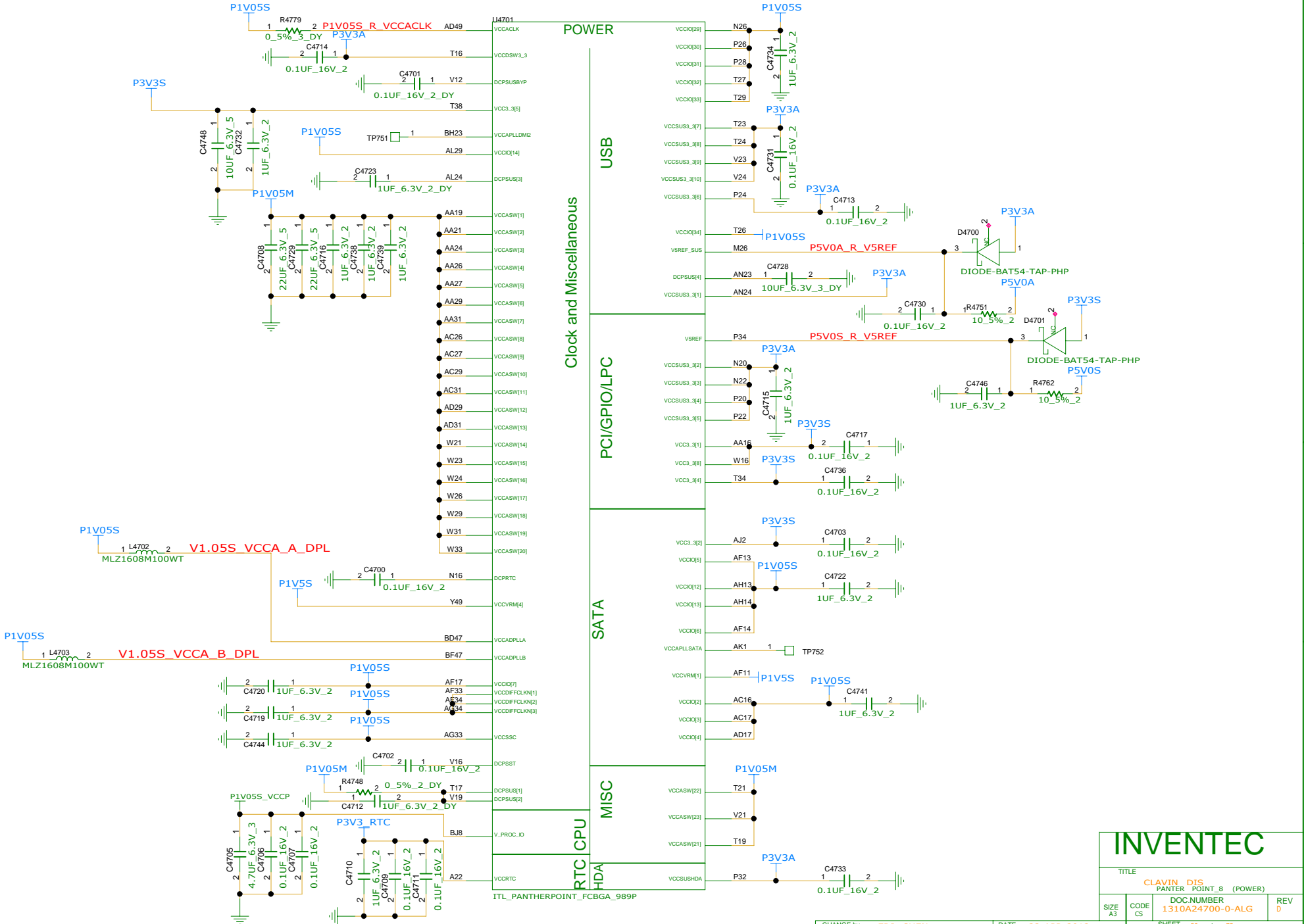
TITLE	CLAVIN DIS
PANTER	POINT_6 (GPIO,VSS_NCTF,RSVD)
DOC NUMBER	1310A24700-0-ALG
REV	D

REFERENCE NUMER : 4700~4949



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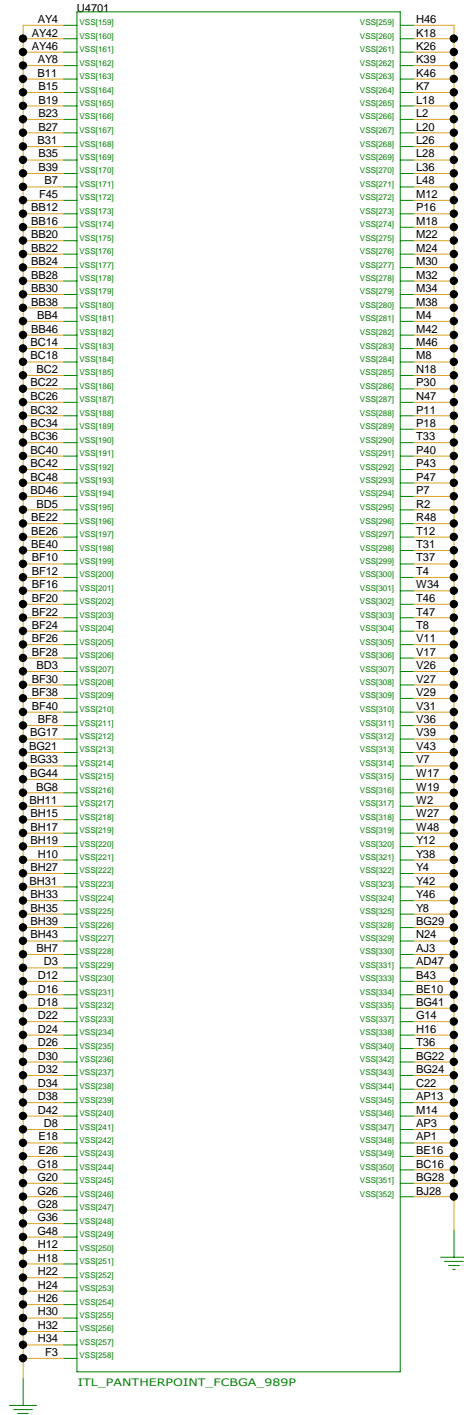
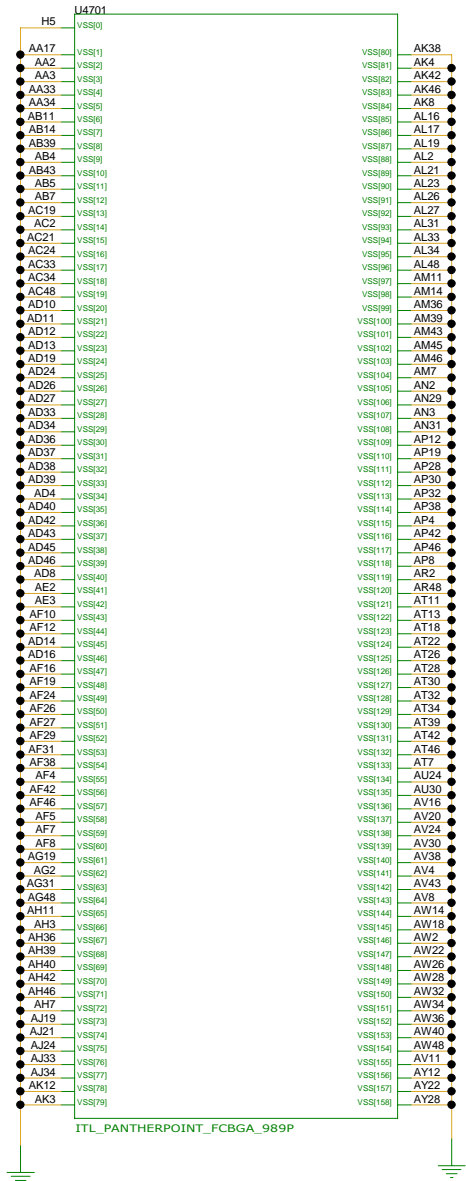
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INVENTEC

TITLE			
CLAVIN DIS PANTHER POINT_8 (POWER)			
DOC NUMBER 1310A24700-0-ALG			
SIZE A3	CODE CS	REV D	

REFERENCE NUMBER : 4700~4949



INVENTEC

TITLE  
CLAVIN DIS  
PANTER POINT 9 (GND)

DOC NUMBER  
1310A24700-0-ALG

REV  
D

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CHANGE by  
EDT CHEN

DATE  
23-APR-2012









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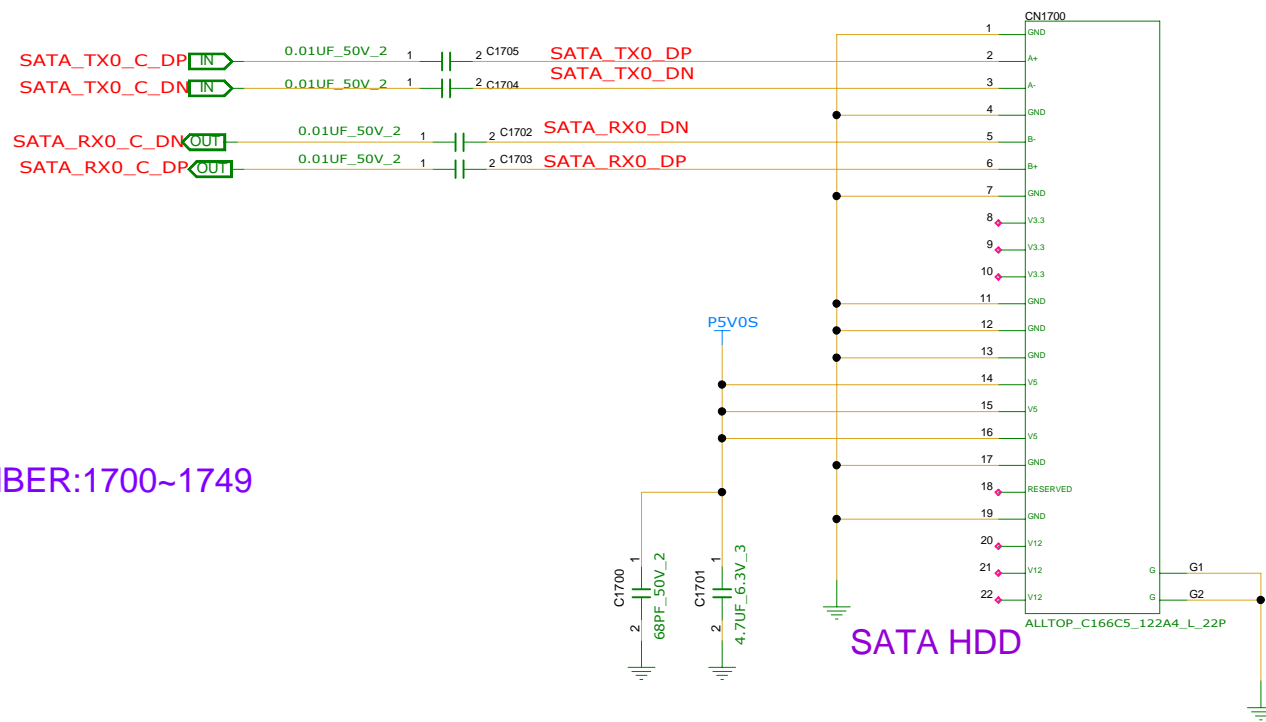
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INVENTEC

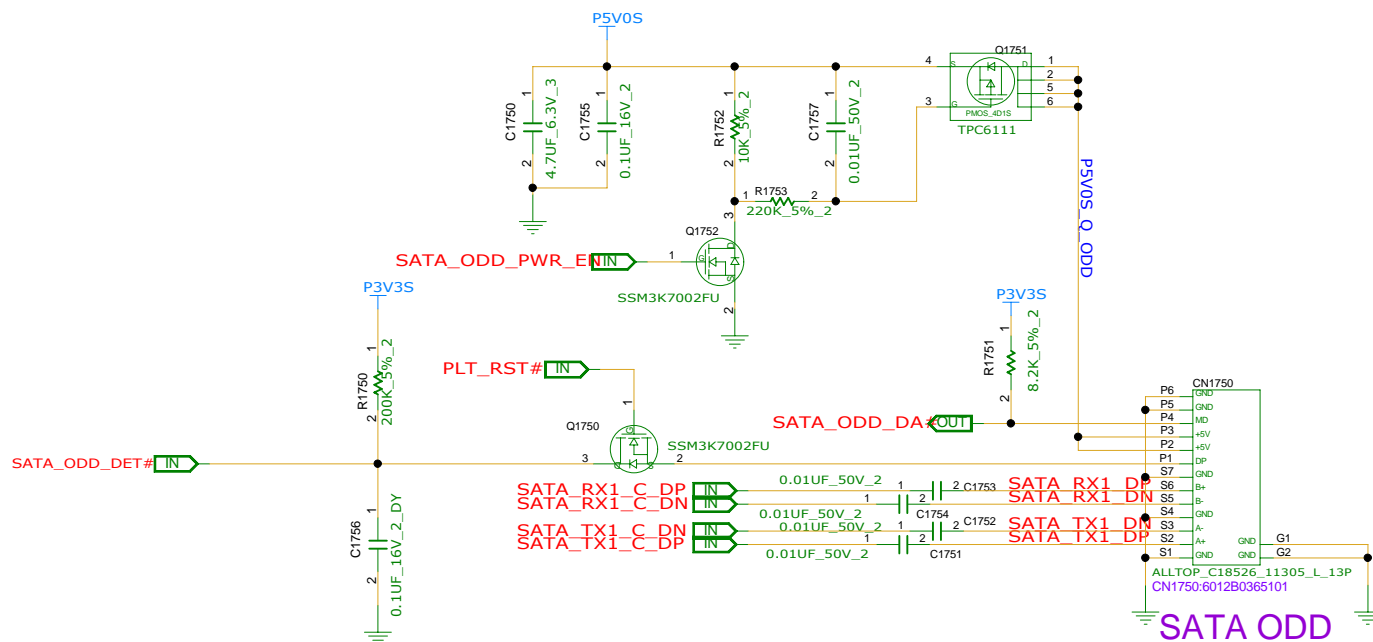
TITLE CLAVIN _DIS EDP TO LVDS			
SIZE A3	CODE CS	DOC NUMBER 1310A24700-0-ALG	REV D

CHANGE by EDI CHEN DATE 23-APR-2012

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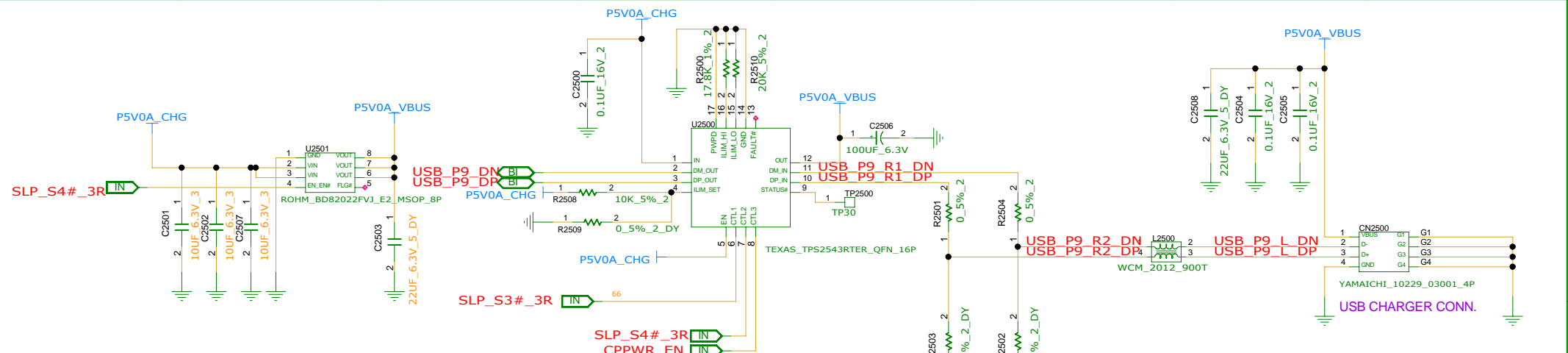


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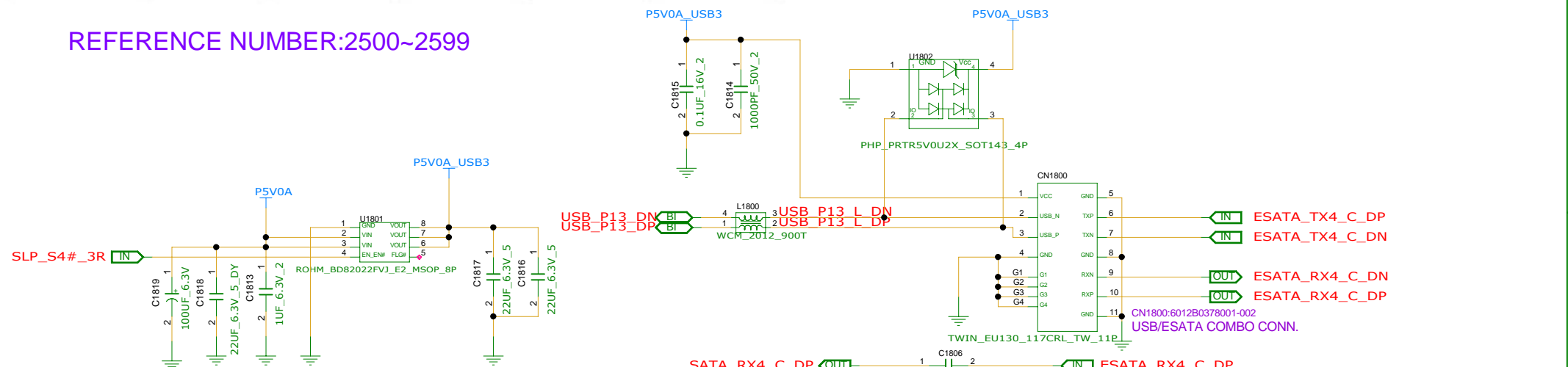
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INVENTEC			
TITLE			
CLAVIN DIS SATA HDD & ODD CNTR			
SIZE A3	CODE CS	DOC NUMBER 1310A24700-0-ALG	REV D
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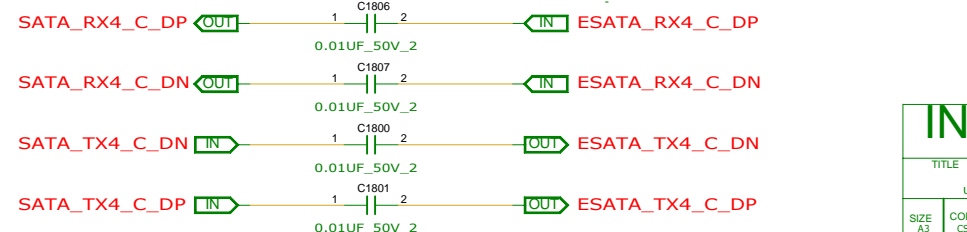


	R2510	R2508	R2509	R2511	R2512
TPS2543	20K	10K	NI	0	NI
TPS2540/A	NI	NI	0	0	NI
PI5USB2543	NI	NI	0	NI	0

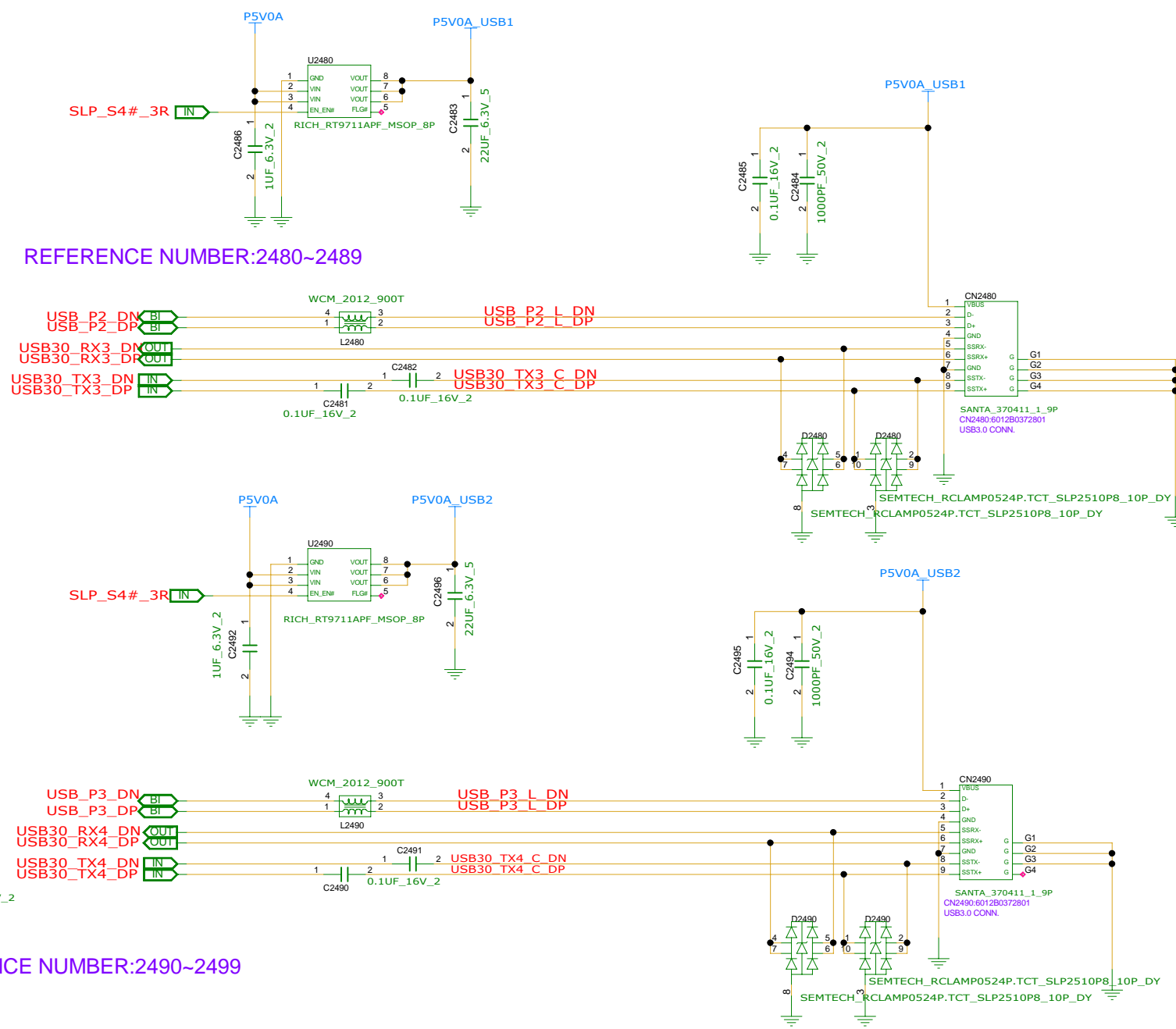
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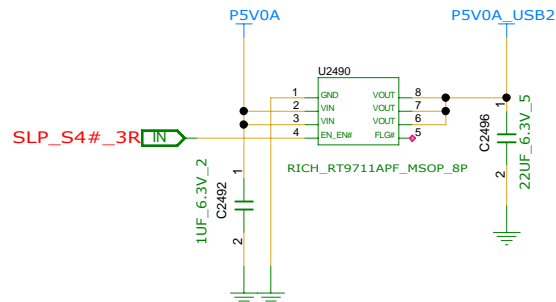


INVENTEC			
TITLE CLAVIN DIS USB & ESATA COMBO / USB CHARGER			
SIZE A3	CODE CS	DOC NUMBER 1310A24700-0-ALG	REV D
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REFERENCE NUMBER:2480~2489

USB\_P2\_DN  
USB\_P2\_DP  
USB30\_RX3\_DN  
USB30\_RX3\_DP  
USB30\_TX3\_DN  
USB30\_TX3\_DP  
USB30\_TX3\_C\_DN  
USB30\_TX3\_C\_DP



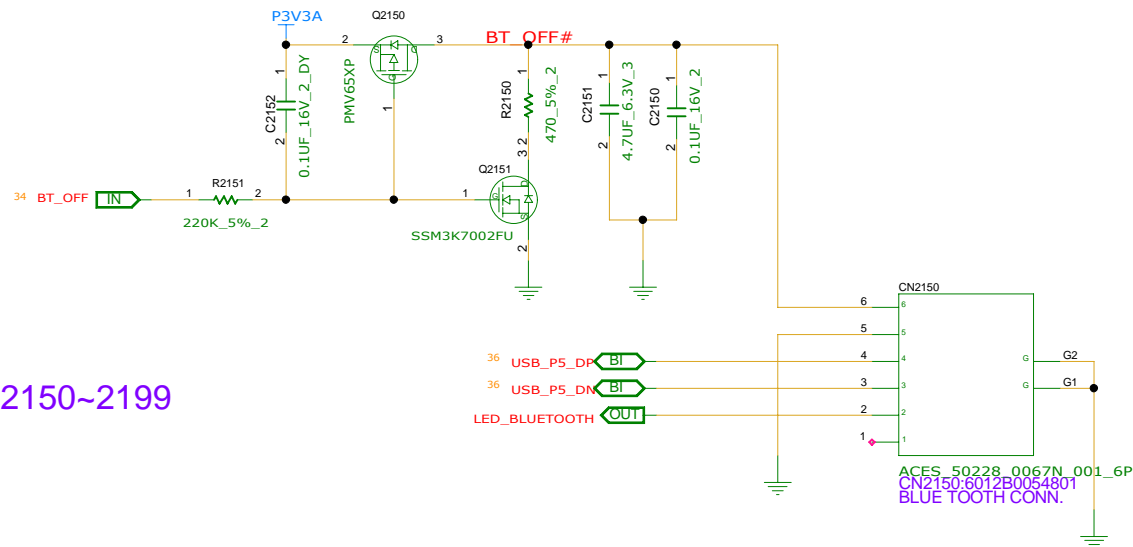
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USB\_P3\_DP  
USB30\_RX4\_DN  
USB30\_RX4\_DP  
USB30\_TX4\_DN  
USB30\_TX4\_DP  
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USB30\_TX4\_C\_DP

REFERENCE NUMBER:2490~2499

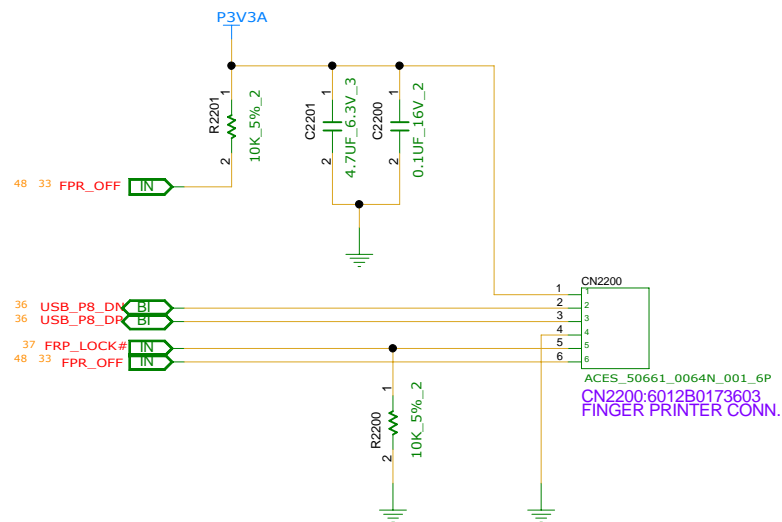
INVENTEC

TITLE			
CLAVIN_DIS			
USB_CONN			
SIZE	CODE	DOCNUMBER	REV
A3	CS	1310A24700-0-ALG	D

REFERENCE:2150~2199



REFERENCE:2200~2249



INVENTEC

TITLE  
CLAVIN DIS  
BLUE TOOTH & FINGER PRINTER CNTR

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

CHANGE by EDI CHEN DATE 23-APR-2012

SHEET 48 of 73



D

C

B

A



C

B

A

INVENTEC

TITLE  
CLAVIN DIS  
ACCELFEMTOR

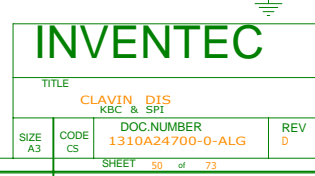
SIZE A3	CODE CS	DOC.NUMBER 1310A24700-0-ALG	REV D
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SHEET 49 of 73

CHANGE by	FDI CHEN	DATE	23-APR-2012
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8	7	6	5	4	3	2	1
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**WWW.AliSaler.Com**



REFERENCE NUMER : 300~389

D

D

C

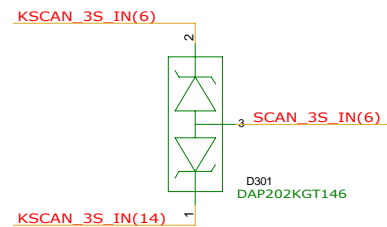
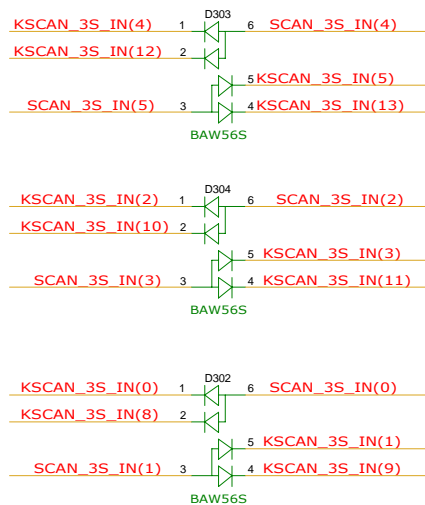
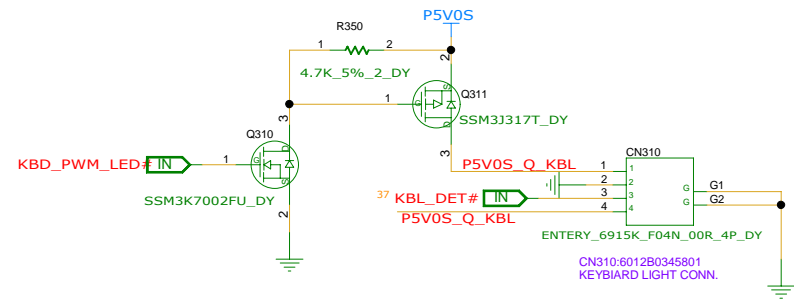
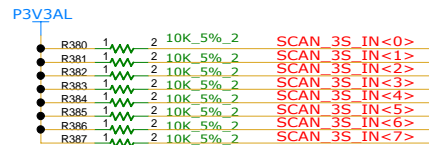
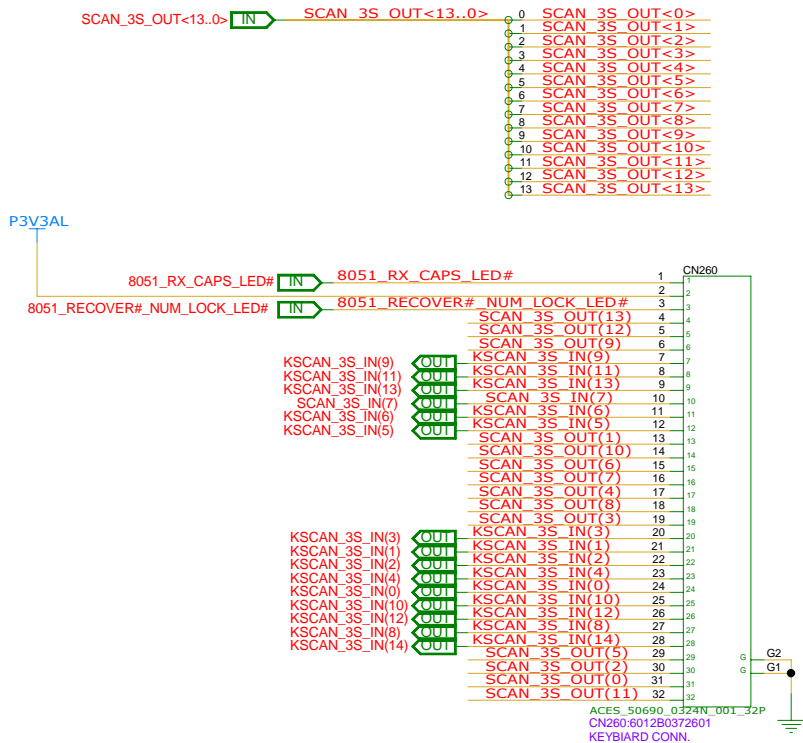
C

B

B

A

A

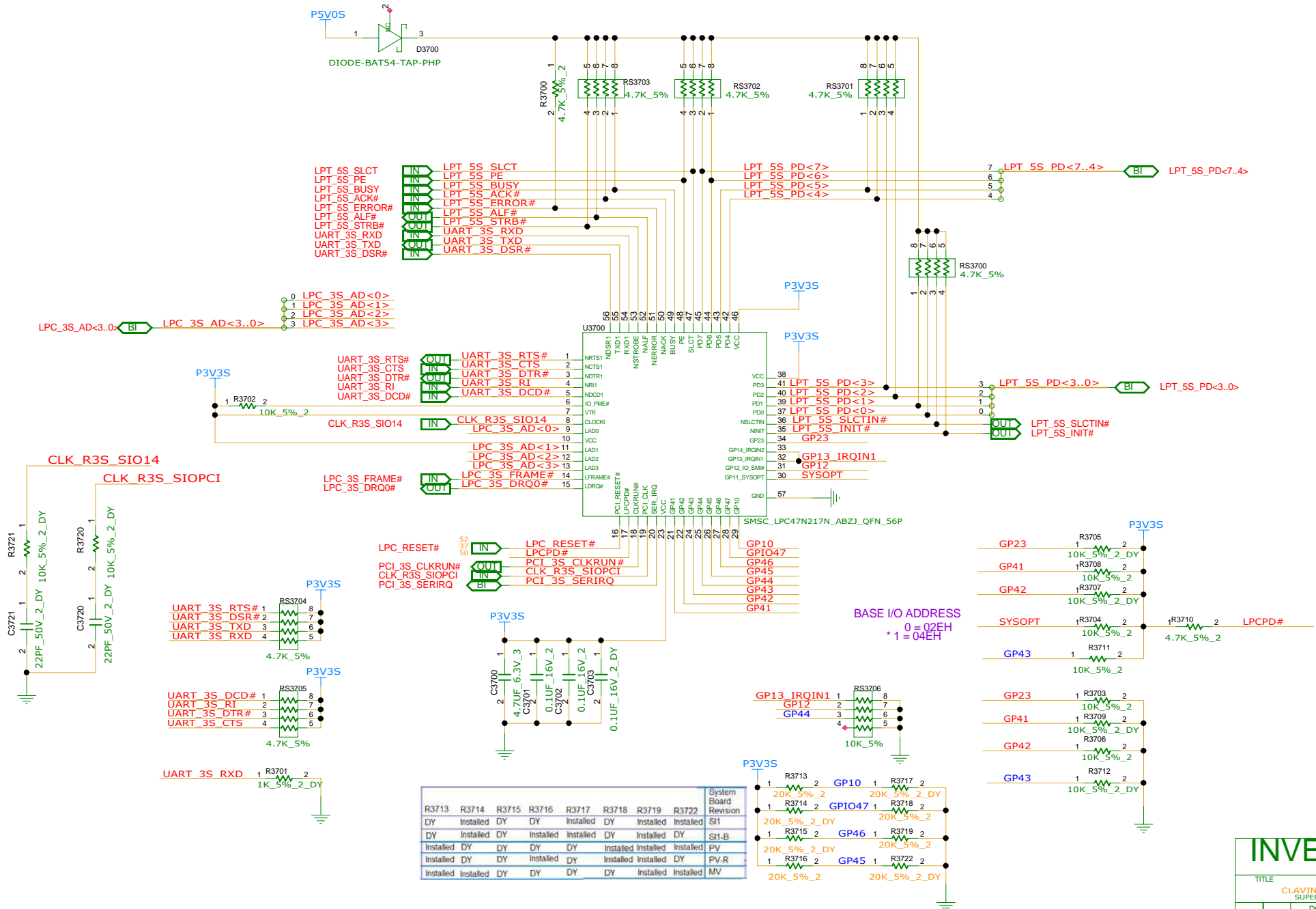


INVENTEC			
TITLE			
CLAVIN_DJS KEYBOARD			
SIZE	CODE	DOCNUMBER	REV
A3	CS	1310A24700-0-ALG	D

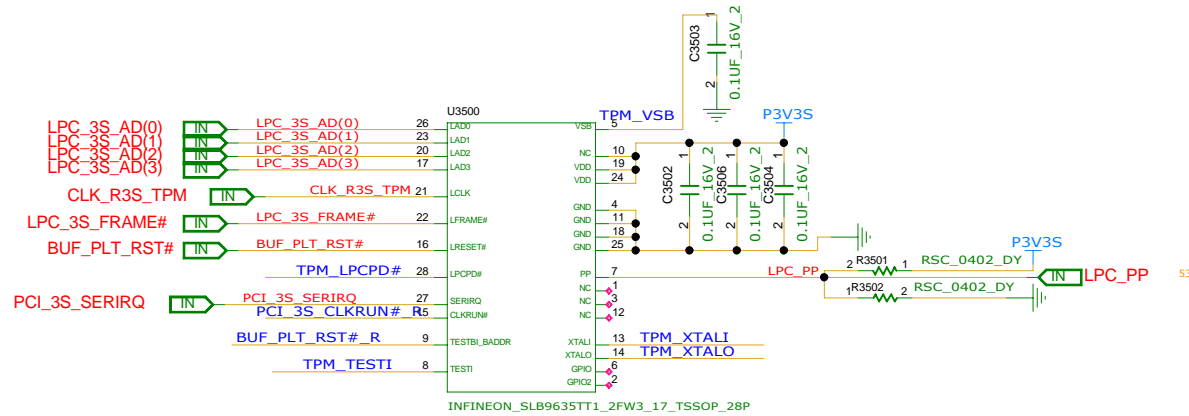
CHANGE by EDI\_CHEN DATE 23-APR-2012

SHEET 51 of 73

# REFERENCE NUMER : 3700~3799

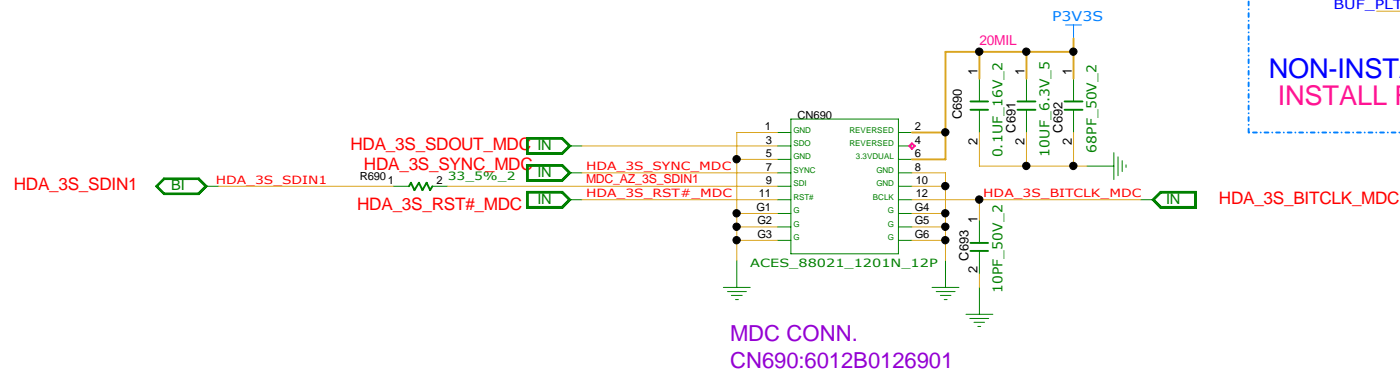


REFERENCE NUMER : 3500~3549



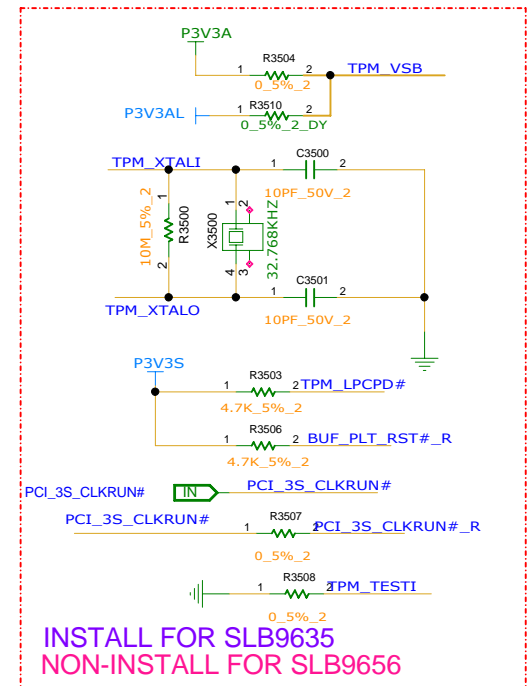
TPM1.2

REFERENCE NUMER : 650~699



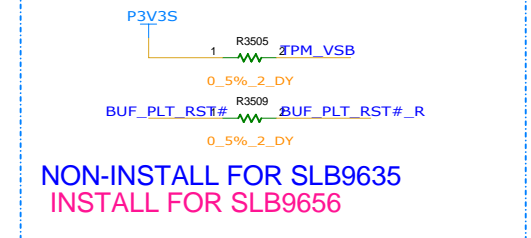
MDC CONN.  
CN690:6012B0126901

SLB9635SLB9656		
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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

## D



## B

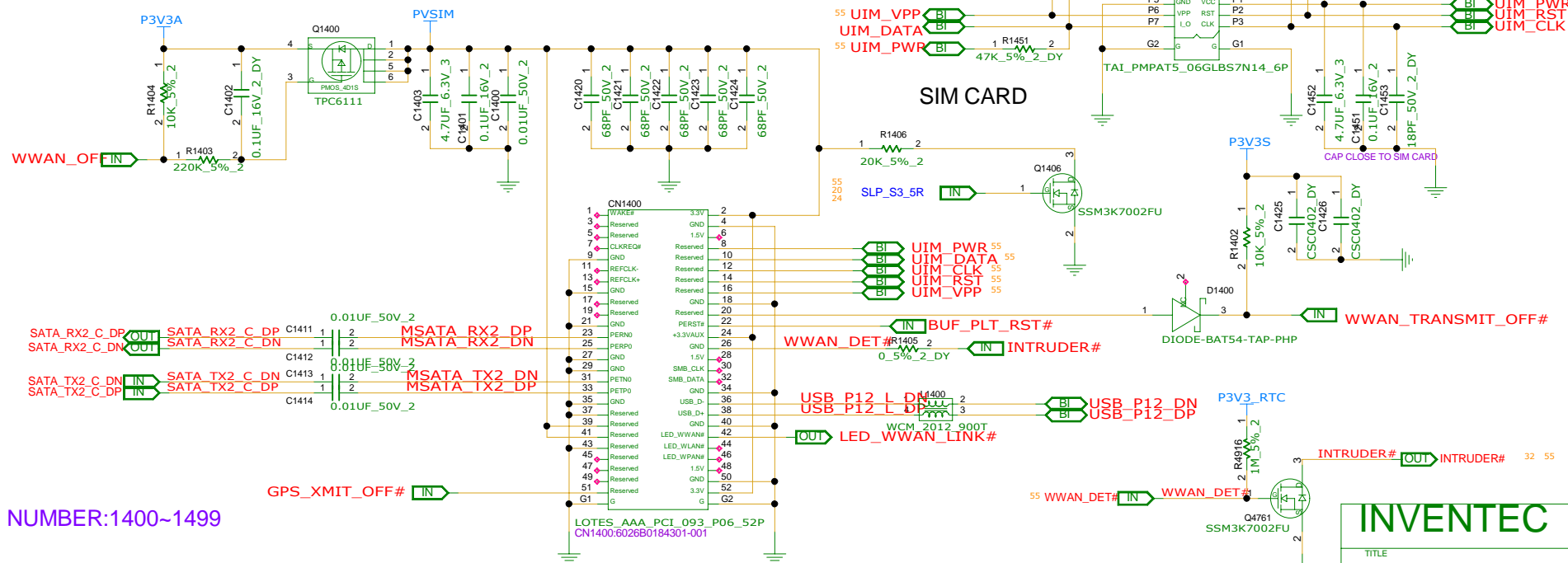
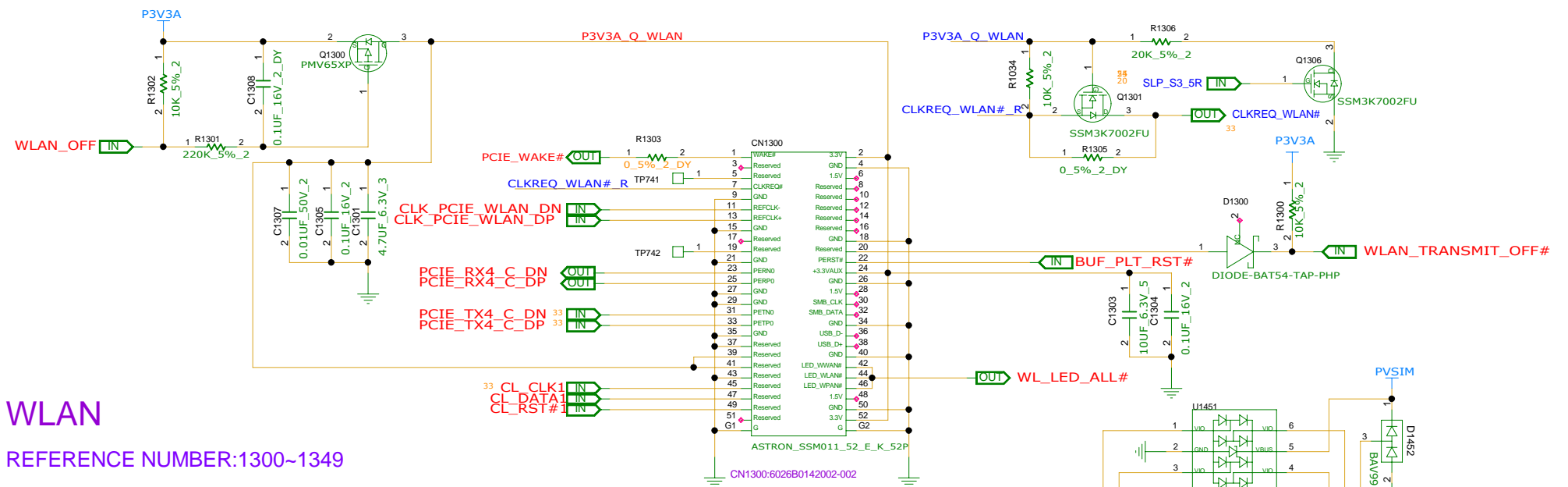


A

A

SHEET 54 of 73

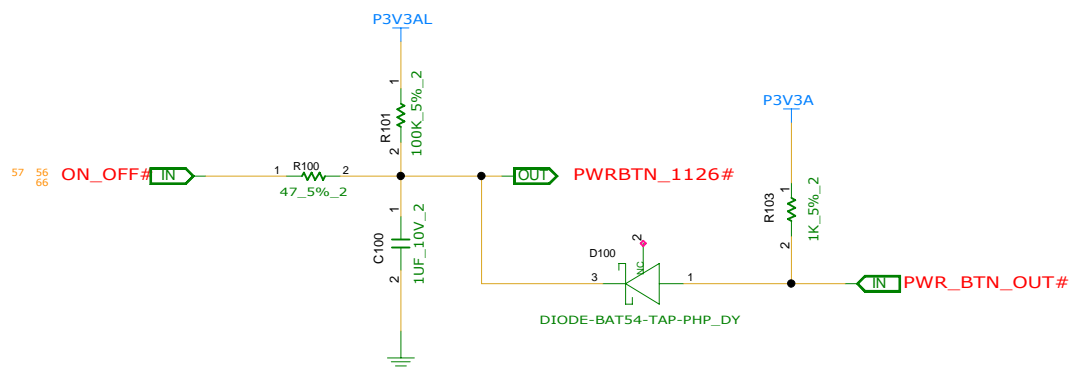
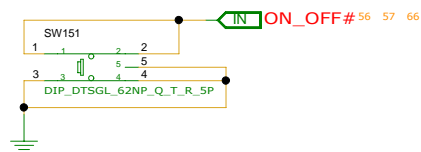
SHEET 54 of 73



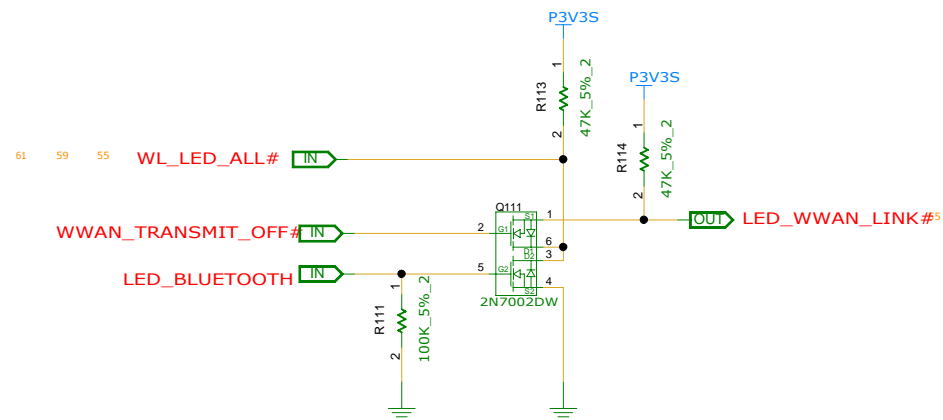








POWER / STANDBY LED



WLAN\_WWAN\_BLUETOOTH\_LED

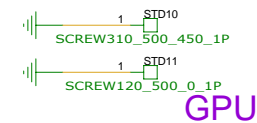
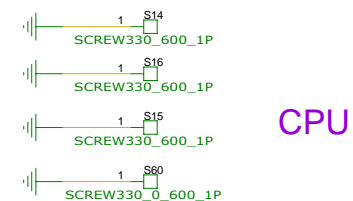
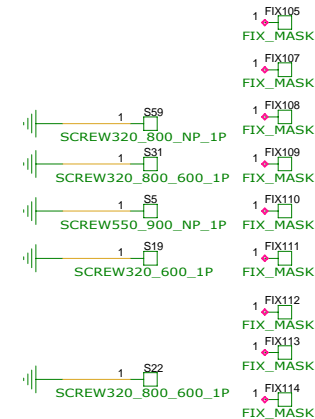
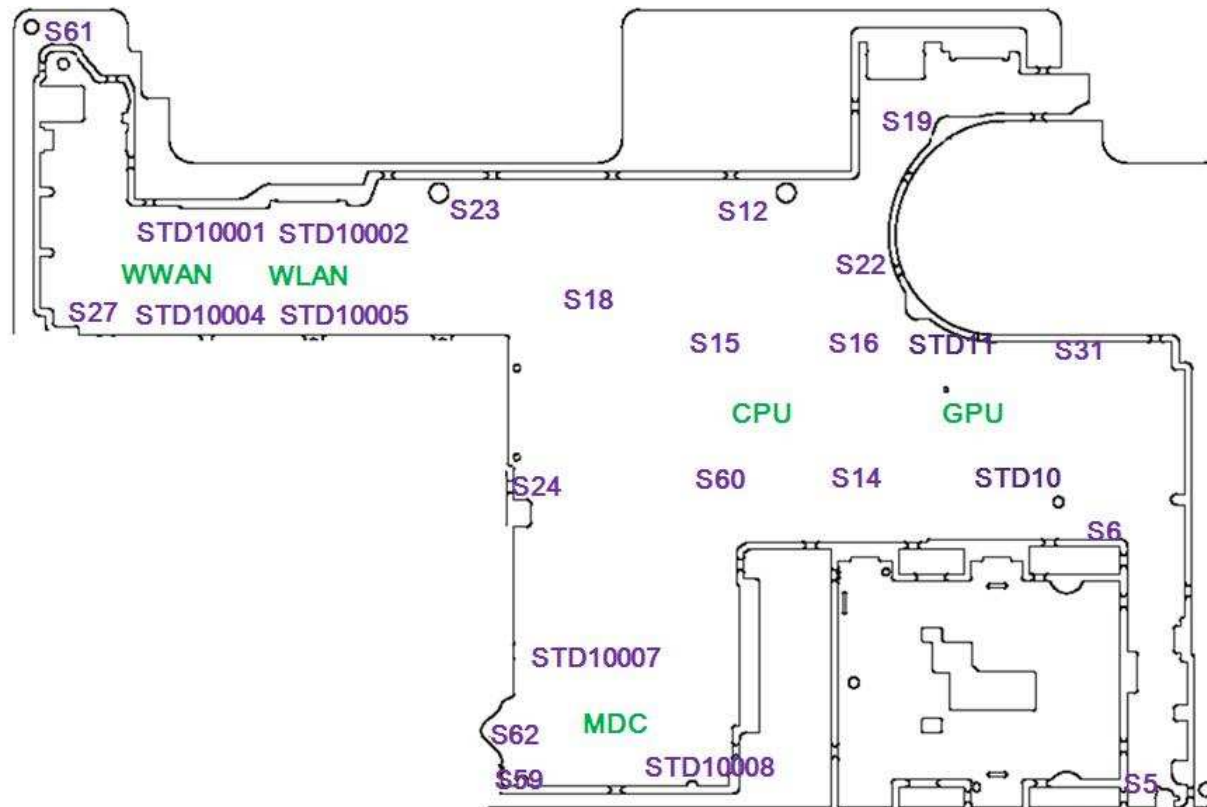
REFERENCE NUMBER:100~199

INVENTEC

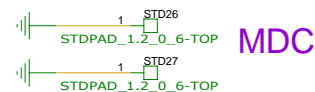
TITLE			
CLAVIN DIS POWER & WLAN_LED			
SIZE	CODE	DOC NUMBER	
A3	CS	1310A24700-0-ALG	
REV		SHEET	
D		57 of 73	

CHANGE by EDI CHEN DATE 23-APR-2012

# SCREW



NOTE :  
S9000 .S9001 .STD9000 ON PAGE 60

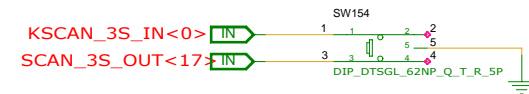
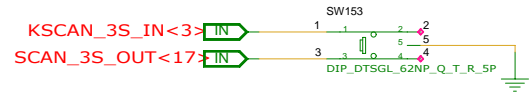


**INVENTEC**

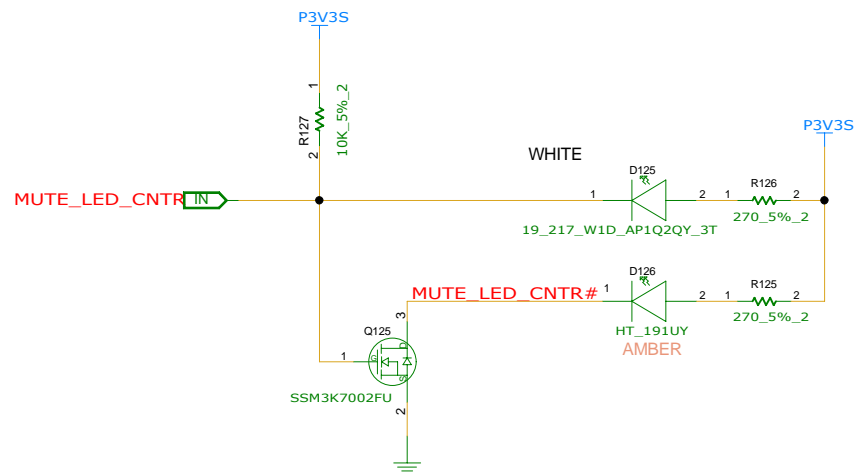
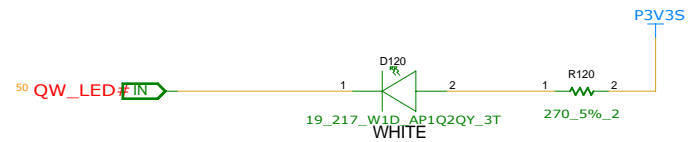
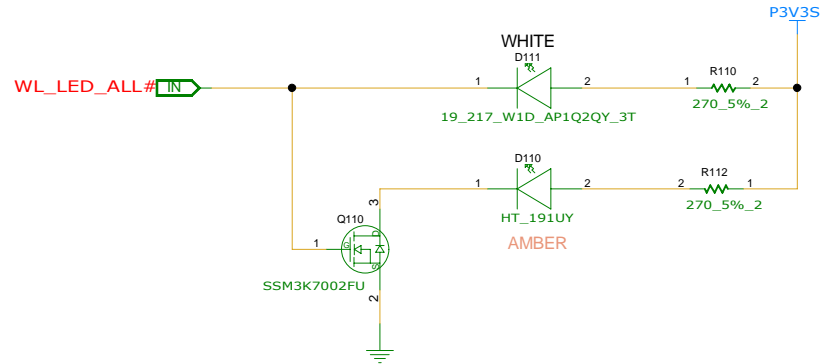
TITLE			
CLAVIN DIS SCREW			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A24700-0-ALG	D

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

SHEET 58 of 73



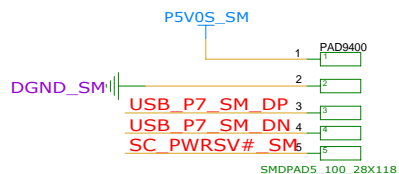
REFERENCE NUMBER:100~199



INVENTEC

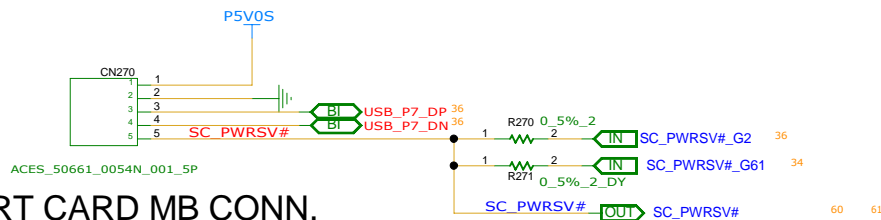
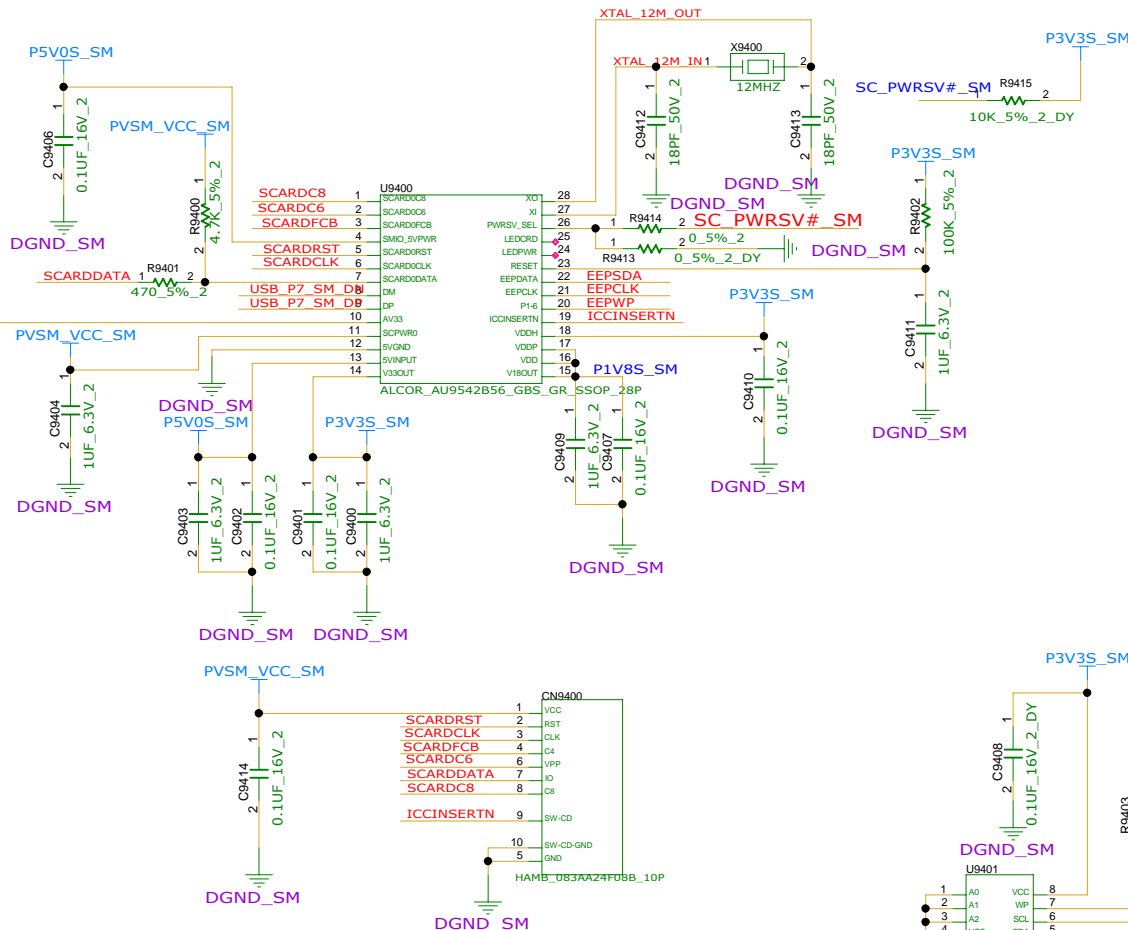
TITLE			
CLAVIN / DIS WIRELESS / QUICK WEB / MUTE LED			
DOC NUMBER		REV D	
1310A24700-0-ALG			
SIZE A3	CODE CS	SHEET 59 of 73	

FIX9401  
FIX\_MASK  
FIX9402  
FIX\_MASK  
FIX9403  
FIX\_MASK  
FIX9404  
FIX\_MASK  
FIX9405  
FIX\_MASK  
FIX9406  
FIX\_MASK  
FIX9407  
FIX\_MASK  
FIX9408  
FIX\_MASK

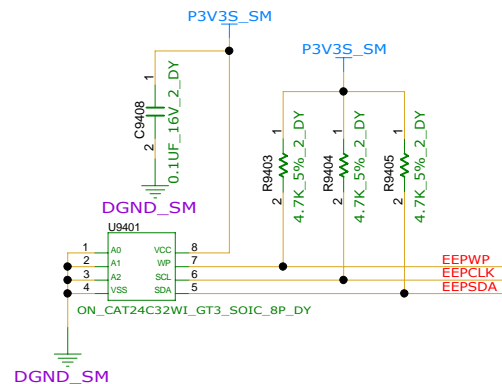


SMART CARD DB

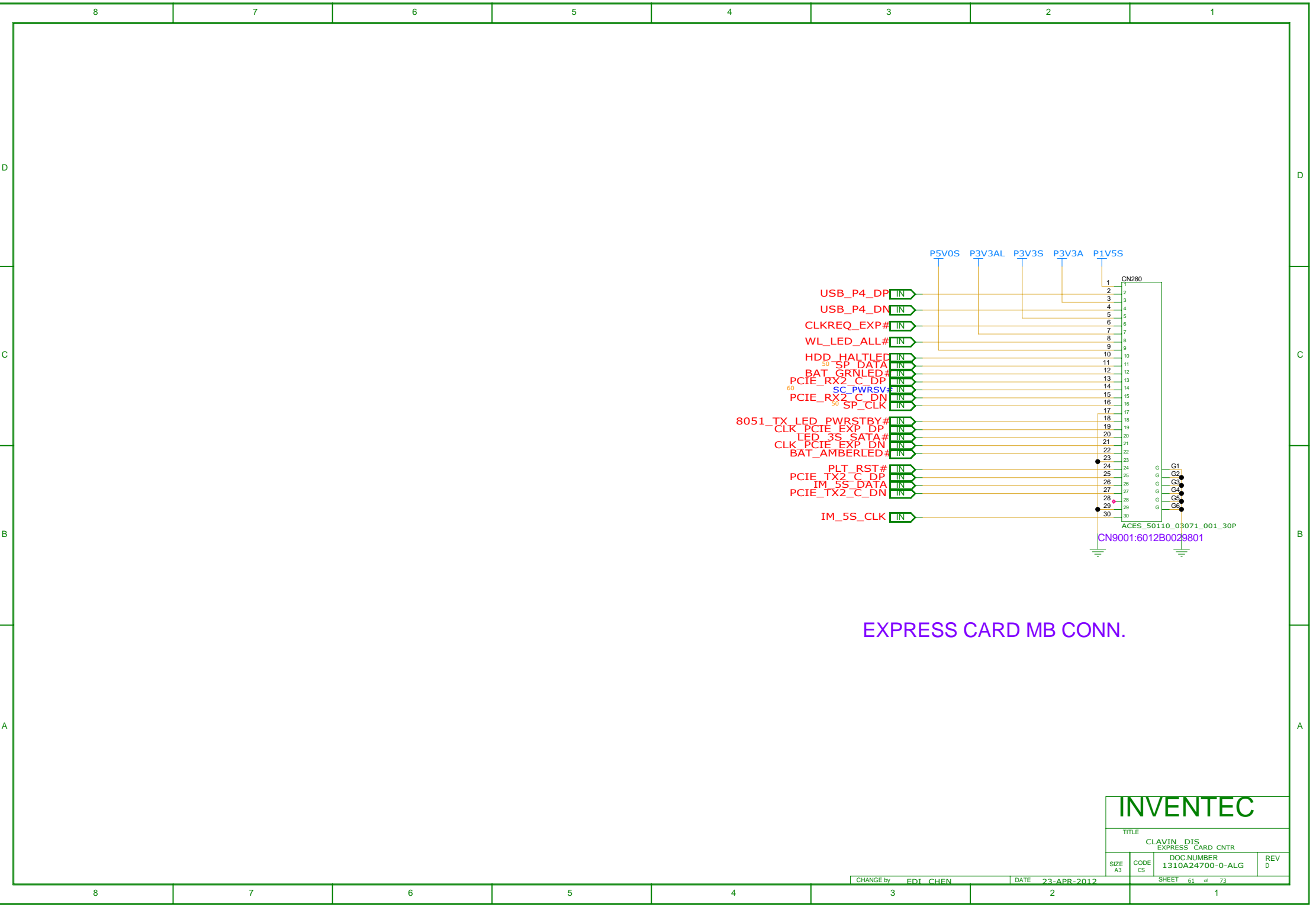
REFERENCE NUMBER:9400~9499



SMART CARD MB CONN.



INVENTEC			
TITLE			
CLAVIN_D1S			
SMART CARD			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A24700-0-ALG	D
SHEET 60 of 73			



INVENTEC

TITLE  
CLAVIN\_DIS  
EXPRESS\_CARD\_CNTR

SIZE A3	CODE CS	DOC NUMBER 1310A24700-0-ALG	REV D
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CHANGE by EDI CHEN

DATE 23-APR-2012

SHEET 61 of 73

BLANK

INVENTEC

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

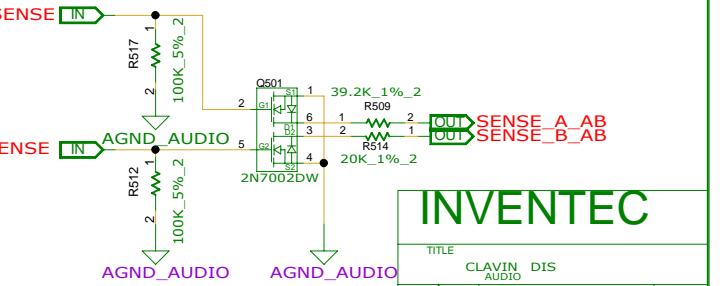
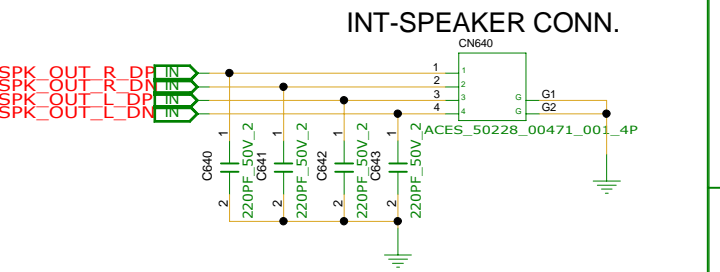
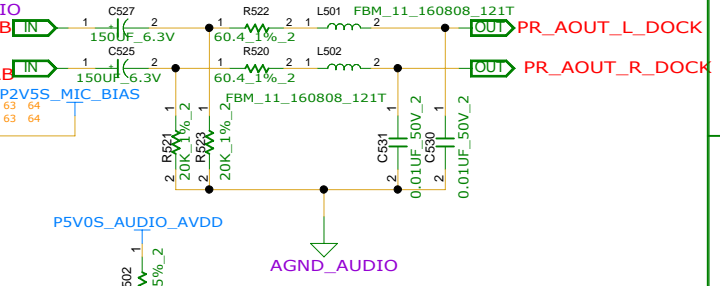
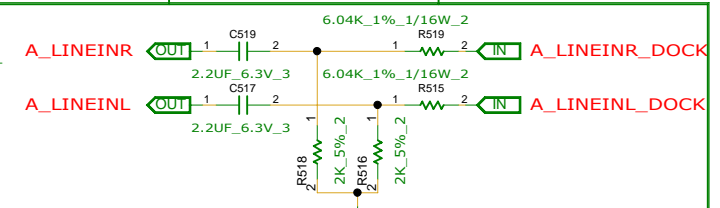
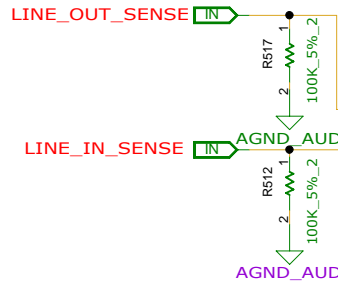
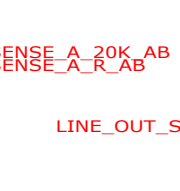
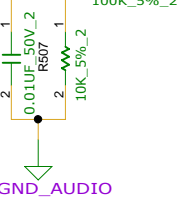
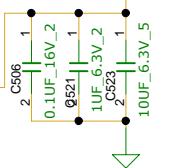
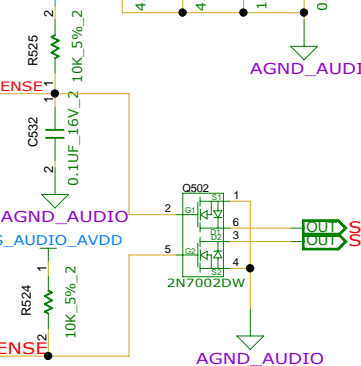
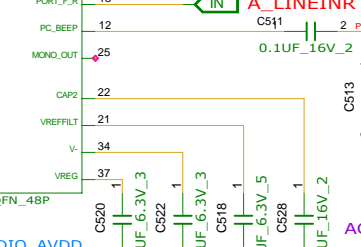
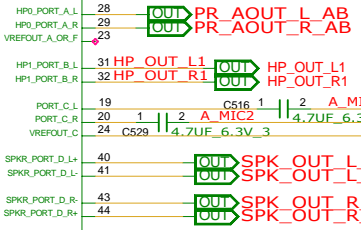
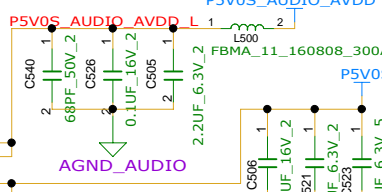
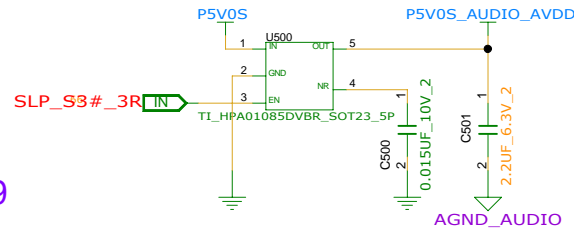
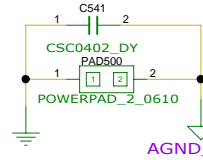
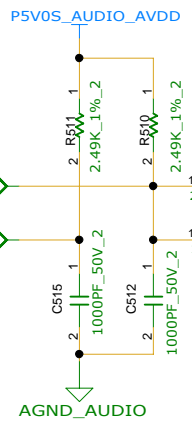
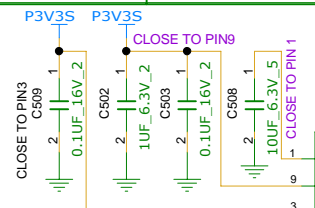
CHANGE by	EDT CHEN	DATE	23-APR-2012	SHEET	62	of	73
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AZ\_R3S\_BITCLK  
AZ\_R3S\_SDINO  
AZ\_R3S\_SDOUT  
AZ\_R3S\_SYNC  
AZ\_R3S\_RST#

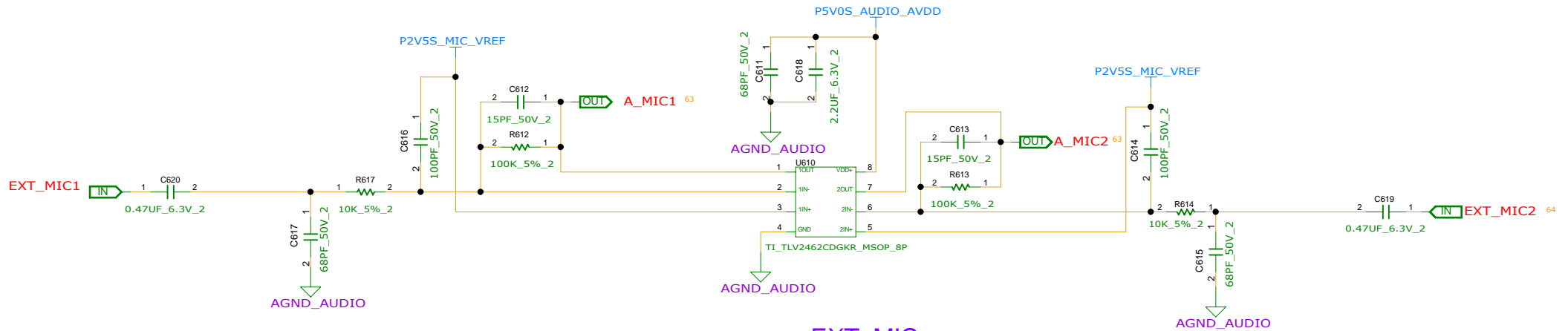
A\_SD#

SENSE\_A\_AB  
SENSE\_B\_AB  
SENSE\_A\_20K\_AB  
SENSE\_A\_R\_AB

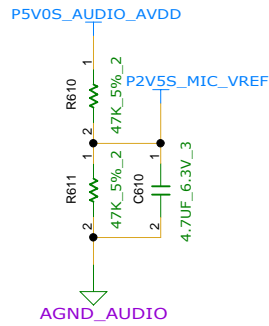
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DOC NUMBER 1310A24700-0-ALG			
SIZE A3	CODE CS	REV D	

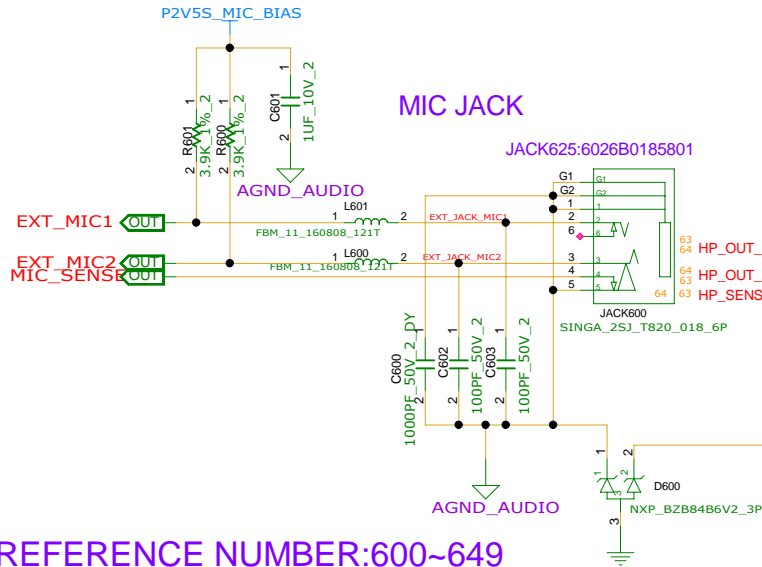


EXT. MIC  
REFERENCE NUMBER:610~624



MIC JACK

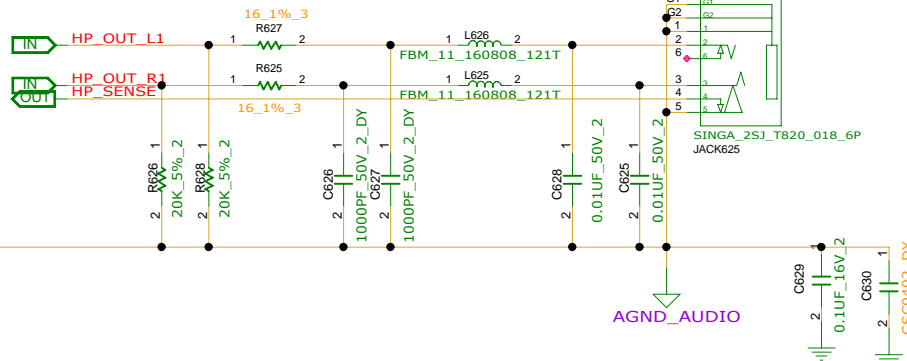
JACK625:6026B0185801



REFERENCE NUMBER:600~649

EARPHONE JACK

JACK625:6026B0185801



INVENTEC

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

CHANGE by EDI\_CHEN DATE 23-APR-2012



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	

CHANGE by EDI CHEN DATE 23-APR-2012

SHEET 65 of 73

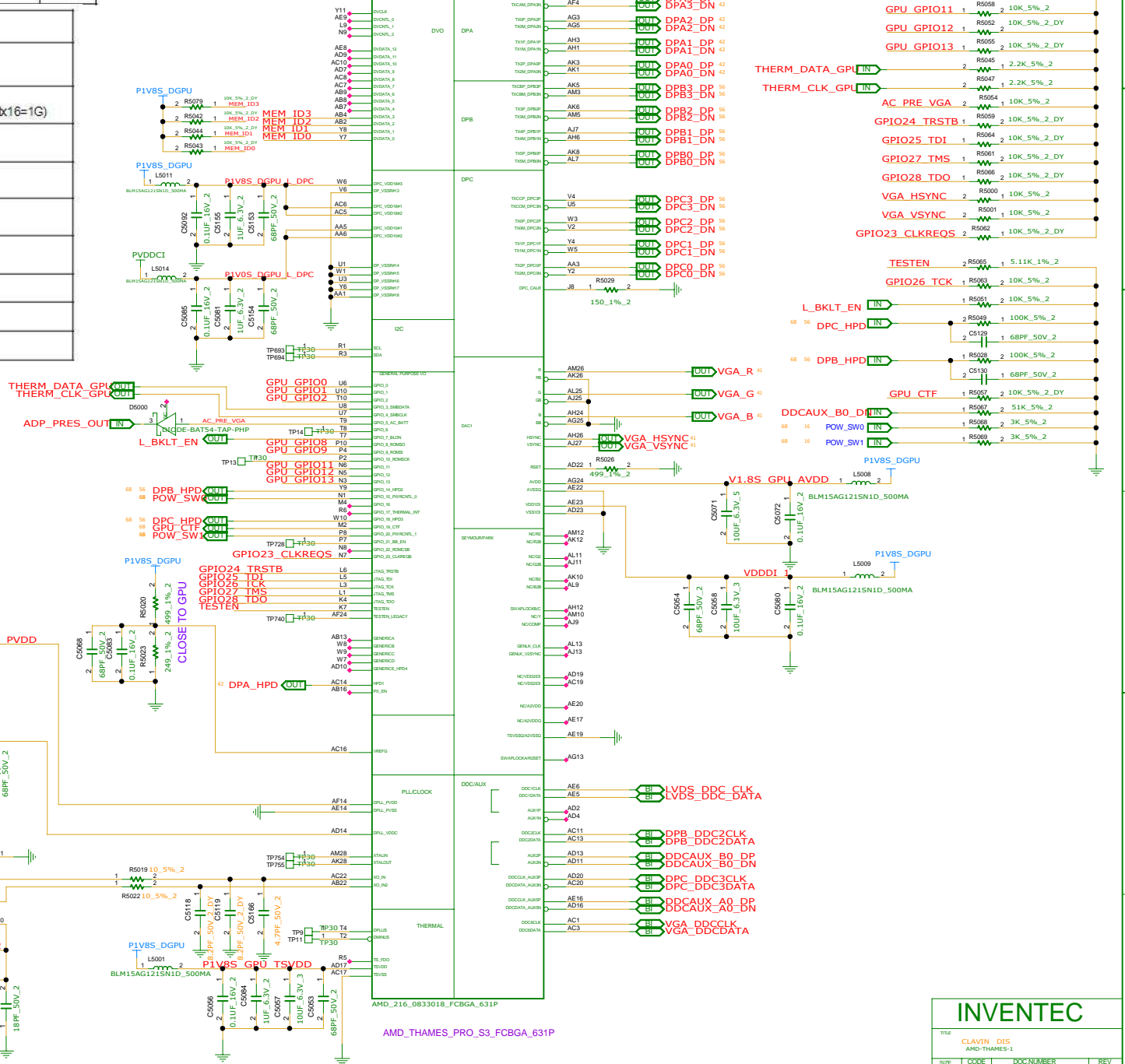




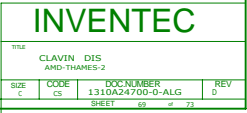
STRAPS	PIN	DESCRIPTION FOR DEFAULT SETTING	
TX_PWRS_ENB	GPIO0	PCIe FULL TX OUTPUT SWING	1
TX_DEEMPH_EN	GPIO1	PCIe transmitter de-emphasis enable	1
BIF_DEBUG_ACCESS	GPIO4	Debug signals muxed out	0
ROMIDCFG	GPIO[11:13,9]	Memory aperture type	XXXX

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

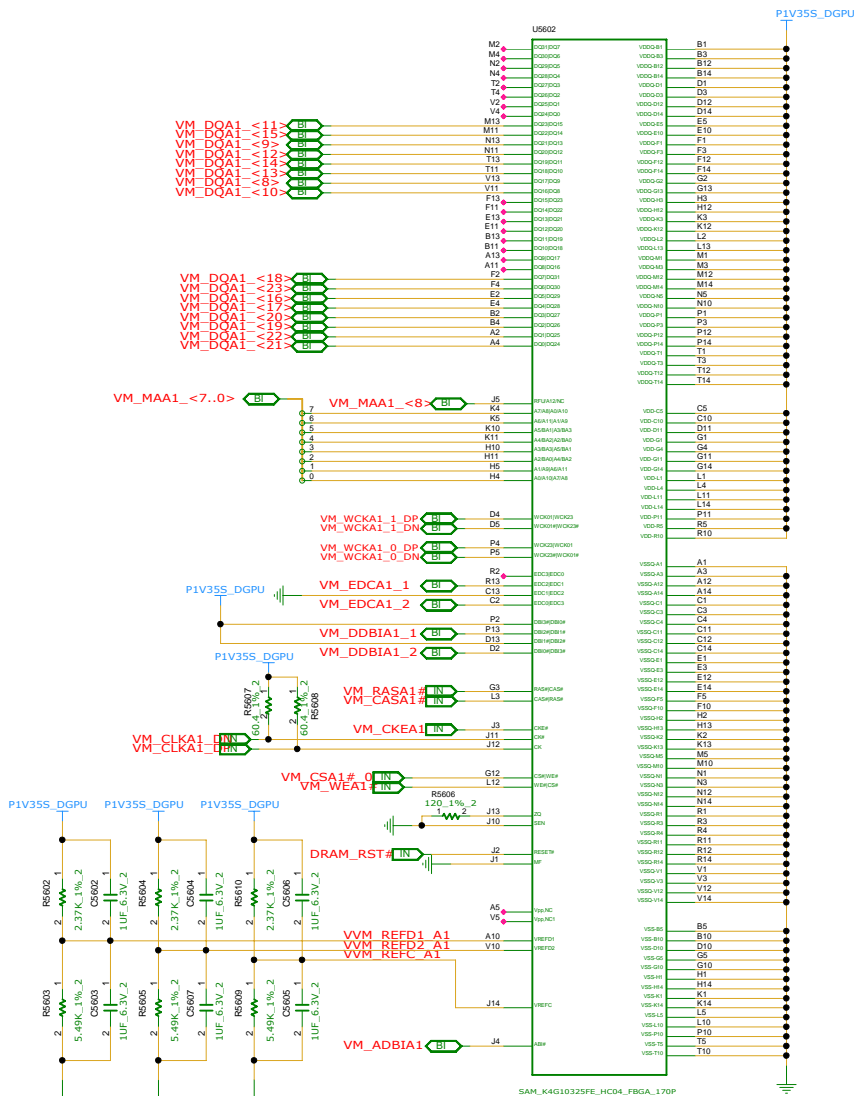




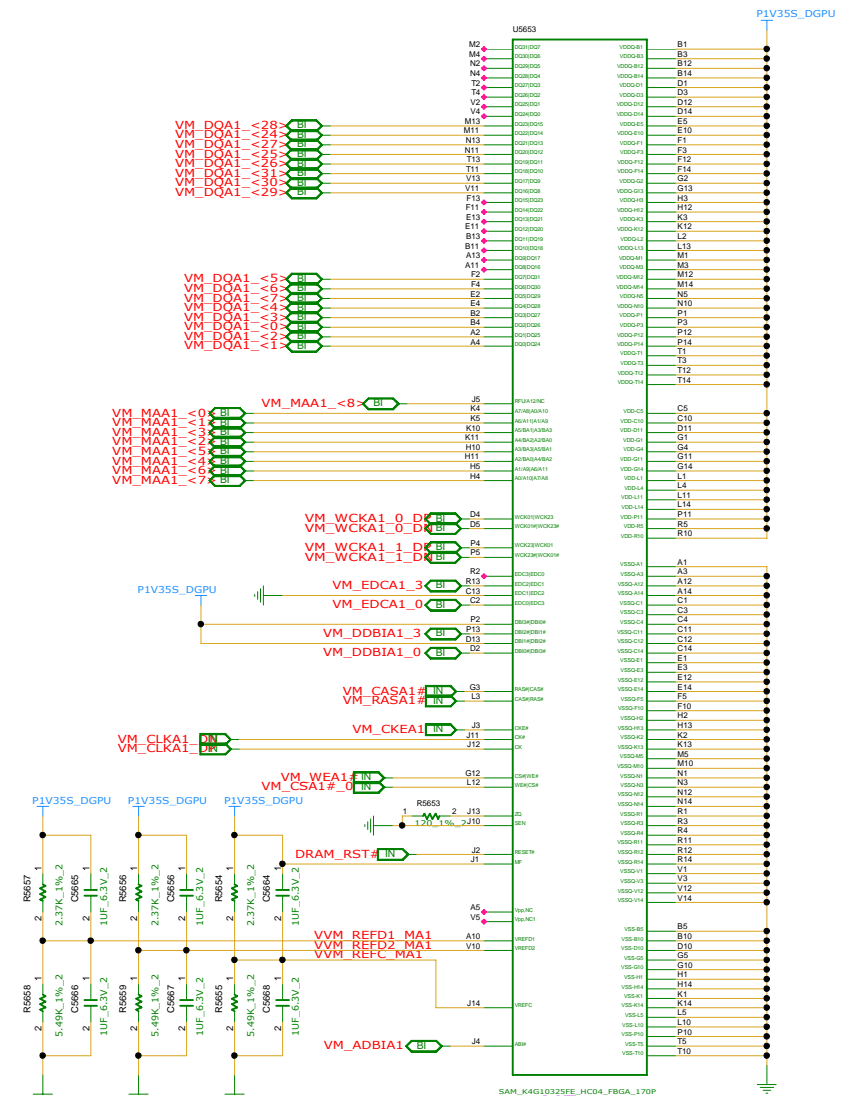








SAM\_K4G10325FE\_HC04\_FBG4\_170P



SAM\_K4G10325FE\_HC04\_FBG4\_170P

MF=1  
MIRROR

INVENTEC				
TITLE CLAVIN DIS VRAN-2				
SIZE C	CODE C	DOC NUMBER 1310A24700-0-ALG	REV D	
SHEET 23		OF 23		