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CALVIN UMA

PV BUILD

2011.11.01

DRAWER		EE	DATE	POWER	DATE				
DESIGN									
CHECK									
RESPONSIBLE									
TITLE						CALVIN-LIMA-PUR PROJECT_NAME			
SIZE		CODE		DOC NUMBER		REV			
FILE NAME		CS		<DOC_NUMBER>		A01			
EN		SHEET		REV		REV			

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TABLE OF CONTENTS

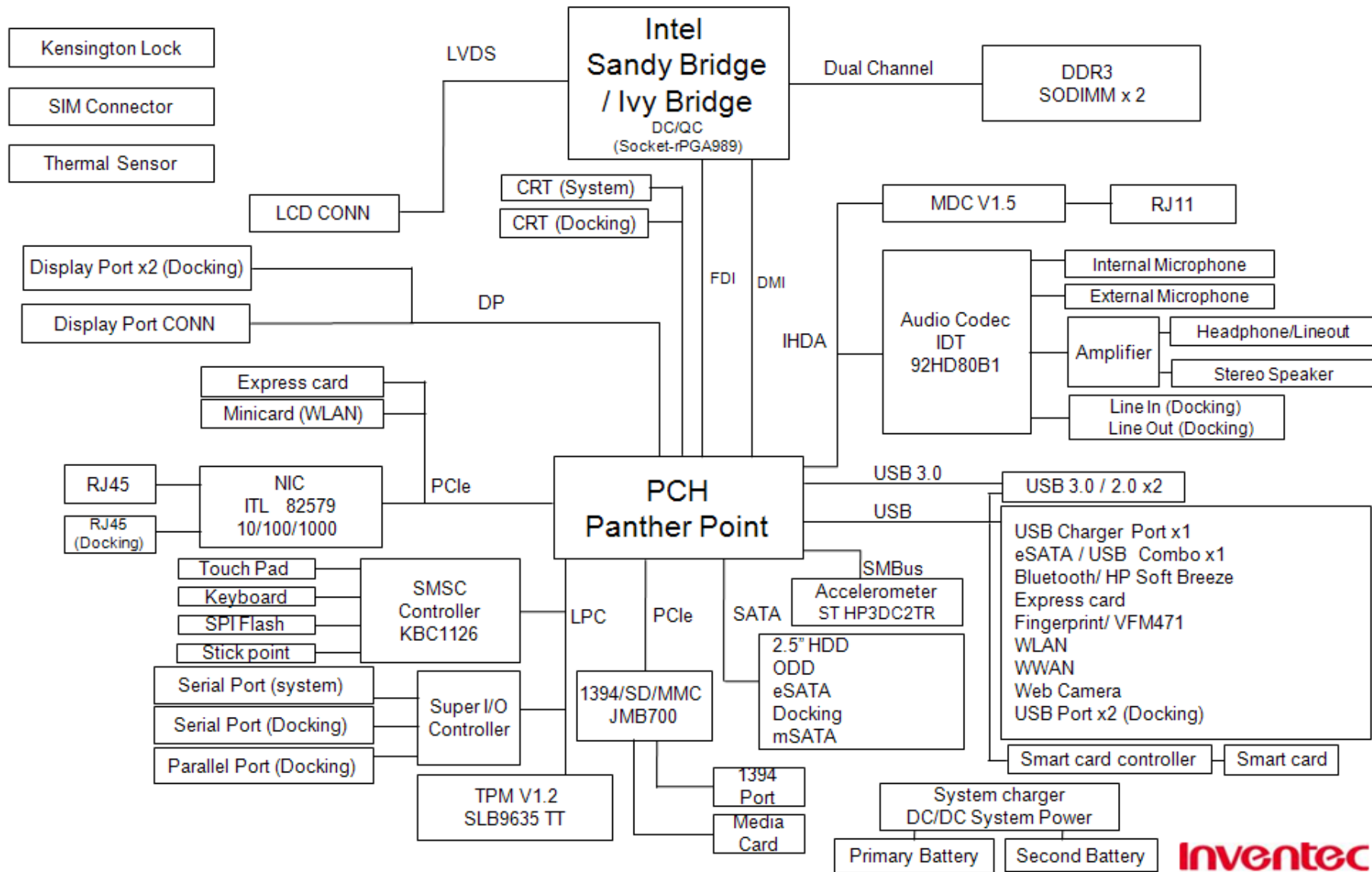
1. PROJECT NAME	23. IVY BRIDGE_1 <CLK, MISC, JTAG>	
2. TABLE OF CONTENTS	24. IVY BRIDGE_2 <POWER>	
3. BLOCK DIAGRAM	25. IVY BRIDGE_3 <DMI, DP, PEG, FDI>	
4. SYSTEM POWER<CHARGER>	26. IVY BRIDGE_4 <DDR3>	47. BLUE TOOTH & FINGER PRINTER CNTR
5. SYSTEM POWER<BATT SELECTOR>	27. IVY BRIDGE_5 <GRAPHICS POWER>	48. ACCELEMOTOR
6. SYSTEM POWER<OCP>	28. IVY BRIDGE_6 <GND, RESERVED>	49. KBC & SPI
7. SYSTEM POWER<P3V3A&P5V0A>	29. DDR3_S0-DIMM0	50. KEYBOARD
8. P3V3A&P5V0A_CHG PORT	30. DDR3_S0-DIMM1	51. SUPER I/O
9. SYSTEM POWER<P1V5>	31. PANTER POINT_1 <HDA, JTAG, SPI, SATA>	52. TPM & MDC
10. SYSTEM POWER<P1V05_LAN_M>	32. PANTER POINT_2 <PCI-E, SMBUS, CLK>	53. LAN <NIC, TRANSFORMER, RJ45>
11. SYSTEM POWER<P1V05S_VCCP>	33. PANTER POINT_3 <DMI, FDI, GPIO>	54. WWAN & WLAN & SIM
12. SYSTEM POWER<P1V8S>	34. PANTER POINT_4 <LVDS, DDI>	55. DOCKING CNTR
13. SYSTEM POWER<PVSA>	35. PANTER POINT_5 <PCI, USB, NVRAM>	56. POWER & WLAN_LED
14. SYSTEM POWER<PVCORE&PVAXG-1>	36. PANTER POINT_6 <GPIO, VSS_NCFT, RSVD>	57. SCREW
15. SYSTEM POWER<PVCORE&PVAXG-2>	37. PANTER POINT_7 <POWER>	58. WIRELESS / QUICK WEB / MUTE LED
16. PVCORE_DGPU <SPARE>	38. PANTER POINT_8 <POWER>	59. SMART CARD
17. P1V35S_DGPU <SPARE>	39. PANTER POINT_9 <GND>	60. EXPRESS CARD CONN
18. HP_OCP	40. VGA SWITCH / CRT	61. EXPRESS CARD/POINT STICH/TOUCH PAD<SPARE>
19. POWER<SLEEP>	41. DISPLAY PORT CNTR	62. AUDIO
20. POWER<SEQUENCE>	42. LCM & WEBCAM	63. EXT. MIC / MIC / HP
21. FAN & THERMAL	43. EDP TO LVDS <SPARE>	64. CARD READER CTRL/1394 CONN/SD CONN
22. XDP CONN	44. SATA HDD & ODD CNTR	65. LID SWITCH
	45. USB & ESATA COMBO / USB CHARGER	66. RF SOLUTION
	46. USB CONN	

INVENTEC

TITLE CALVIN_UMA_PVR TABLE OF CONTENTS			
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SHEET 2 of 65			

CHANGE by: KXX DATE: 05-MAR-2011

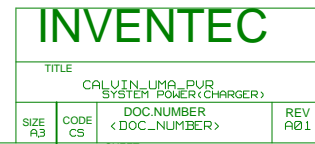
CALVIN UMA Block Diagram



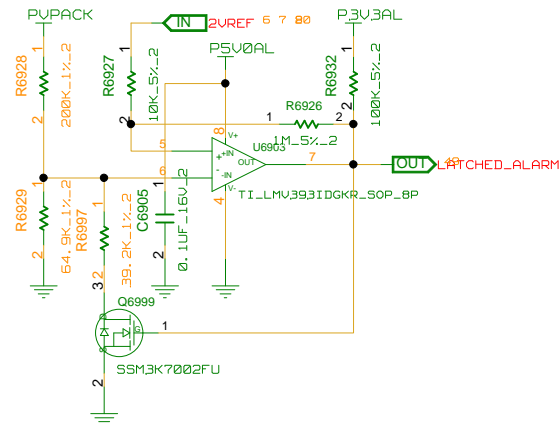
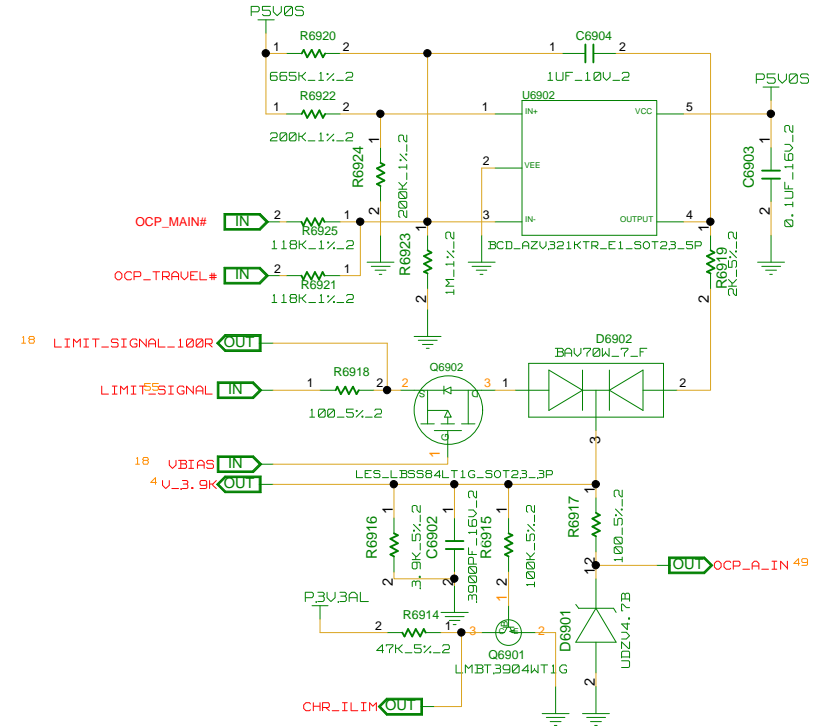
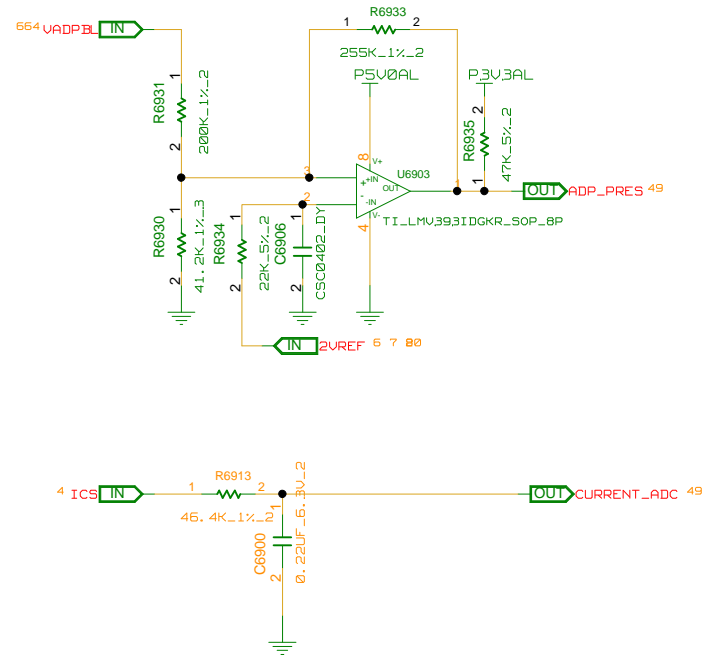
Inventec

INVENTEC

TITLE CALVIN_UMA_PVR BLOCK DIAGRAM			
SIZE A3	CODE CS	DOC NUMBER <DOC_NUMBER>	REV A01







INVENTEC

TITLE
CALUTIN_LUMA_PUP
SYSTEM POWER(OCP)

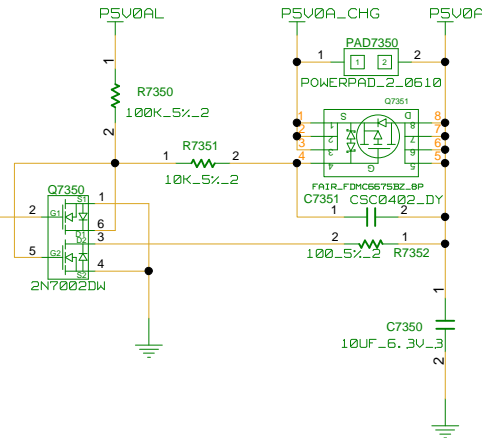
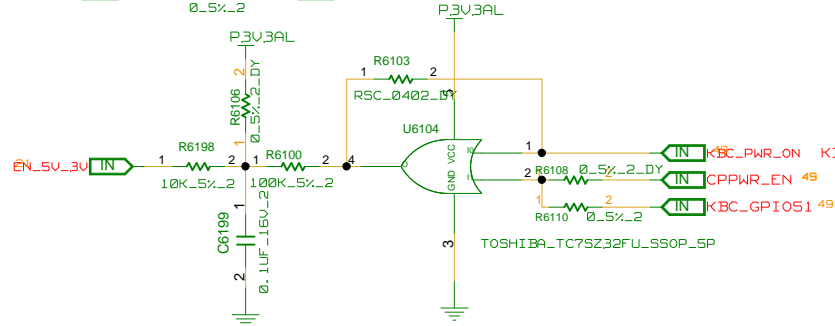
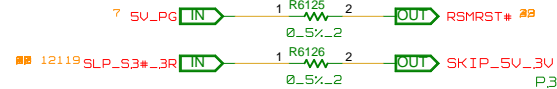
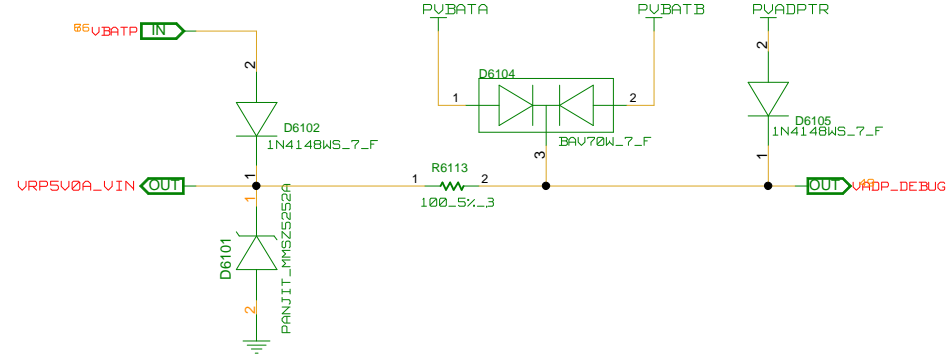
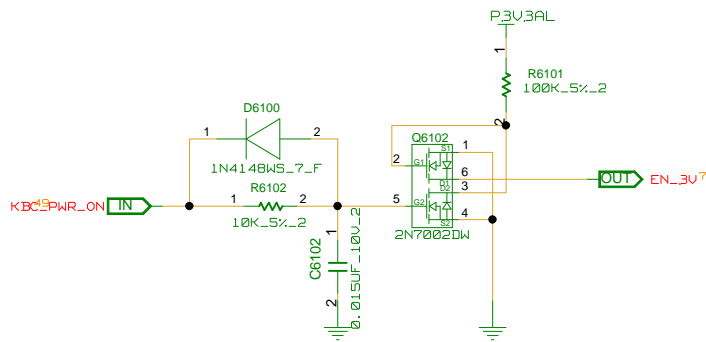
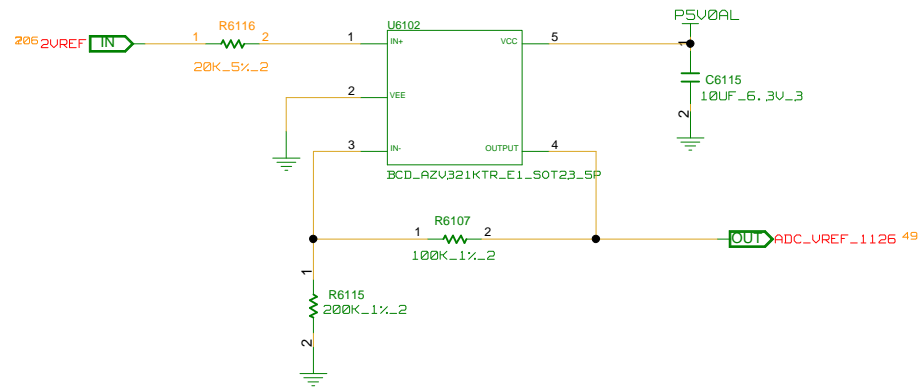
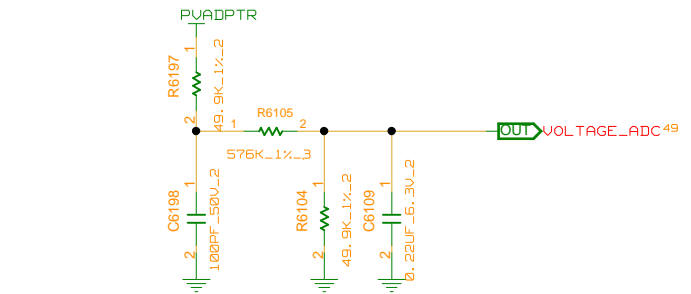
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REV
A01

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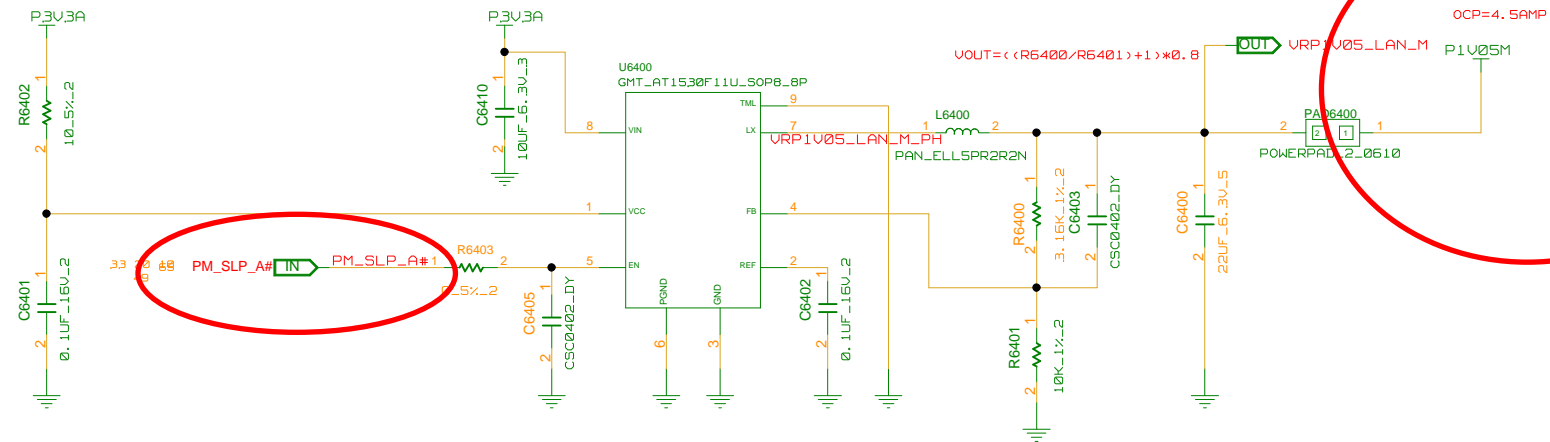


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TITLE			
CALVTN_UMA_PVR_P3V3A&PSV0A_CHG_PORT			
SIZE	CODE	DOC NUMBER	REV
A3	CS	<DOC_NUMBER>	A01
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STATE	S3	S5	VREF	VDDQ	VTTREF	VTT
S0	HI	HI	ON	ON	ON	ON
S3	LO	HI	ON	ON	ON	OFF(High-Z)
S4/S5	LO	LO	OFF	OFF(Discharge)	OFF(Discharge)	OFF(Discharge)

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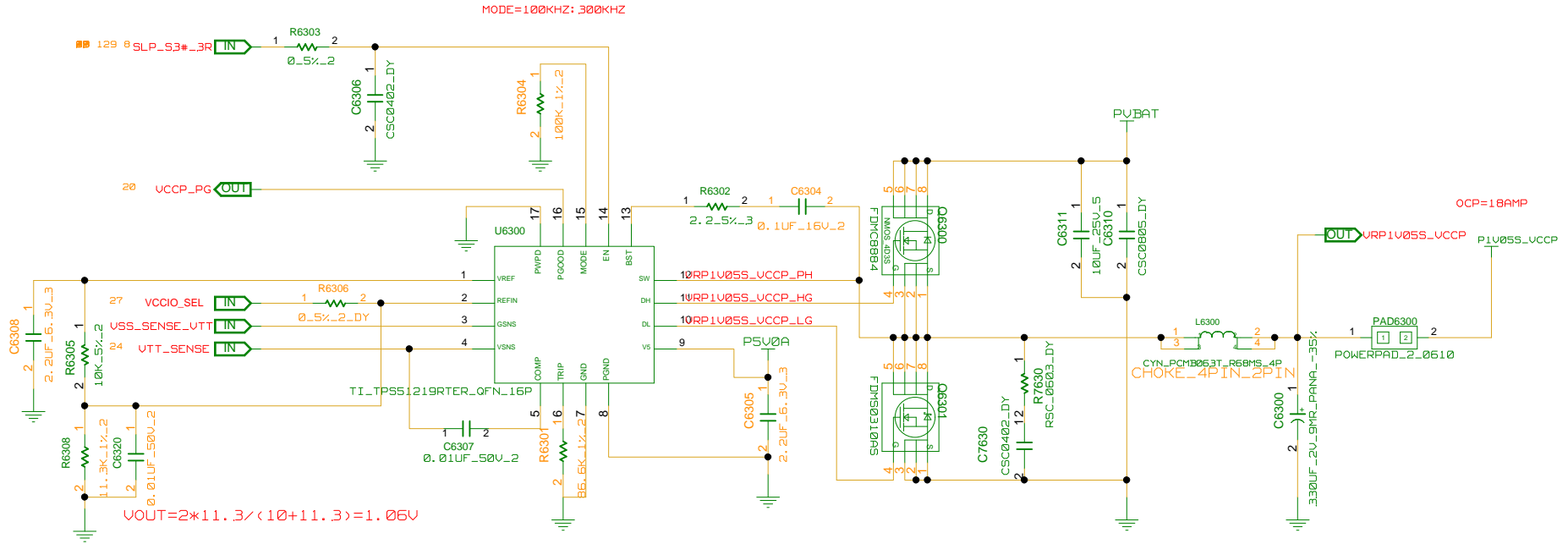


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CODE CS		REV A01	

CHANGE by F.d.1 DATE 01-NOV-2011

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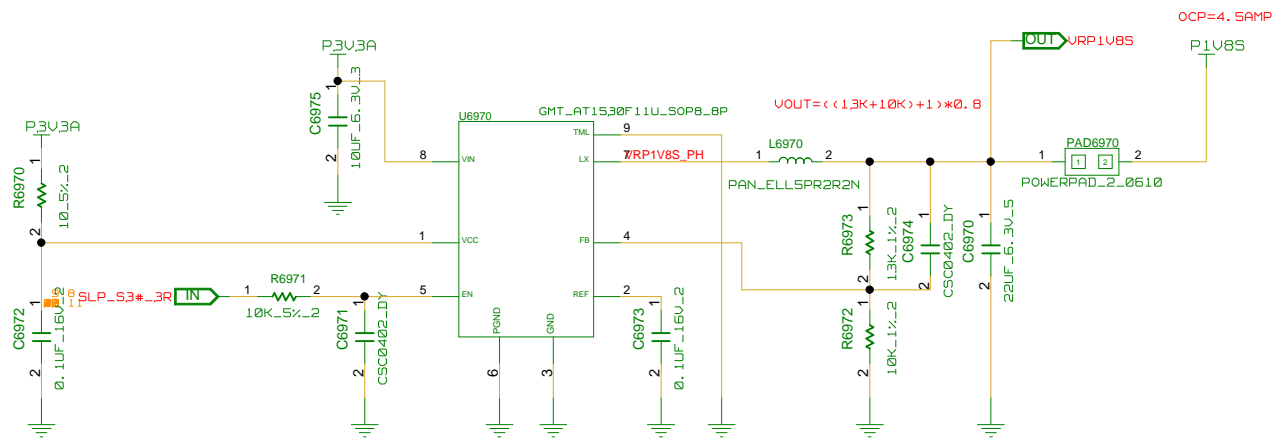
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SIZE A3 CODE CS SHEET 11 of 65

CHANGE by F.d. DATE 01-NOV-2011



INVENTEC

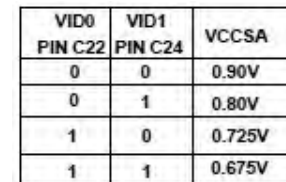
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SYSTEM POWER(P1V8S)

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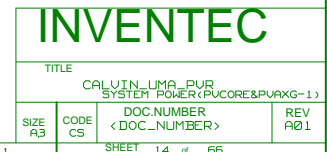
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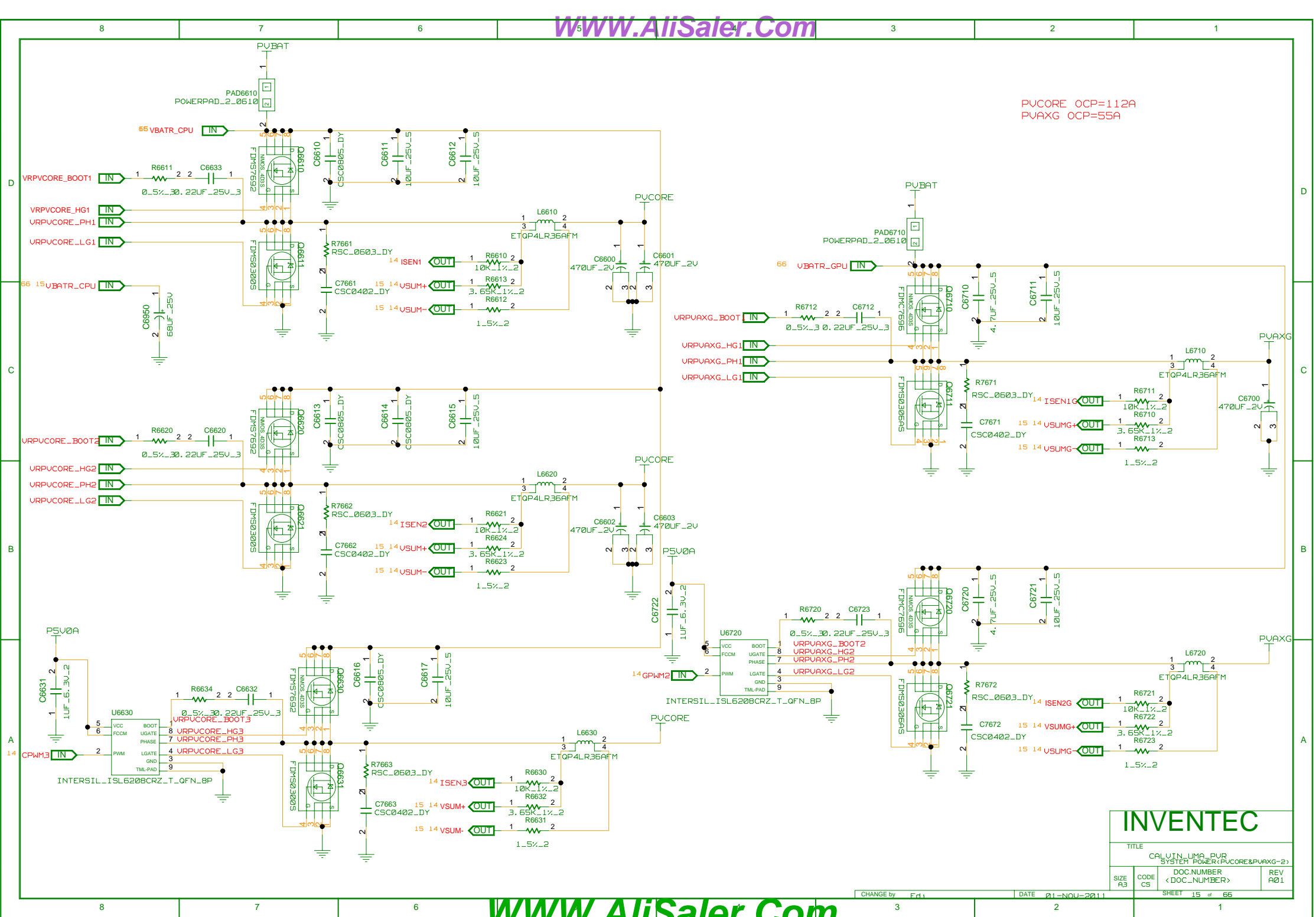
CHANGE by F.d.1 DATE 01-NOV-2011

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PUCORE OCP=112A
PUVAXG OCP=55A

INVENTEC			
TITLE			
CALUTIN_UMA_PUP			
SYSTEM POWER(PUCORE&PUVAXG-2)			
DOC NUMBER			
<DOC_NUMBER>			
REV			
A01			
SIZE	CODE	SHEET 15 of 65	
A3	CS		

EMPTY

INVENTEC

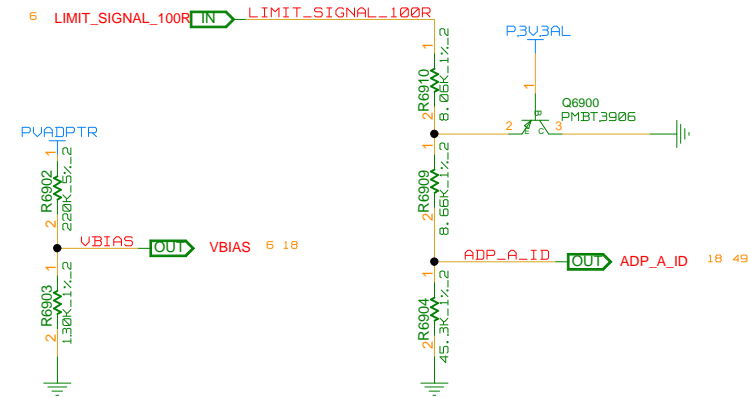
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CALVIN_LUMA_PVB PUCORE_DGPU (SPARE)			
SIZE A3	CODE CS	DOC.NUMBER < DOC_NUMBER >	REV A01
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EMPTY

INVENTEC

TITLE			
CALVIN_LMA_PUB PIV355_DGPU (SPARE)			
SIZE A3	CODE CS	DOC.NUMBER < DOC_NUMBER >	REV A01
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REFERENCE NUMBER : 6900~6999



INVENTEC

TITLE
CALVIN_UMA_PVR
HP_100P

SIZE A3	CODE CS	DOC.NUMBER < DOC_NUMBER >	REV A01
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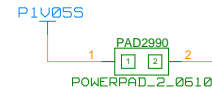
CHANGE by F.d	DATE 01-NOV-2011
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Q2971 WHETHER CAN CHANGE TO
6015B0017101 PMV65XP OR NOT



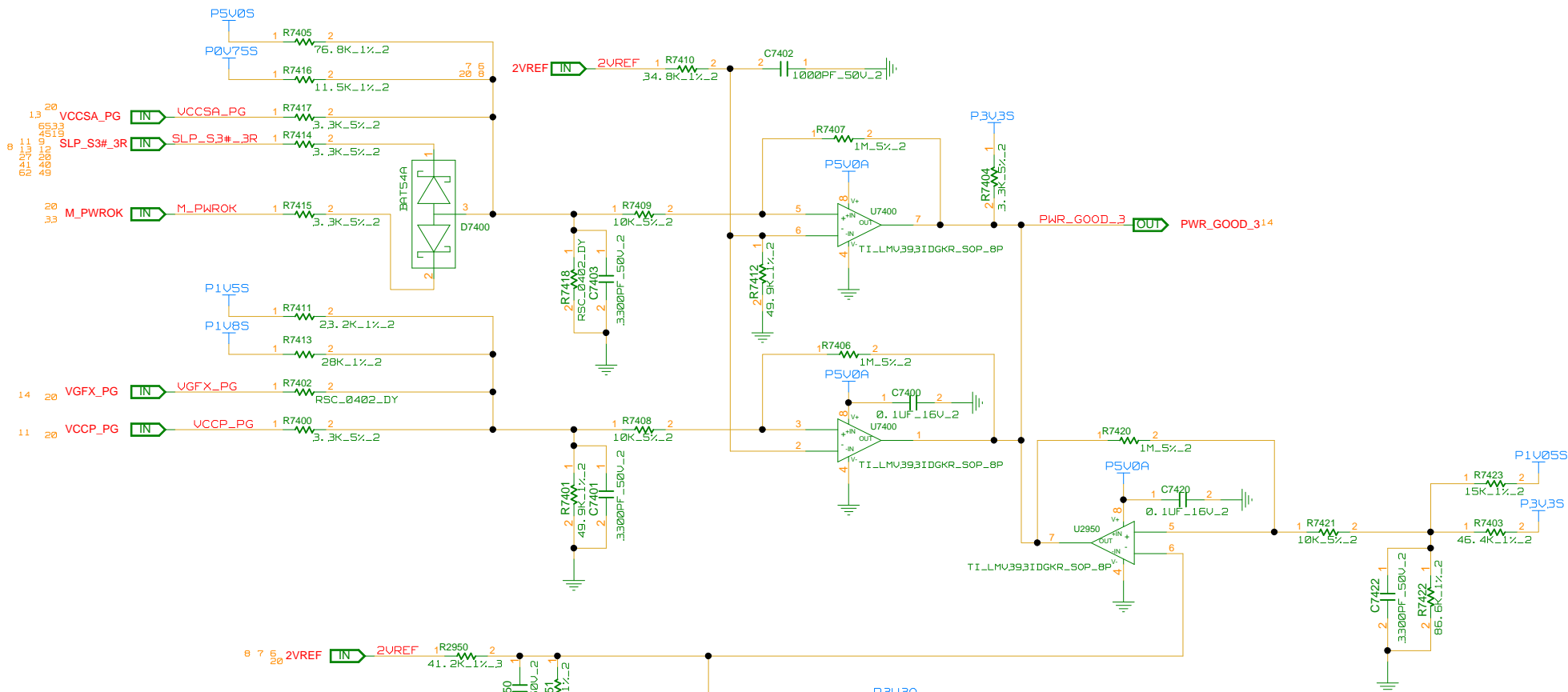
	PAD2990
NON-AMT	INSTALL
I-AMT	UN-INSTALL



INVENTEC

CHANGE by	Ed1	DATE	01-NOV-2011
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REFERENCE NUMER : 7400~7450



FOR IAMT



REFERENCE NUMER : 2950~2999

INVENTEC

TITLE
CALVIN_LMA_PVR
POWER(SEQUENCE)

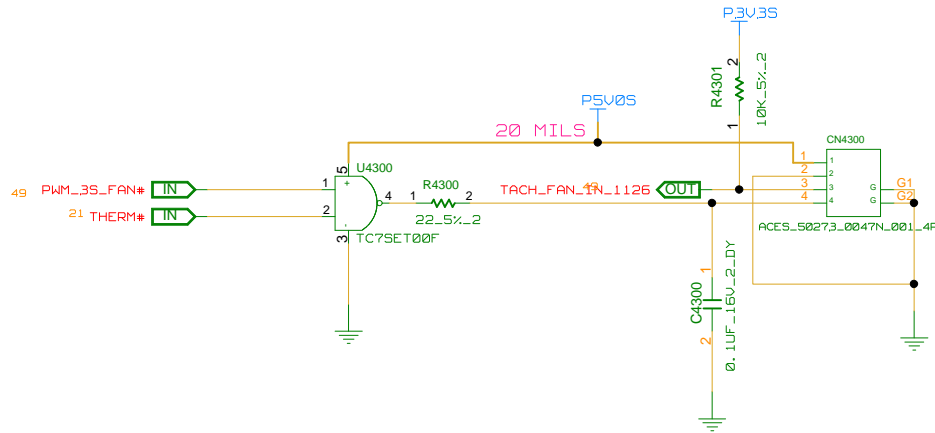
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REV
A01

CHANGE by F.d. DATE 01-NOV-2011

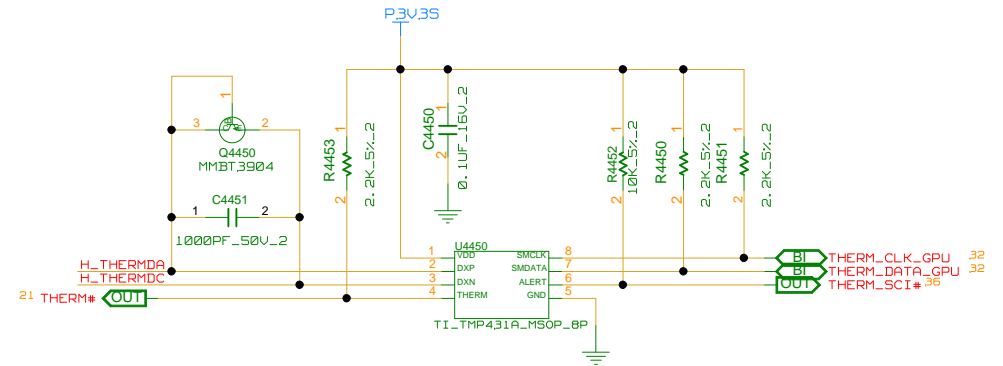
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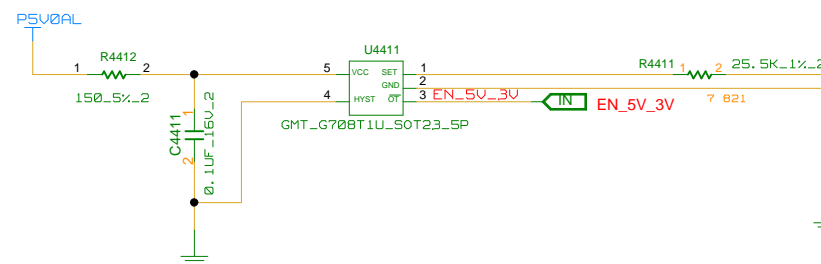


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THERM SENSOR



AMBIENT TEMP SENSE



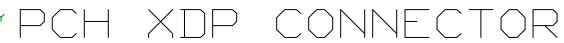
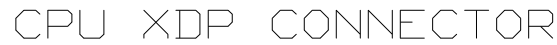
RSET (K OHM) = 0.0012T^2 - 0.9308T + 96.147
THERMAL SHUTDOWN AT 85 DEG.

REFERENCE NUMBER: 4411~4449

INVENTEC

TITLE			
CALVIN_LMA_PVR FAN & THERMAL			
SIZE	CODE	DOC NUMBER	REV
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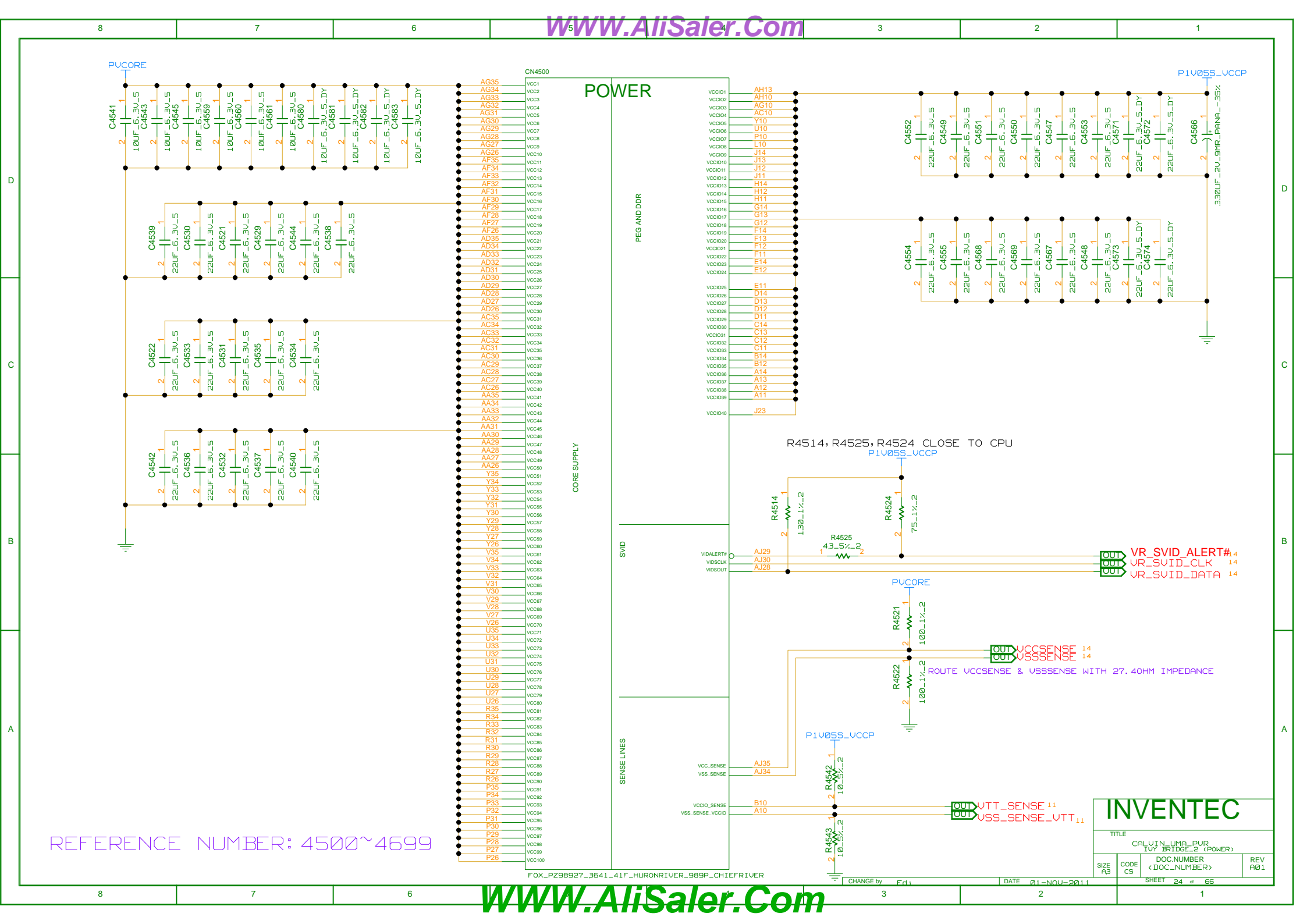


CHANGE by	Ed1	DATE	01-NOV-2011	SHEET	22	of	66
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INVENTEC			
TITLE CALVIN_UMA_PVR IUY_BRIDGE_1 (CLK, MISC, JTAG)			
SIZE A3	CODE CS	DOC.NUMBER <DOC_NUMBER>	REV A01
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REFERENCE NUMBER: 4500~4699



D

C

B

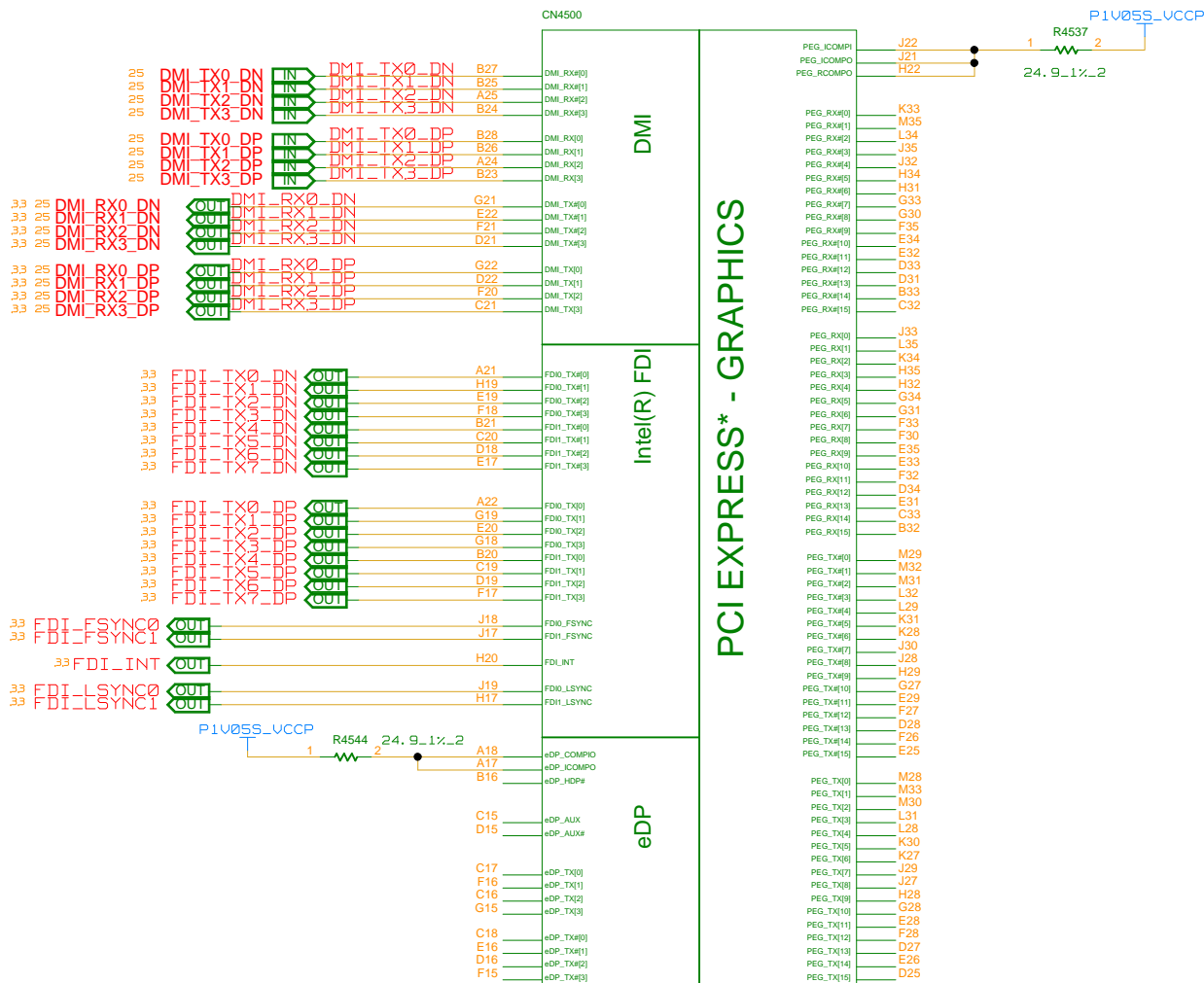
A

D

C

B

A



FOX_PZ98927_3641_41F_HURONRIVER_989P_CHIEFRIVER

REFERENCE NUMBER: 4500~4699

INVENTEC

TITLE
CALUTIN_UMA_EUR
I/O_BRIDGE_3 (DMI, DP, PEG, FDI)

SIZE A3 CODE CS DOC NUMBER <DOC_NUMBER> REV A01

CHANGE by F.d. DATE 01-NOV-2011 SHEET 25 of 65

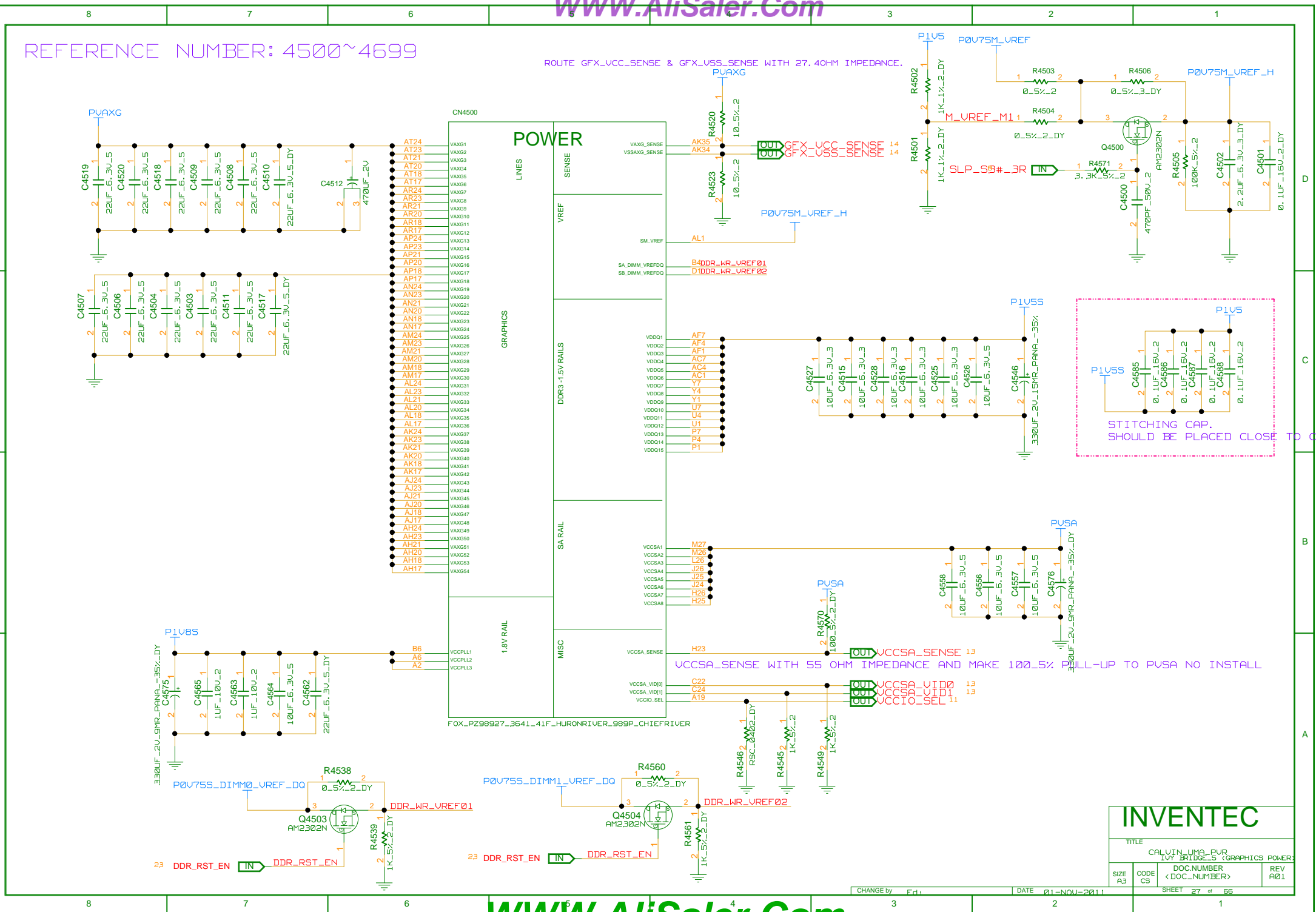


FOX_PZ98927_3641_41F_HURONRIVER_989P_CHIEFRIVER

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INVENTEC			
TITLE CALVIN_UMA_PVR IUY_BRIDGE_4 (DDR3)			
SIZE A3	CODE CS	DOC NUMBER <DOC_NUMBER>	REV A01
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D

C

B

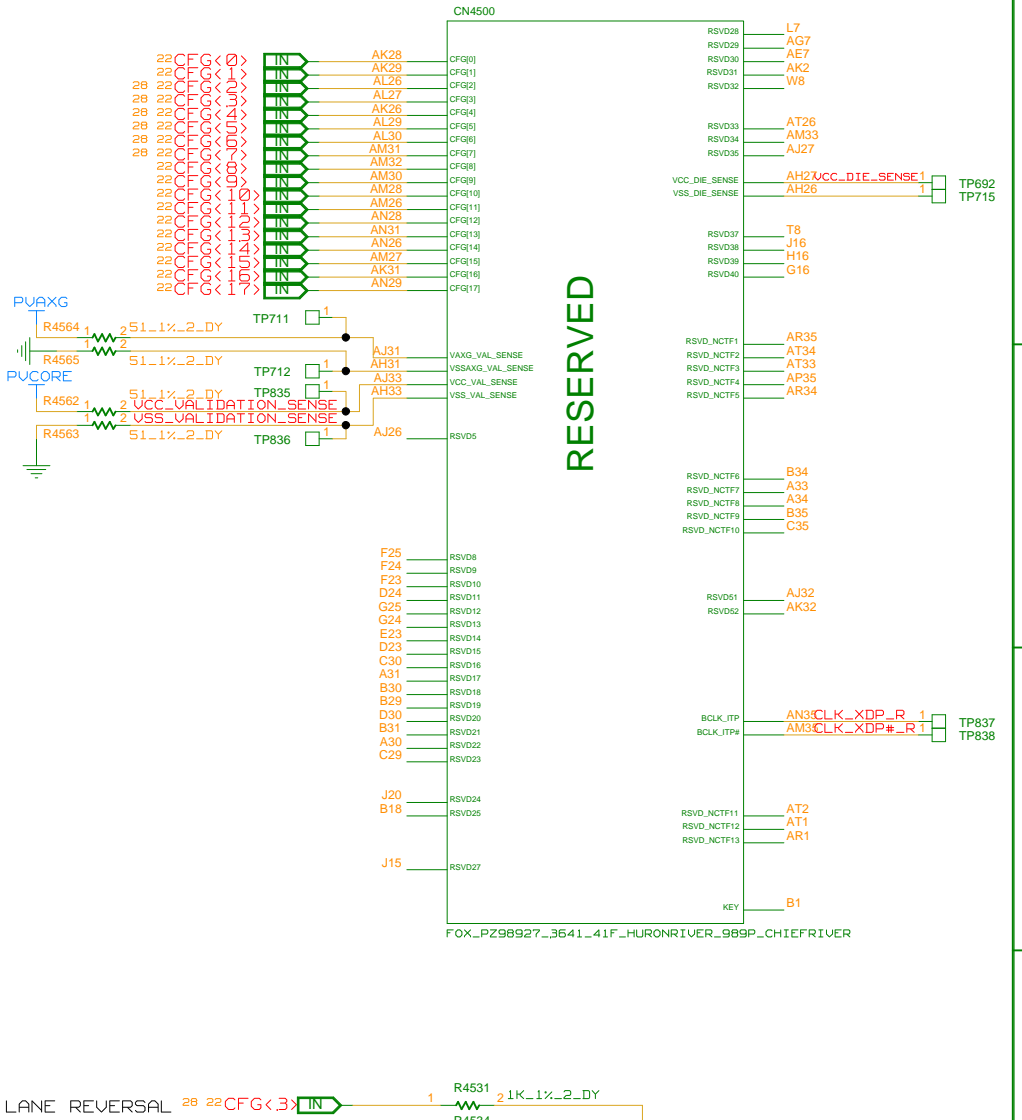
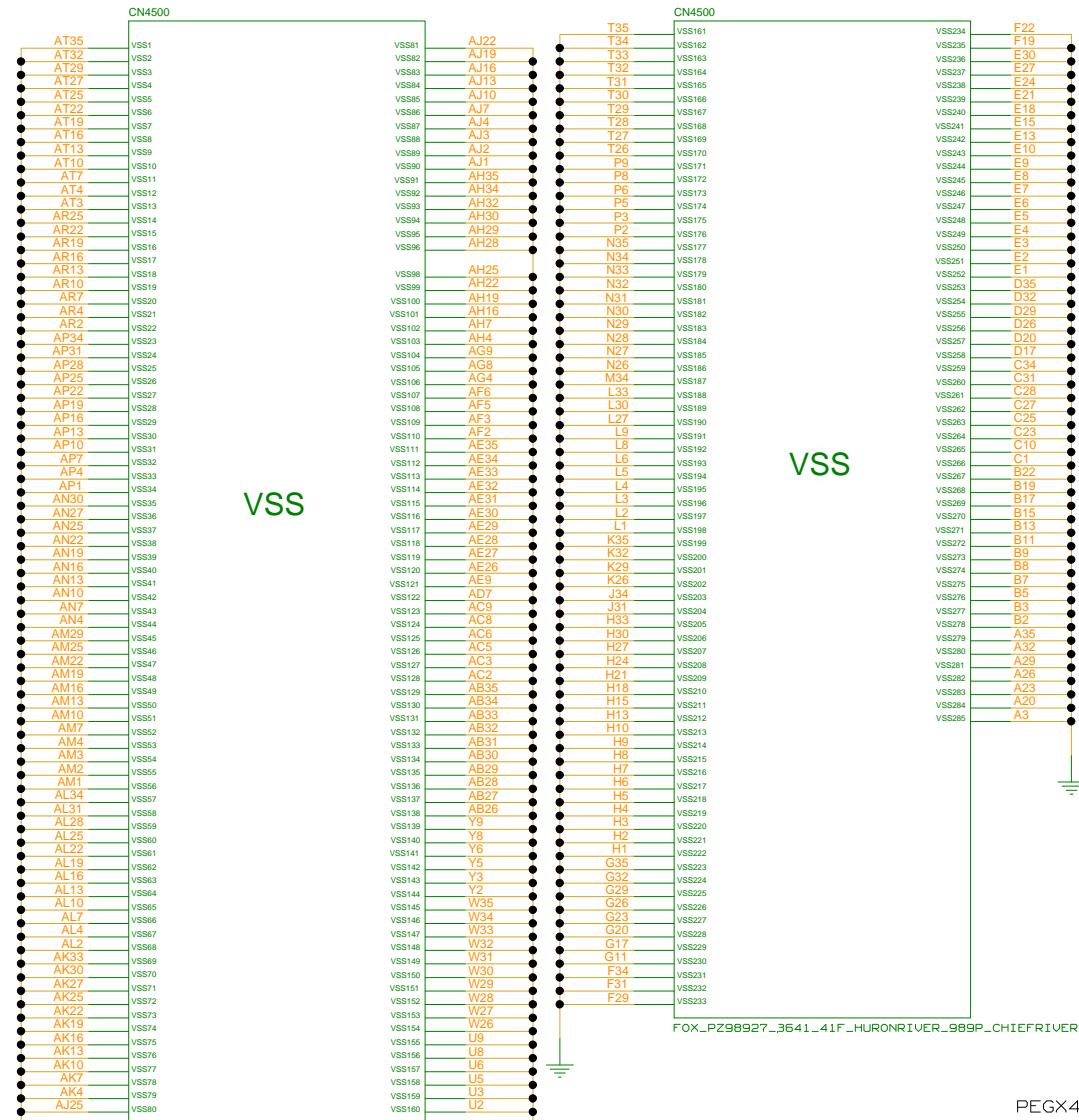
A

D

C

B

A



INVENTEC			
TITLE			
CALUTN_UMA_PUP			
I/O BRIDGE_5 (GND, RESERVED)			
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A3	CS	< DOC_NUMBER >	A01
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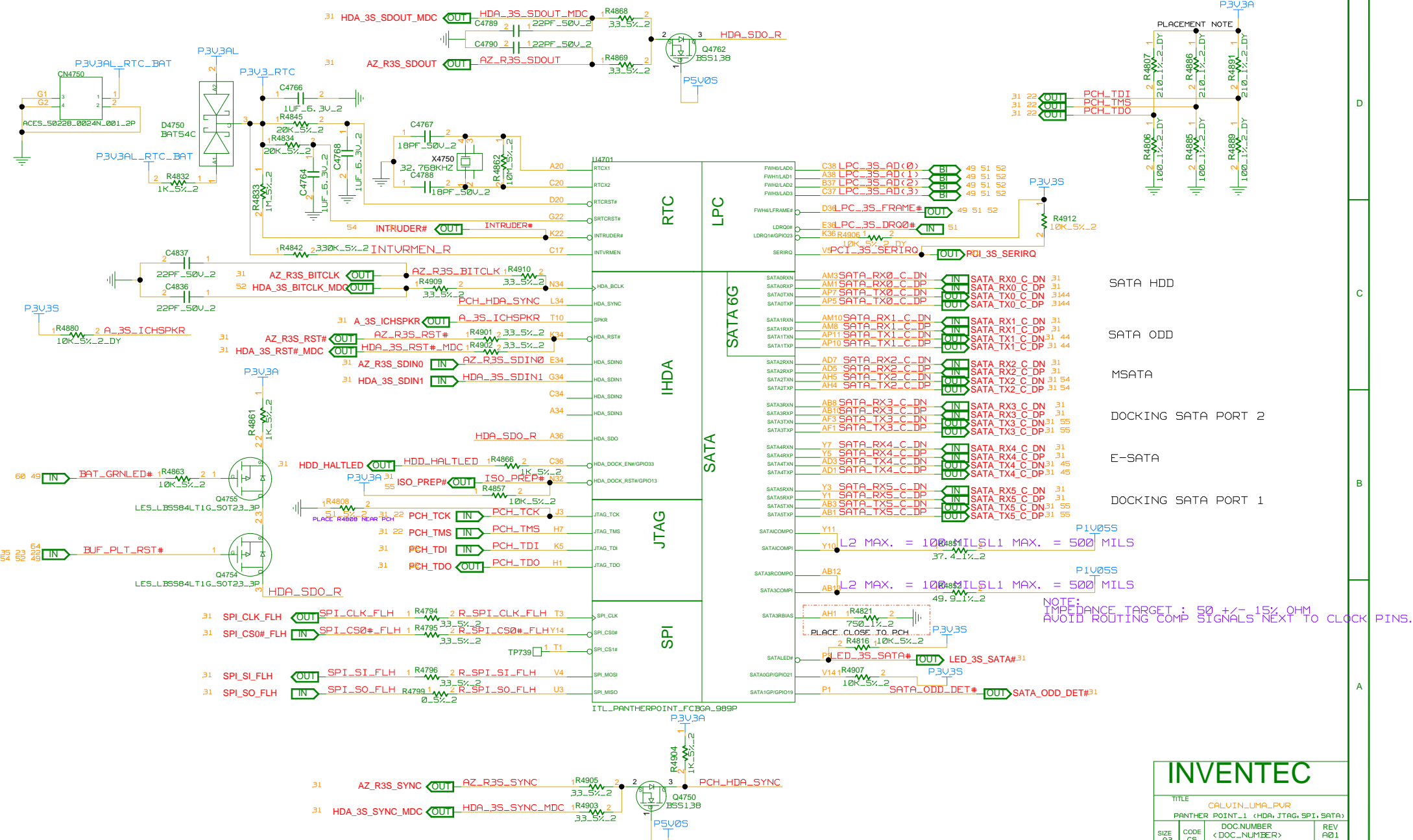
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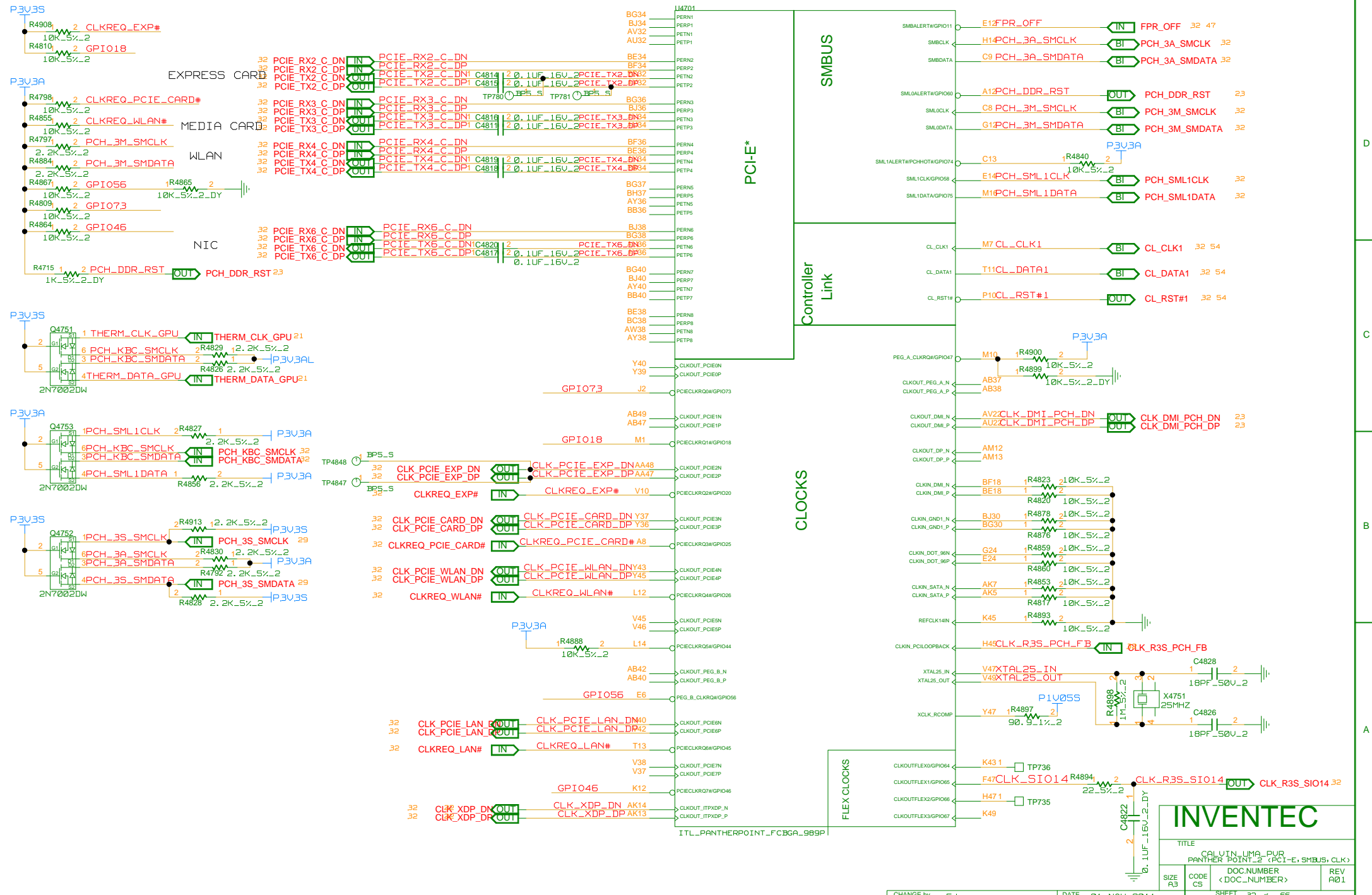


REFERENCE NUMER : 4700~4949



INVENTEC			
TITLE CALVIN_LUMA_PVR			
PANTHER POINT_1 <HDA, JTAG, SPI, SATA>			
SIZE A3	CODE CS	DOC.NUMBER <DOC_NUMBER>	REV A01
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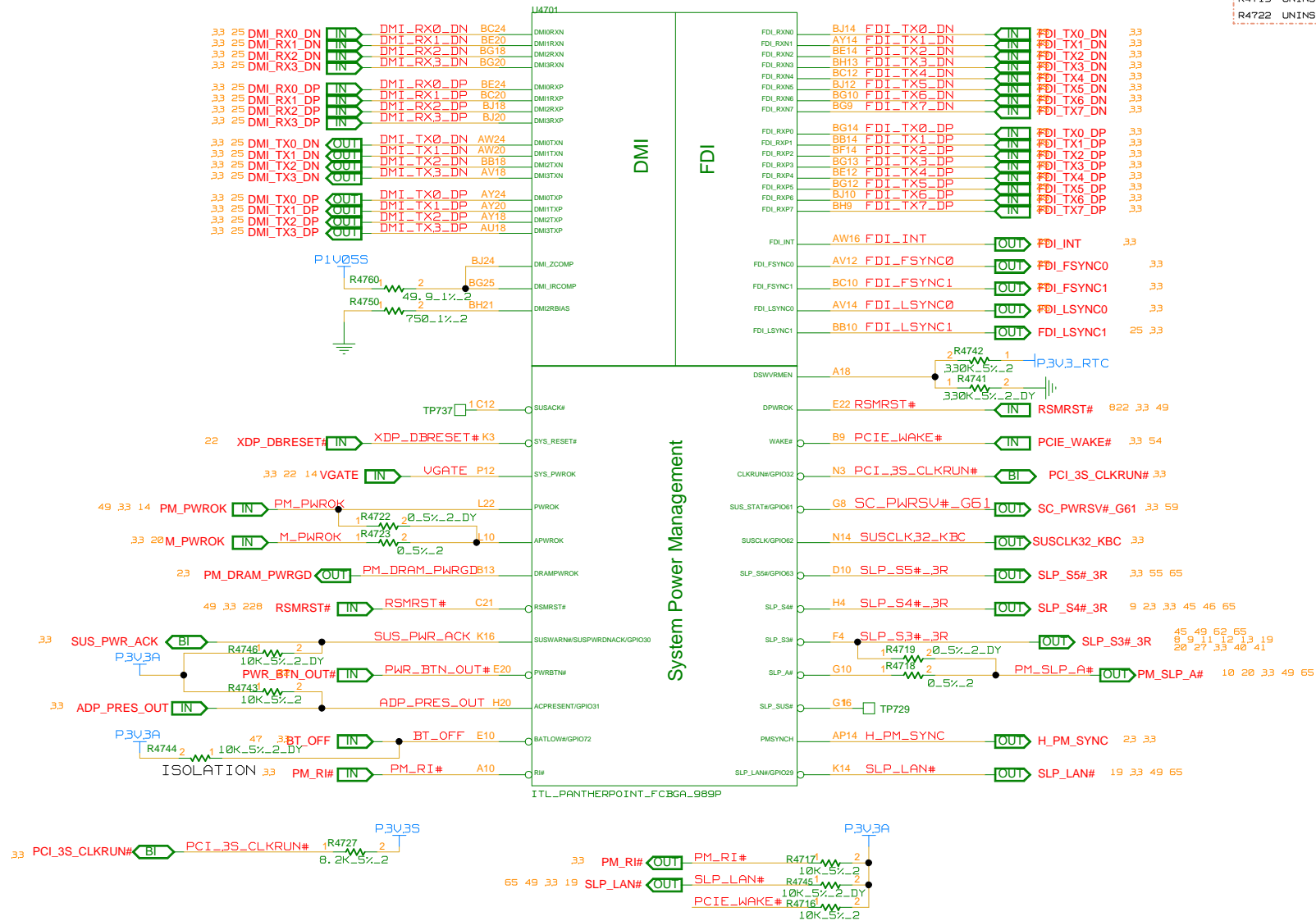


REFERENCE NUMER : 4700~4949

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 P3V3S ENABLES DSW WUPPORT. NO INSTALL R4752 TO DISABLE DSW

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



INVENTEC

TITLE			
CALVIN_UMA_PVR PANTHER POINT_3 (DMI, FDI, GPIO)			
SIZE	CODE	DOC NUMBER	REV
A3	CS	<DOC_NUMBER>	A01
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TITLE			
CALVIN LUMA_PUR PANTHER POINT_4 <LVDS, DDI>			
SIZE A3	CODE CS	DOC.NUMBER <DOC_NUMBER>	REV A01
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A

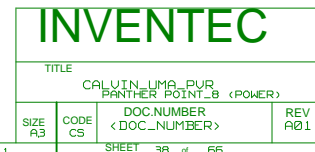


CHANGE by	Ed1	DATE	01-NOV-2011
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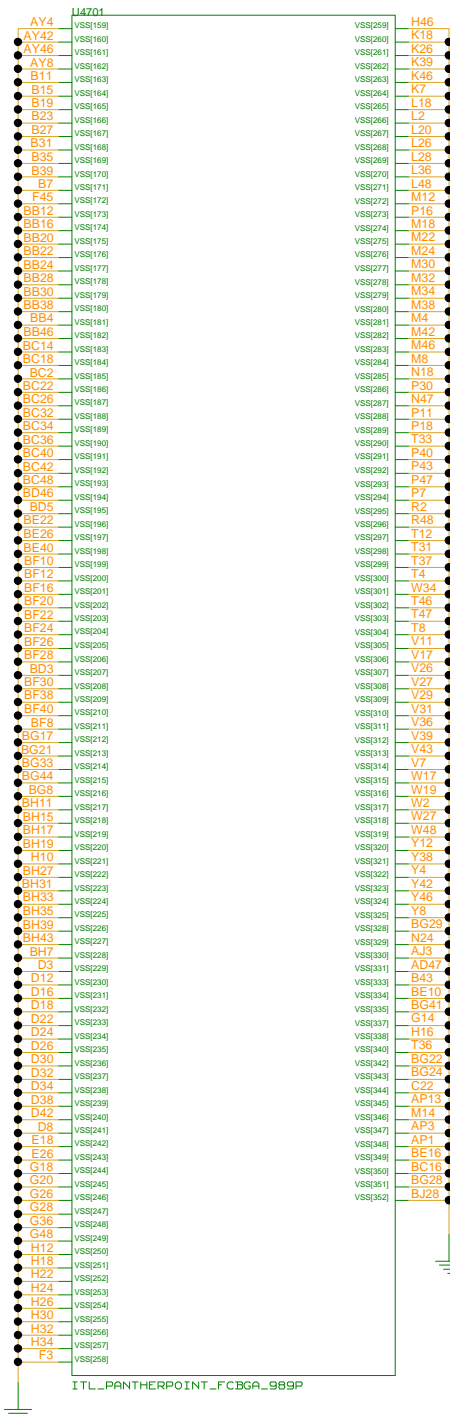
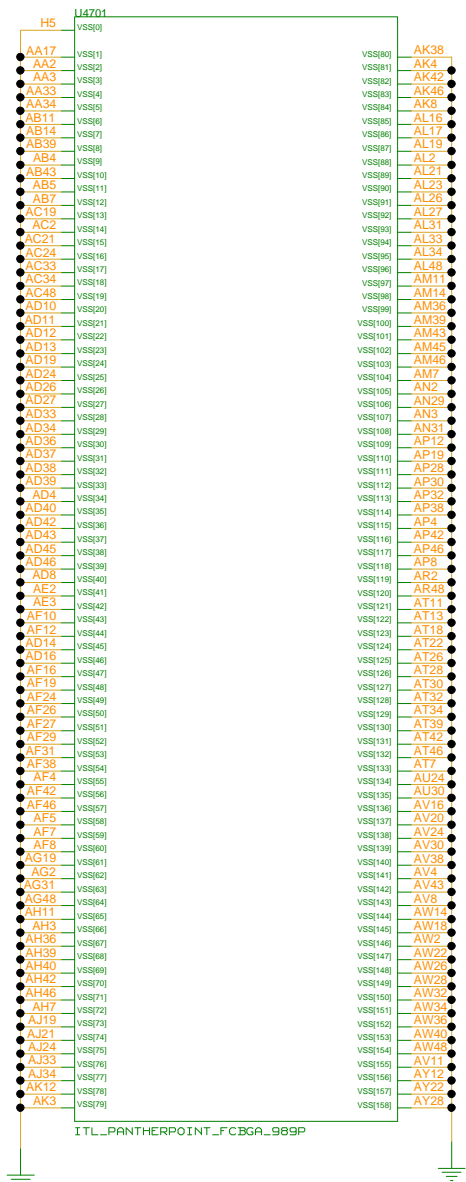
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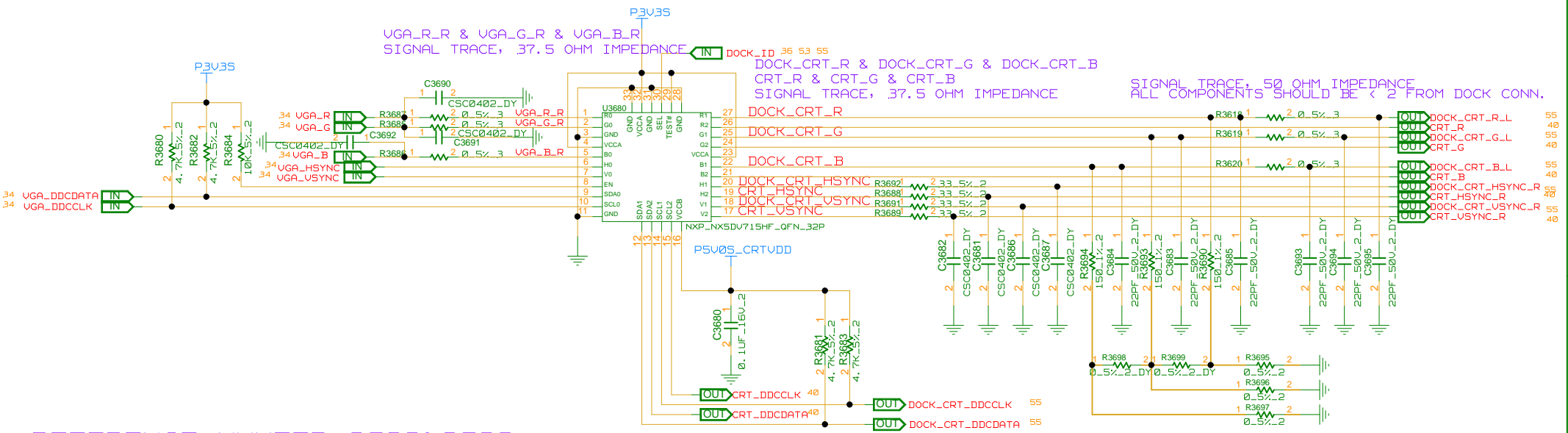
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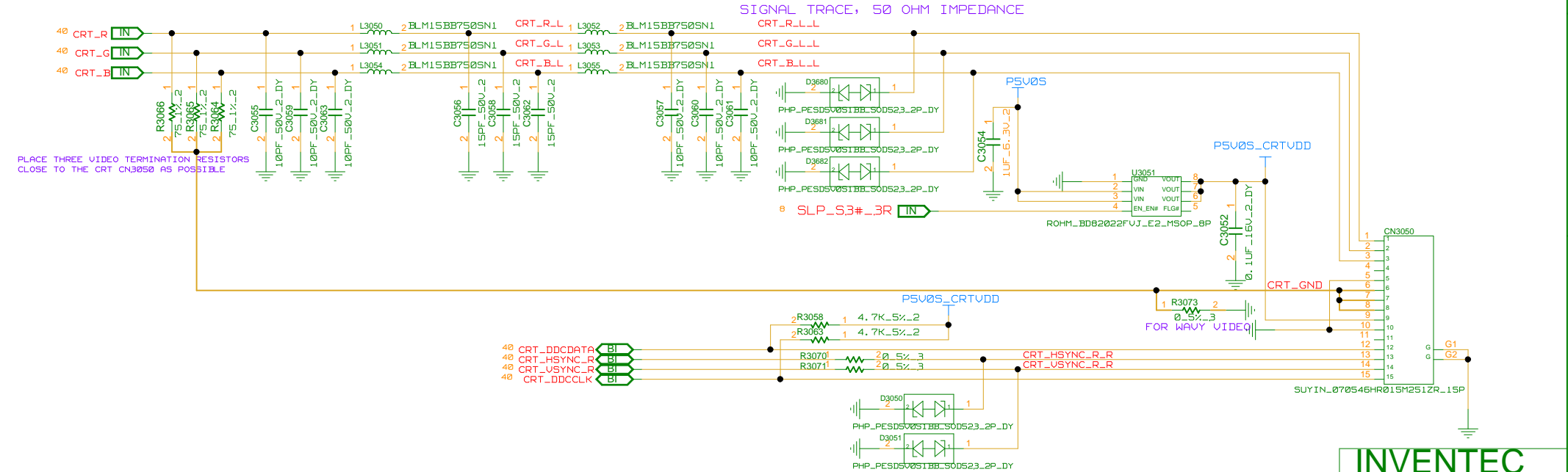
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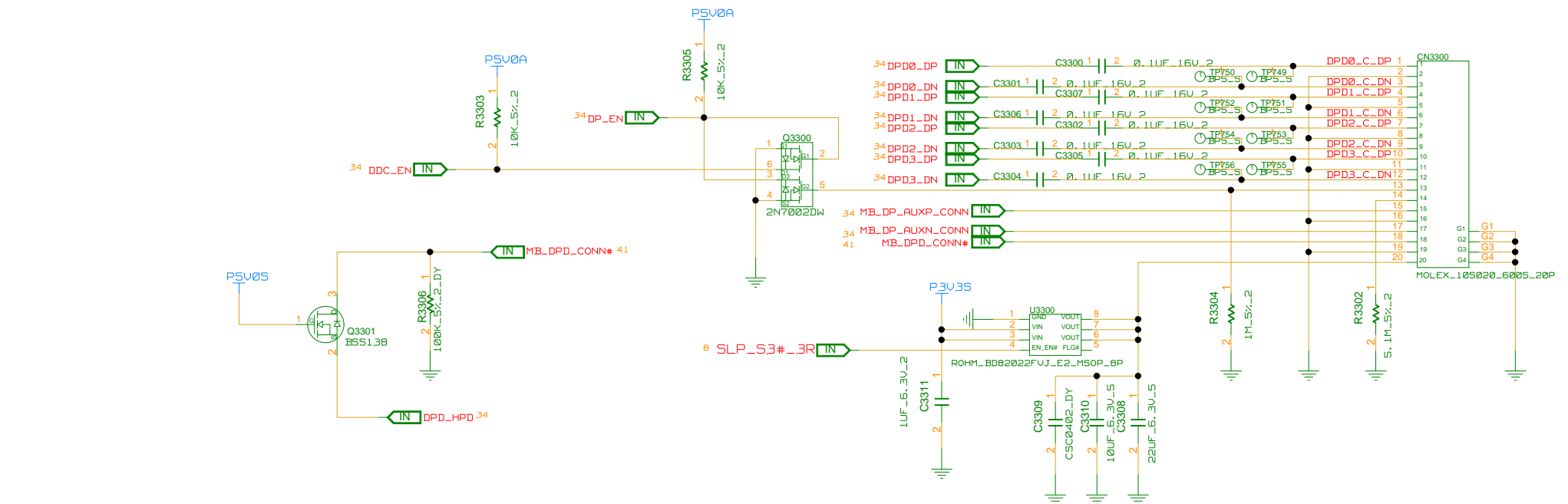
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TITLE			
CALVIN LMA PVP			
PANTHER POINT.9 (GND)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	< DOC. NUMBER >	A01
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NOTE : PUT ALL DOCK CRT COMPONENTS CLOSE TO DOCK CONNECTOR AS POSSIBLE.

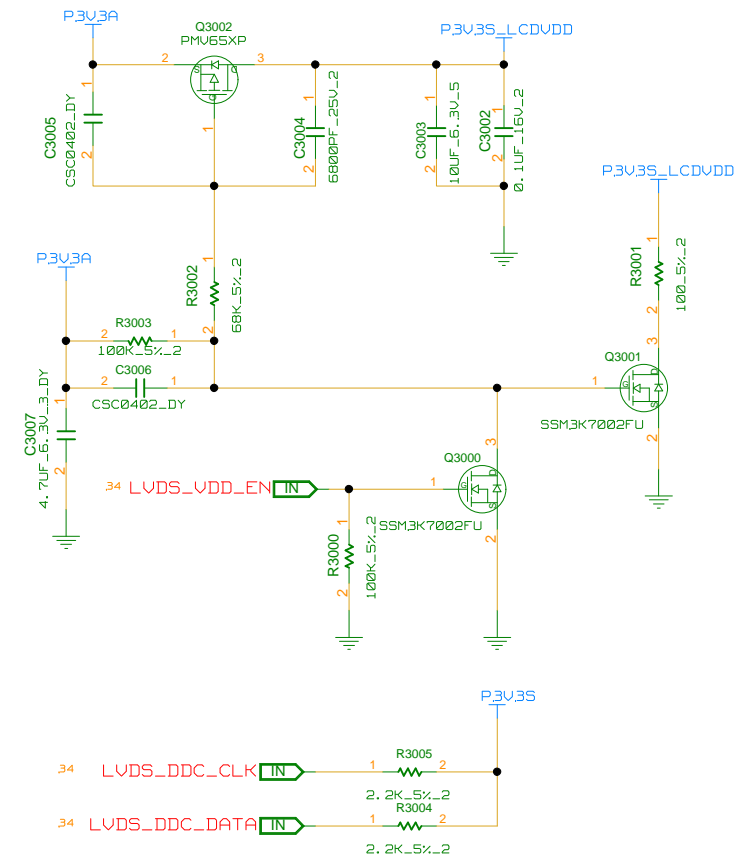


INVENTEC			
TITLE			
CALVIN_UMA_PUB			
VGA SWITCH / CRT			
SIZE	CODE	DOC NUMBER	REV
A3	CS	<DOC_NUMBER>	A01
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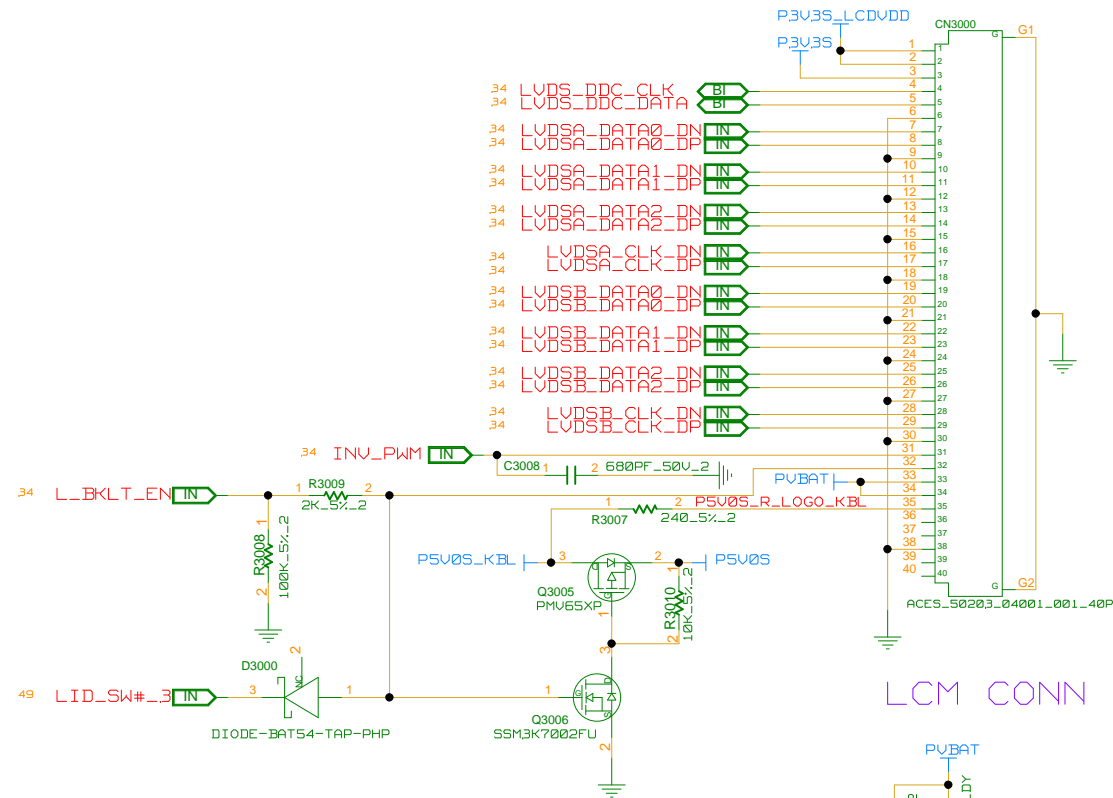


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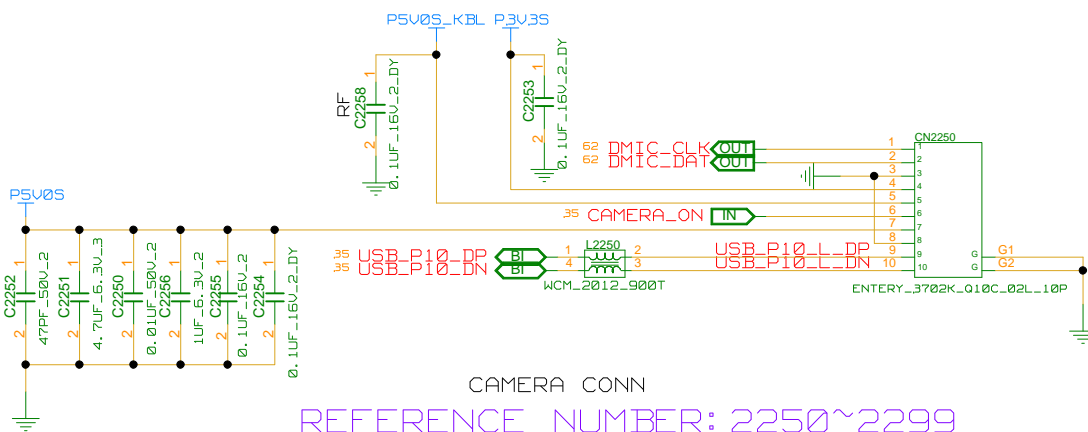
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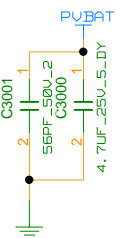


LCM CONN



CAMERA CONN

REFERENCE NUMBER: 2250~2299



INVENTEC

TITLE			
CALVIN_LMA_PVR			
LCH & H200PH			
SIZE	CODE	DOC NUMBER	REV
A3	CS	<DOC_NUMBER>	A01
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EMPTY

REFERENCE NUMBER: 3400~3499

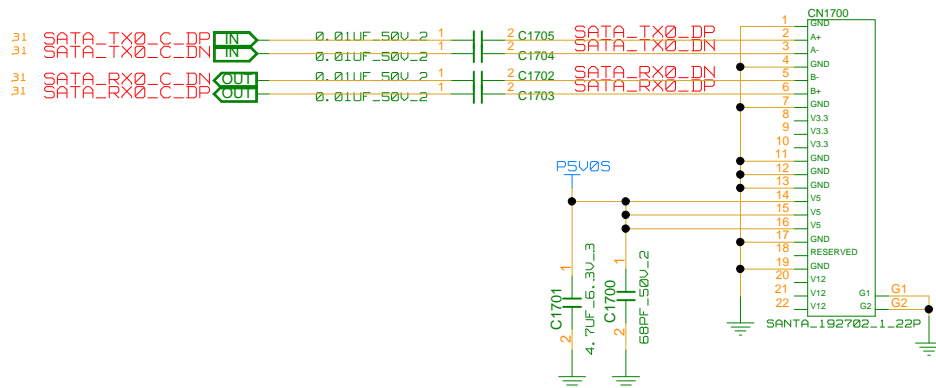
INVENTEC

TITLE
CALVIN,UMA_PUB
EDP TO LVDS (SPARE)

SIZE A3	CODE CS	DOC NUMBER <DOC_NUMBER>	REV A01
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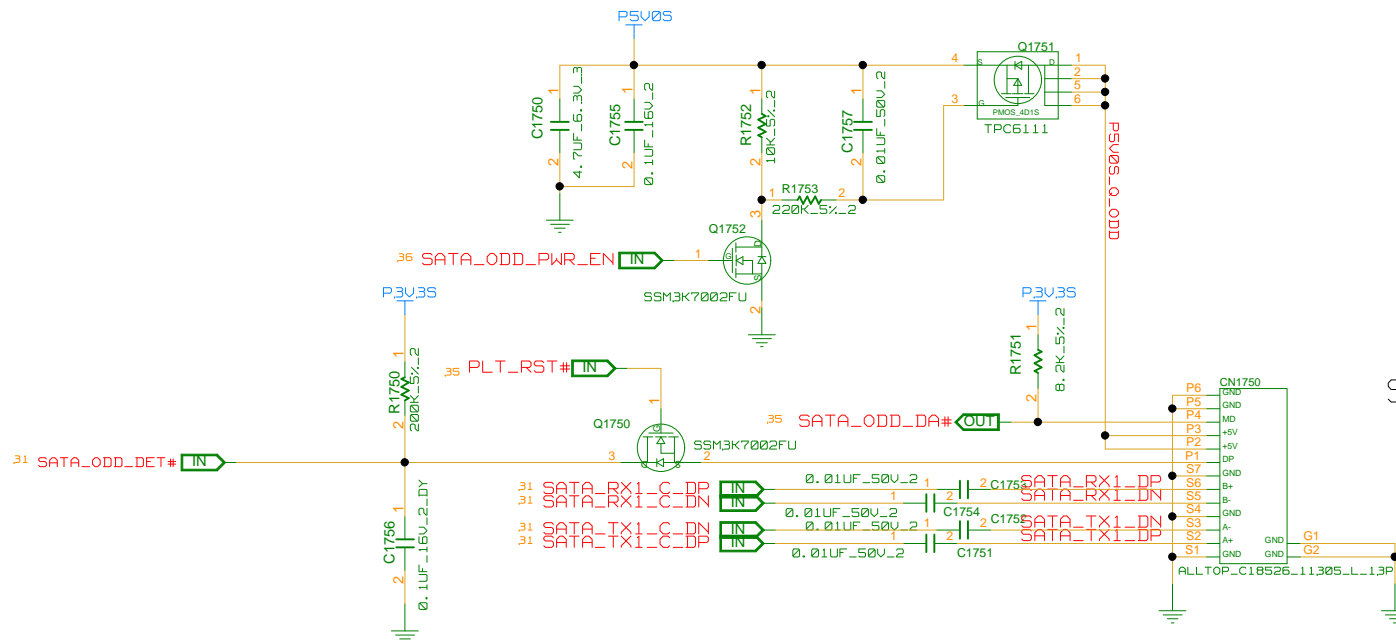
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CHANGE by Fdu DATE 01-NOV-2011



SATA HDD

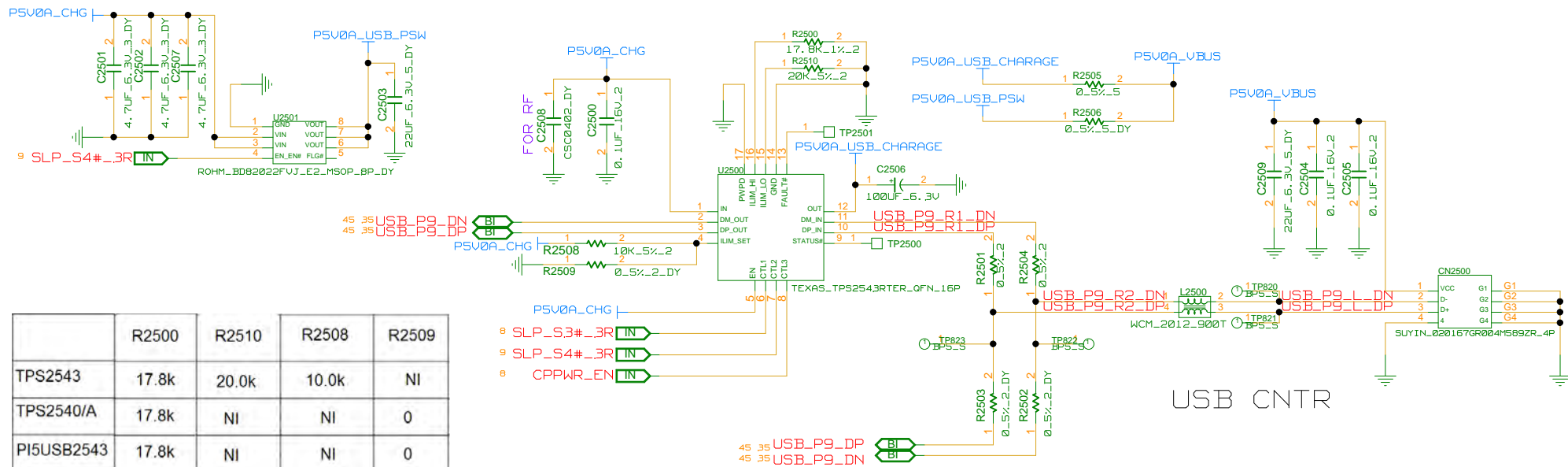
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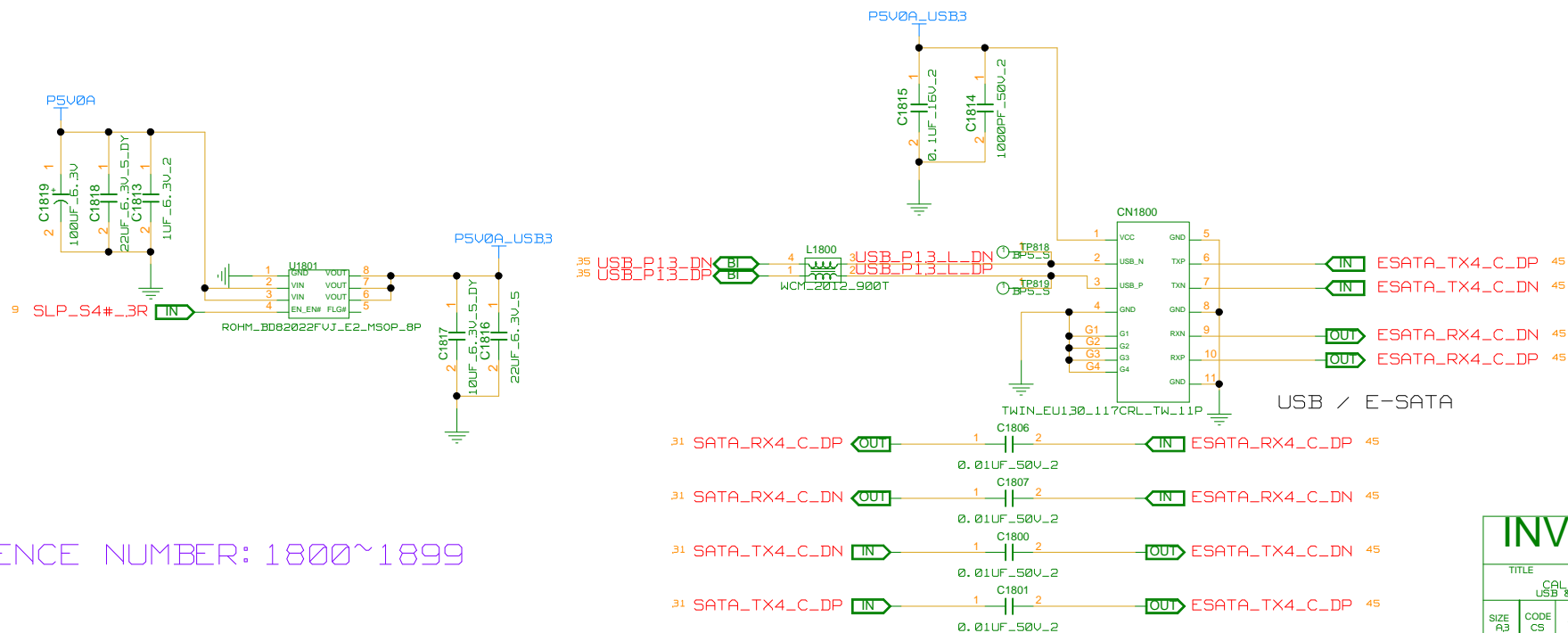
SATA ODD

REFERENCE NUMBER: 1750~1799

INVENTEC			
TITLE			
CALVIN_LMA_PVR SATA HDD S_ODD CNTR			
SIZE A3	CODE CS	DOC.NUMBER <DOC_NUMBER>	REV A01
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REFERENCE NUMBER: 2500~2599



REFERENCE NUMBER: 1800~1899

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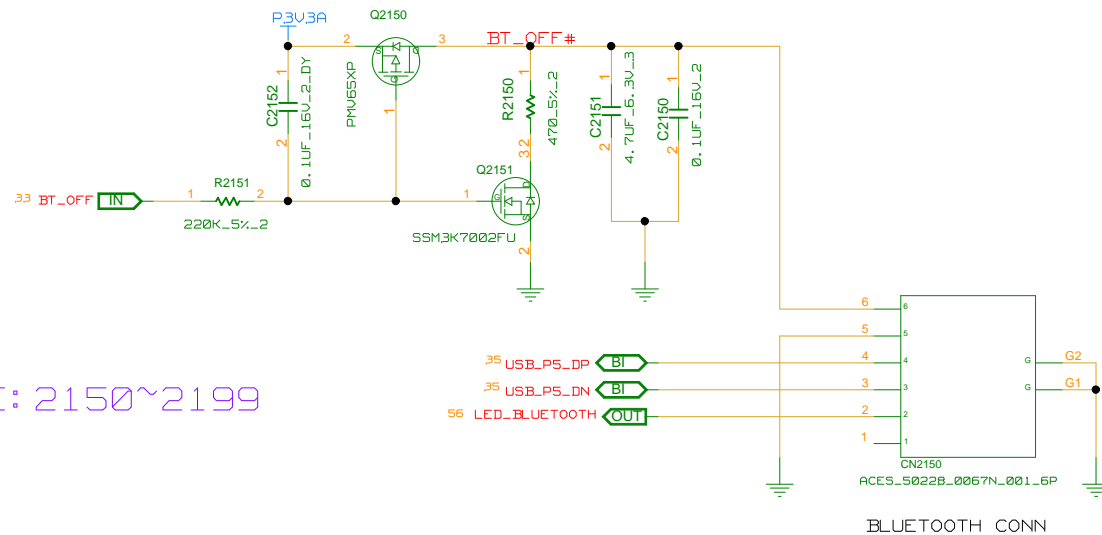
TITLE			
CALVIN_LUMA_PUR USB & ESATA COMBO / USB CHARGER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	<DOC. NUMBER>	A01
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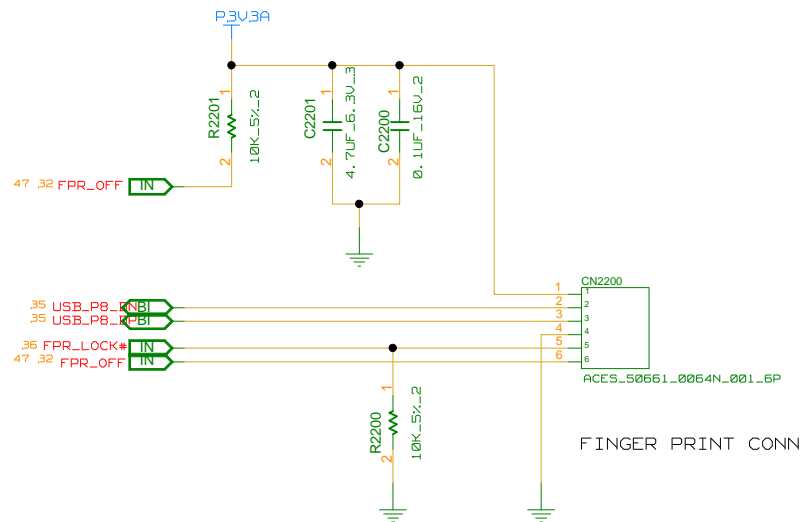
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REFERENCE: 2150~2199



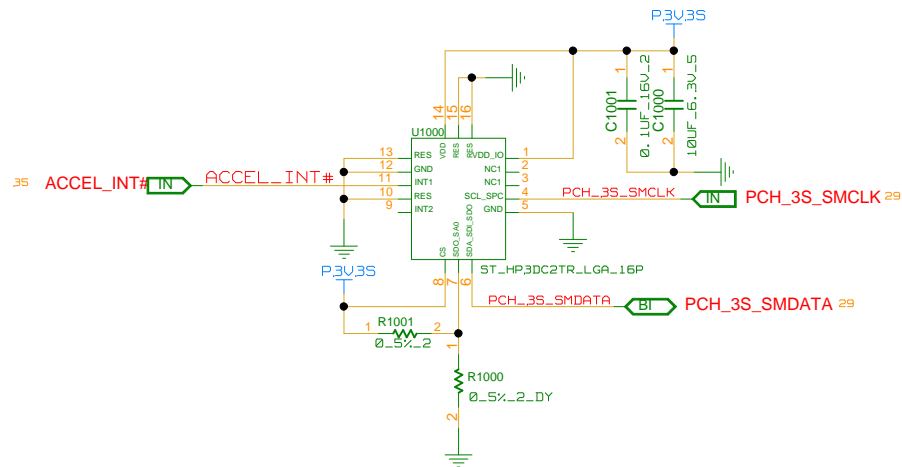
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INVENTEC

TITLE			
CALVIN_UMA_PUP BLUE TOOTH & FINGER PRINTER CNTR			
SIZE	CODE	DOC NUMBER	REV
A3	CS	<DOC_NUMBER>	A01
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REFERENCE NUMER : 1000~1099



ACCELEMETOR

INVENTEC

TITLE
CALVIN_LMA_PUR
ACCELEMETOR

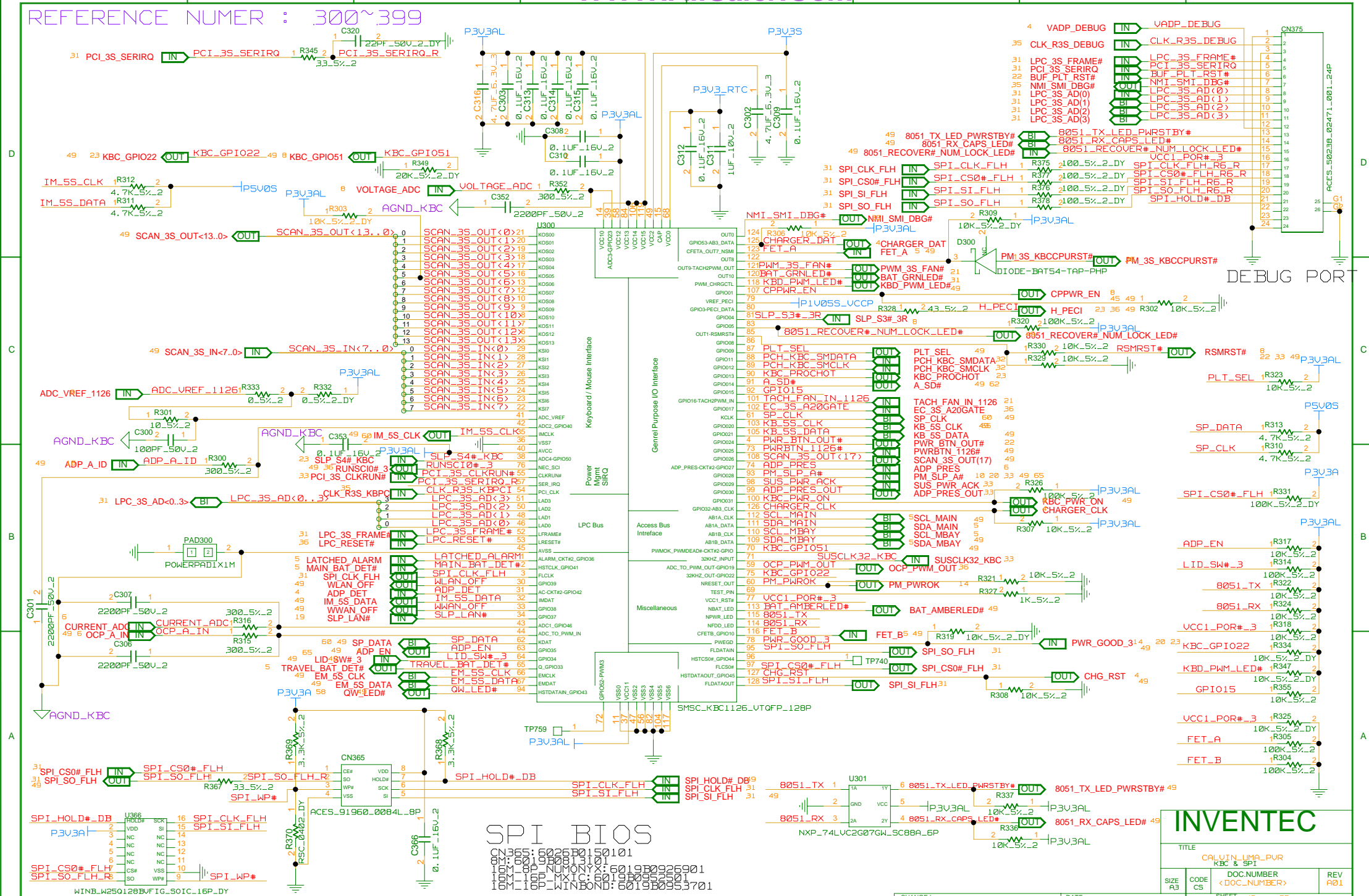
DOC.NUMBER
<DOC_NUMBER>

REV
A01

CHANGE by F.d.1 DATE 01-NOV-2011

SHEET 48 of 66

REFERENCE NUMER : .300~.399



SP I BIOS

CN365:6026B0150101
8M:6019B0813101
16M-8P-NUM0YX:6019B0926901
16M-16P-MXIC:6019B0952501
16M-16P-WINBOND:6019B0953701

INVENTEC

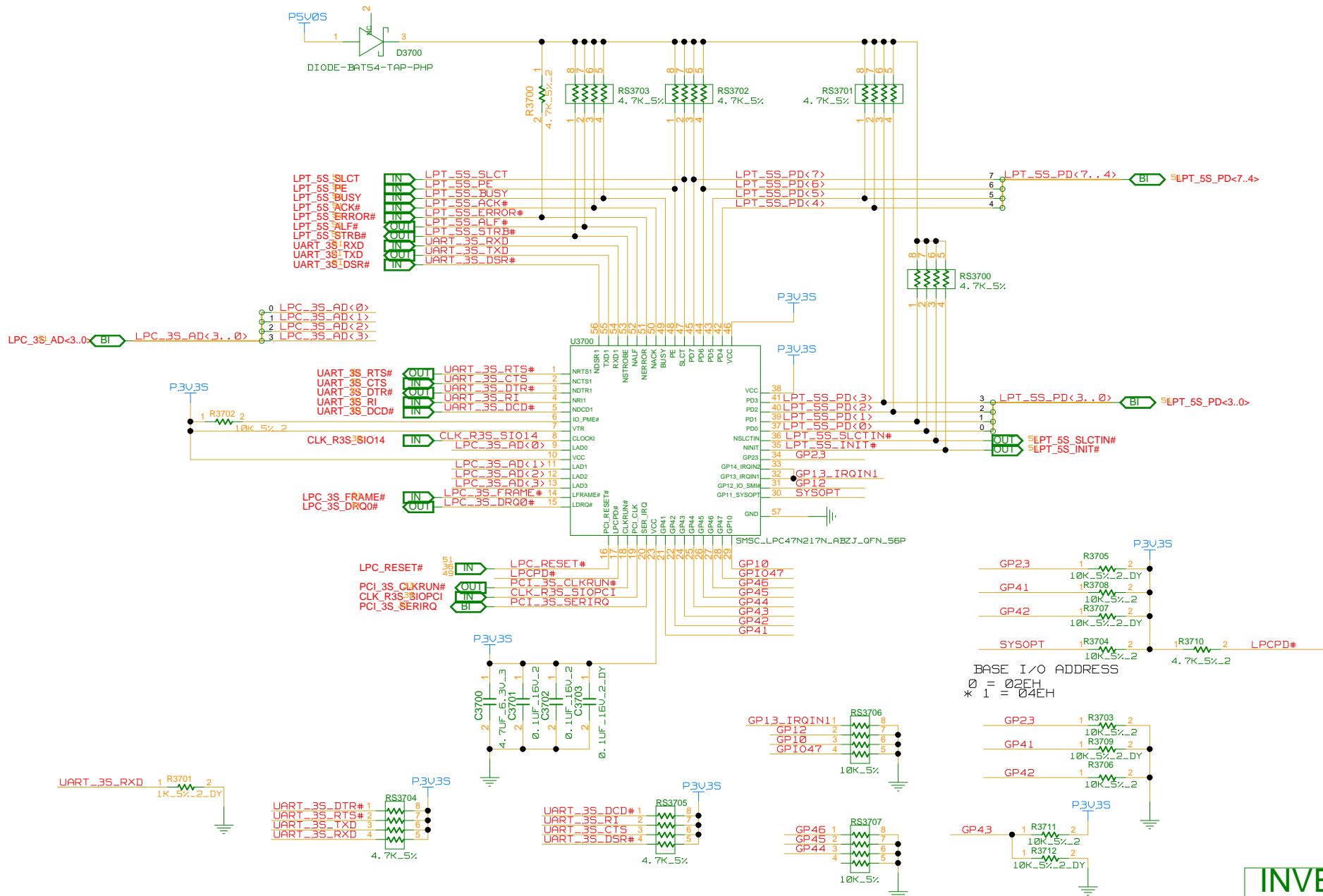
TITLE
CALUTIN LIMA RUP

		DOC NUMBER	
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SIZE A,B	CODE CS	DOCUMENT < DOC_NUMBER >	
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SHEET 50 of 66

REFERENCE NUMER : 3700~3799



INVENTEC

TITLE			
CALVIN_UMA_PVR			
SIZE	CODE	DOC NUMBER	REV
A3	CS	<DOC_NUMBER>	A01
SHEET 51 of 65			

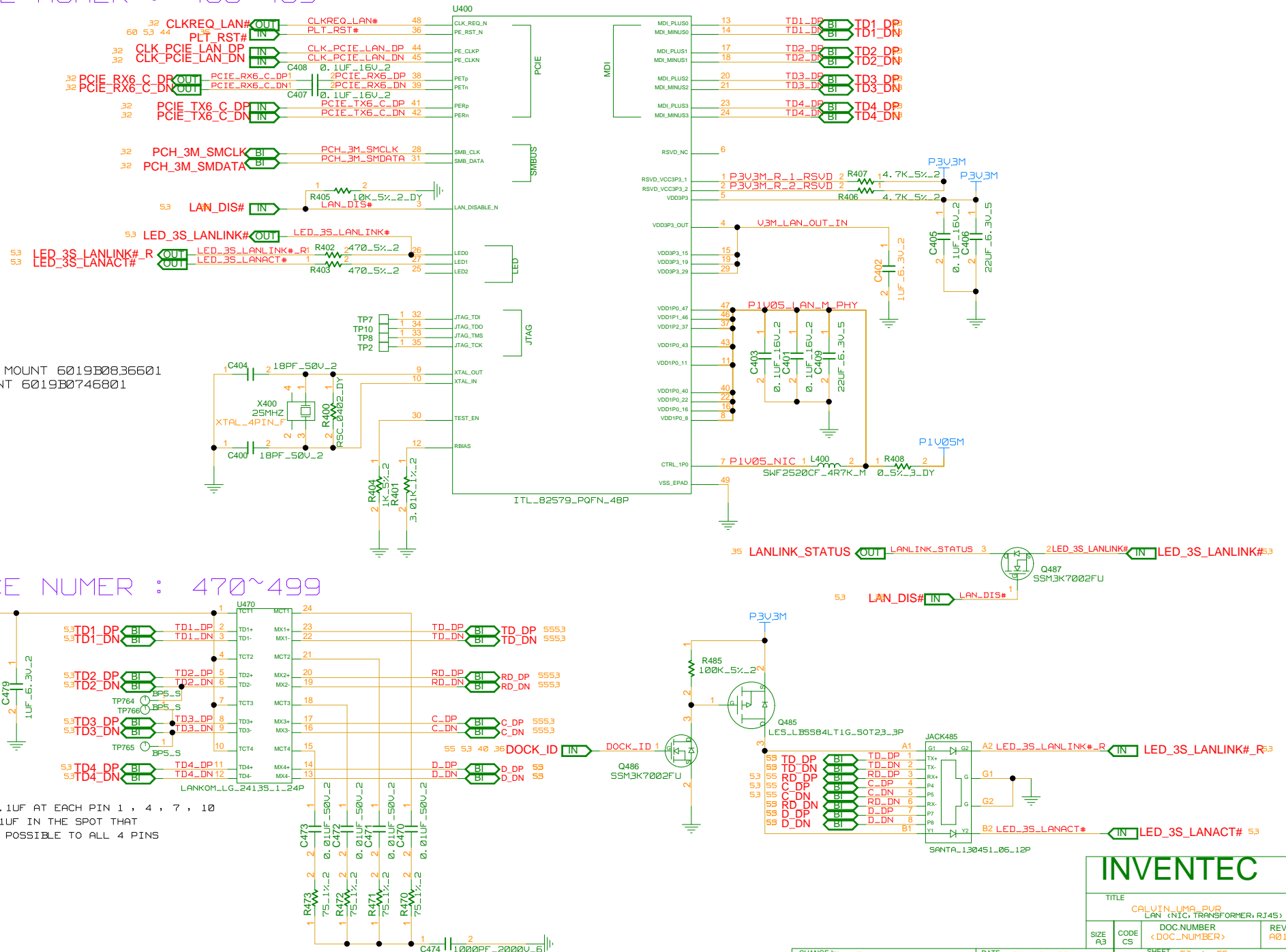
TPM 1.2
SLB9635 TCG REV 103
SLB9656 TCG REV 116 (W/OTP)



INVENTEC

CHANGE by	Ed1	DATE	01-NOV-2011
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LAYOUT NOTE:
TO PLACE ONE 0.1UF AT EACH PIN 1 , 4
AND PLACE THE 1UF IN THE SPOT THAT
IS AS CLOSE AS POSSIBLE TO ALL 4 PINS



INVENTEC

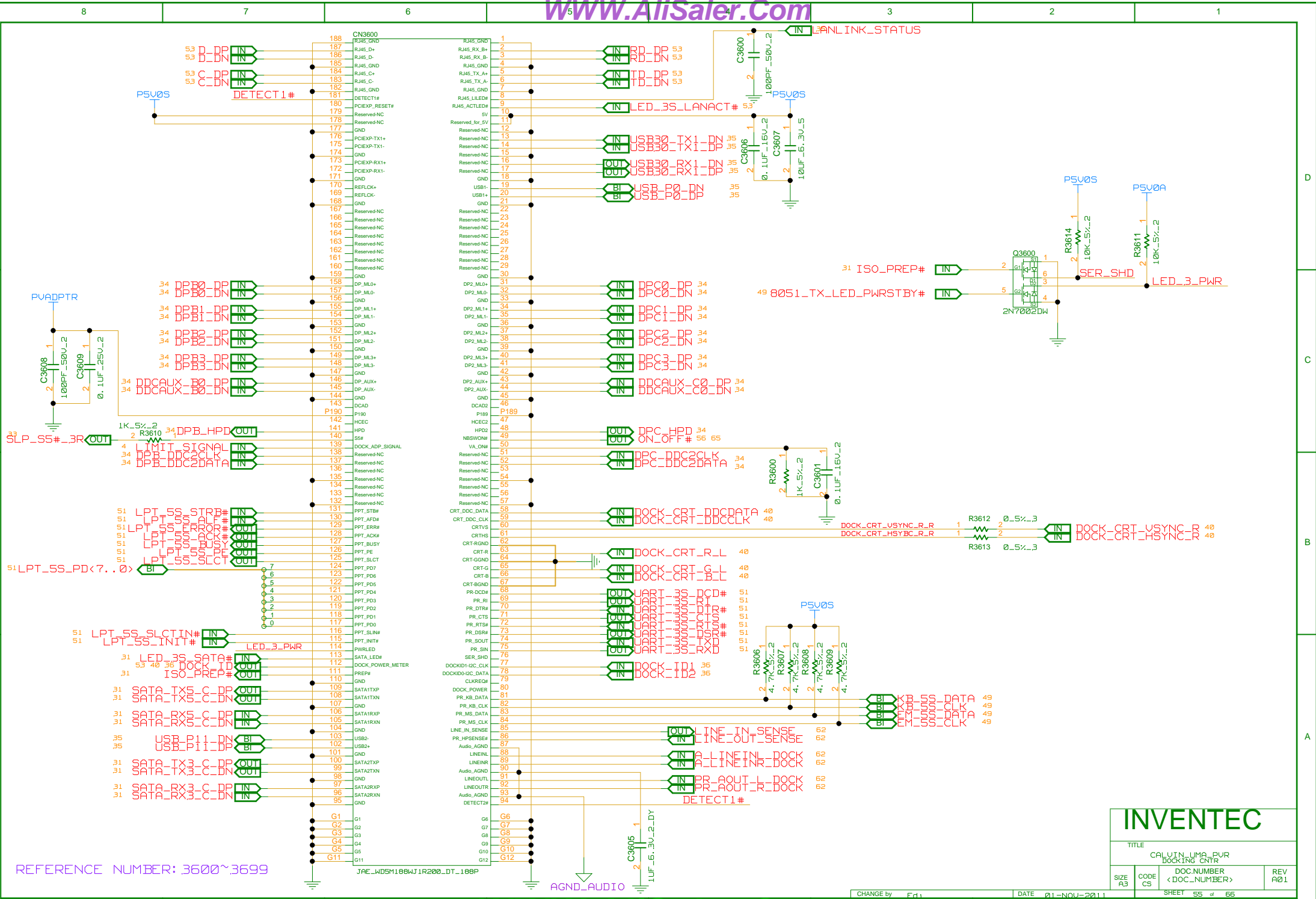
TITLE
CALVIN_UMA_PVR LAN (NIC, TRANSFORMER, RI45)

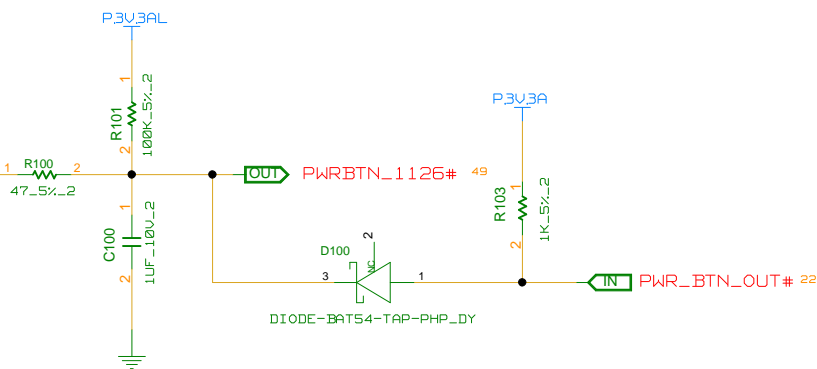
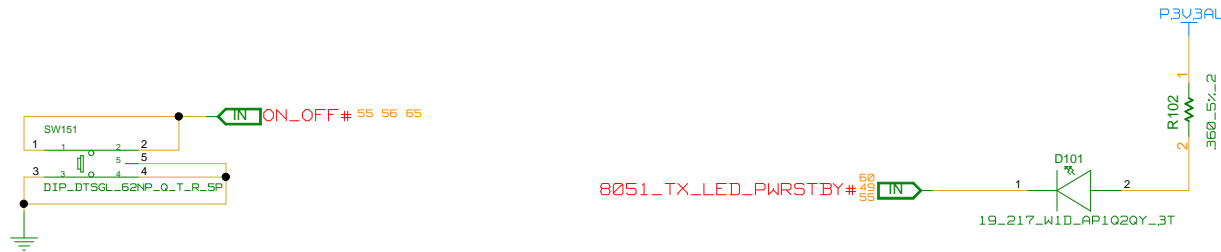
SIZE	CODE	DOC. NUMBER (DOC. NUMBER)	REV 001
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SIZE A3	CS	<DOC_NUMBER>	H01
SHEET 53 of 66			

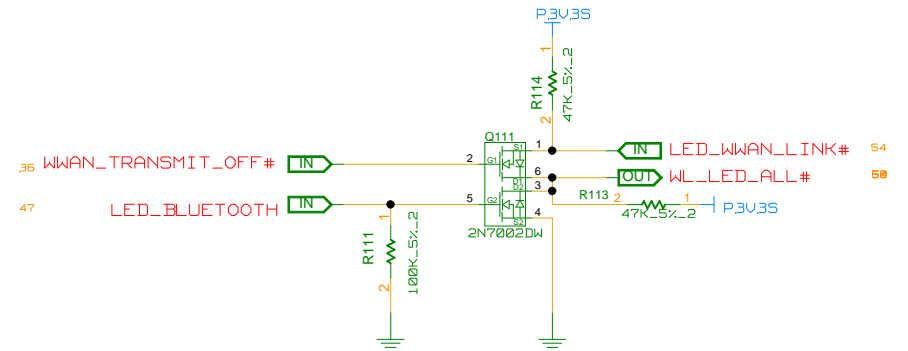


CHANGE by	F.d.	DATE	01-NOV-2011	SHEET	54 of 66
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POWER / STANDBY LED



WLAN_WWAN_BLUE TOOTH_LED

REFERENCE NUMBER: 100~199

INVENTEC

TITLE
CALVIN_UMA_PUP
POWER & WLAN_LED

DOC NUMBER
<DOC_NUMBER>

REV
A01

CHANGE by F.d. DATE 01-NOV-2011

SHEET 56 of 65

SCREW

1 S27
SCREW320_900_1P

1 STD3
DIPPAD_1.15_6_0_TOP
1 STD4
DIPPAD_1.15_6_0_TOP

WWAN

1 STD1
STDPAD_1.15_6_TOP
1 STD2
STDPAD_1.15_6_TOP

WLAN

1 S2
SCREW320_680_800_1P

1 S5
SCREW300_700_800_1P

1 S6
SCREW320_800_1P

1 S12
SCREW550_850_700_NP_1P

1 S23
SCREW550_850_700_NP_1P

1 S17
SCREW300_800_600_1P

1 S62
SCREW280_500_1P

1 STD26
STDPAD_1.2_0_6-TOP
1 STD27
STDPAD_1.2_0_6-TOP

MDC

1 FIX105
FIX_MASK
1 FIX106
FIX_MASK
1 FIX107
FIX_MASK
1 FIX108
FIX_MASK
1 FIX109
FIX_MASK
1 FIX110
FIX_MASK
1 FIX111
FIX_MASK

1 S19
SCREW320_600_1P

1 S22
SCREW320_800_600_1P

1 S13
SCREW330_600_1P

1 S15
SCREW330_600_1P

1 S16
SCREW330_600_1P

1 S14
SCREW330_0_500_1P

1 S56
SCREW320_800_1P

CPU

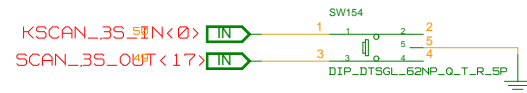
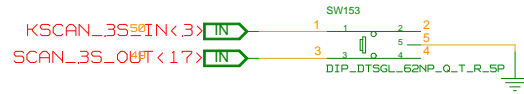
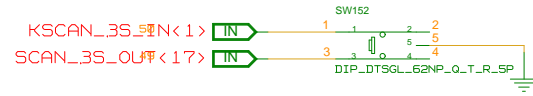
INVENTEC

TITLE
CALVIN_UMA_PVR
SCREW

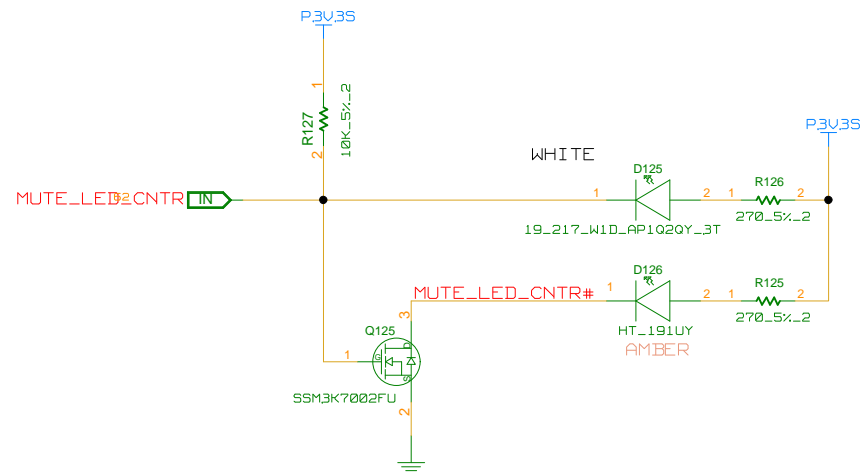
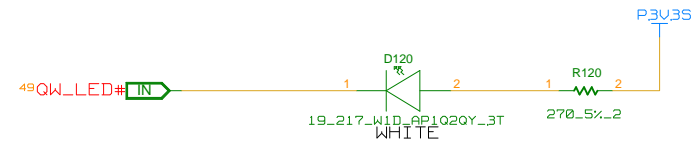
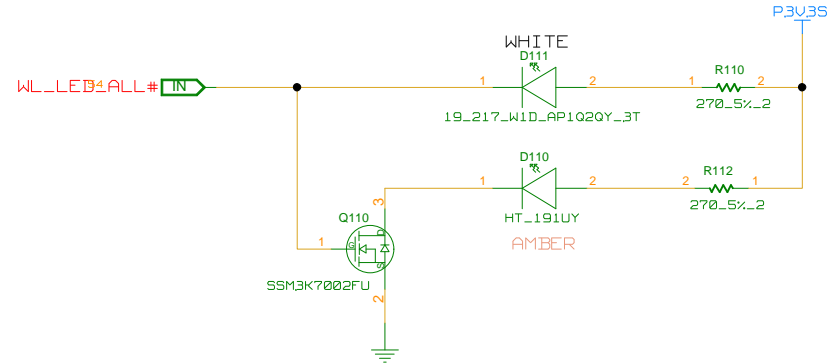
SIZE A3	CODE CS	DOC.NUMBER <DOC_NUMBER>	REV A01
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SHEET 57 of 65

CHANGE by F.d. DATE 01-NOV-2011



REFERENCE NUMBER: 100~199



INVENTEC

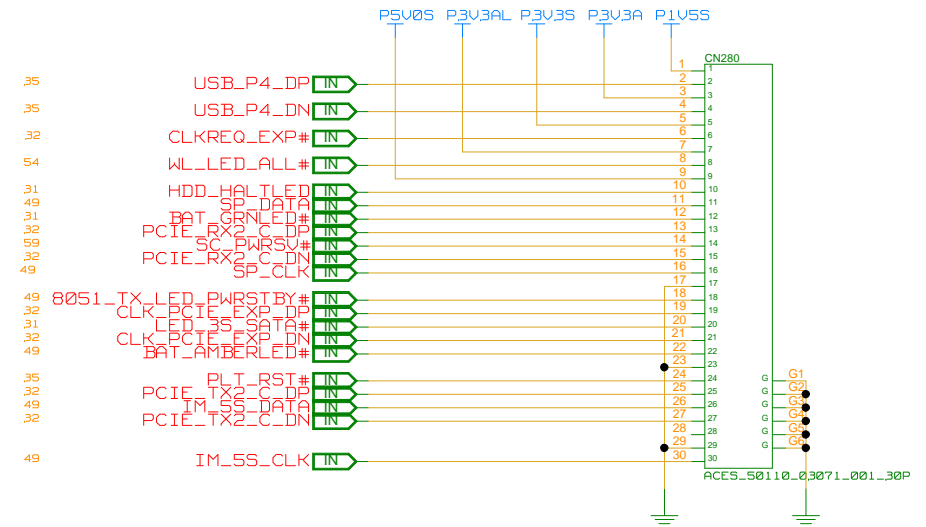
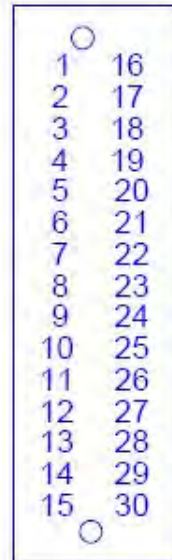
TITLE			
CALVIN_LUMA_PVR WIRELESS / QUICK WEB / MUTE LED			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	<DOC. NUMBER>	A01
SHEET 58 of 65			



SHEET 59 of 66

EXPRESSCARD CONN

MB SIDE<CN280> PIN DEFINE DB SIDE<CN9001 > PIN DEFINE



EXCHANGE 6012B0069804 ON MB
6012B0029801 ON EXP CARD
EXPRESS CARD MB CONN.

REFERENCE NUMBER: 9000~9099

INVENTEC

TITLE CALVIN_LMA_PUB EXPRESS CARD CNTR

DOC NUMBER <DOC_NUMBER>

REV A01

SHEET 60 of 65

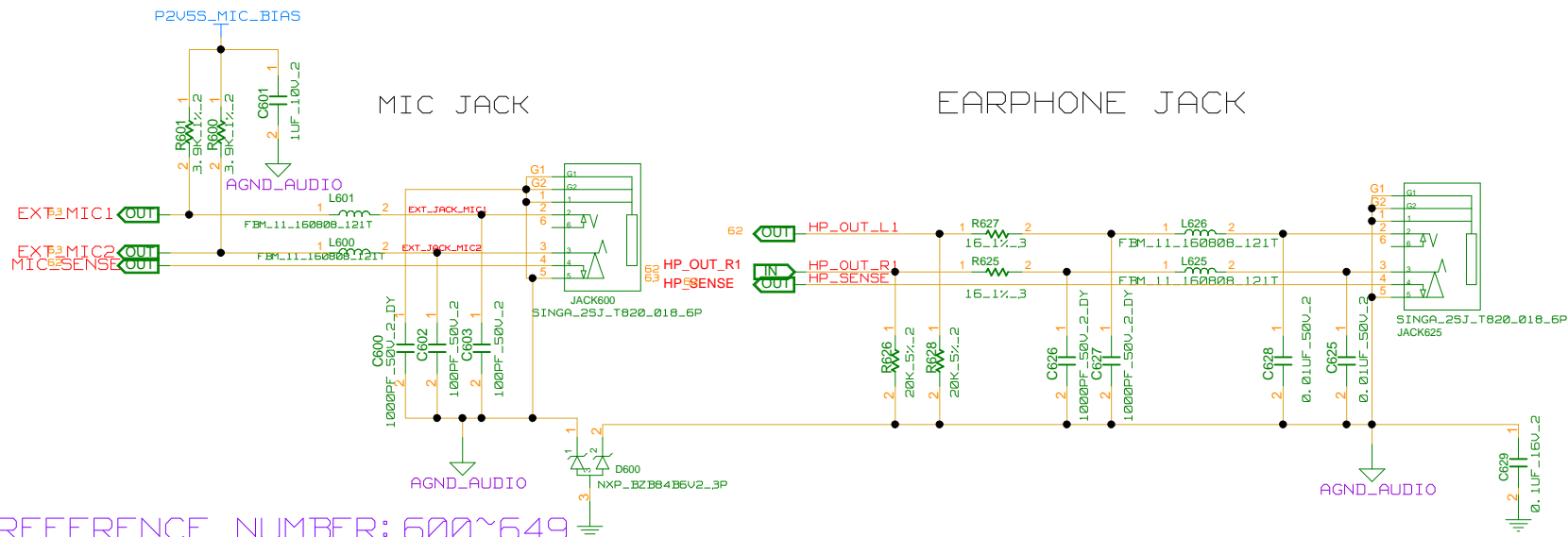
CHANGE by Fd1 DATE 01-NOV-2011

EMPTY

INVENTEC

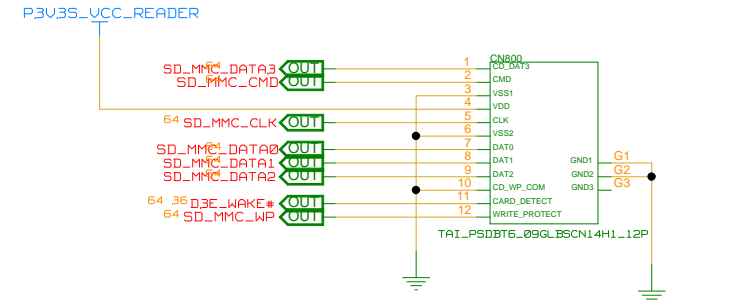
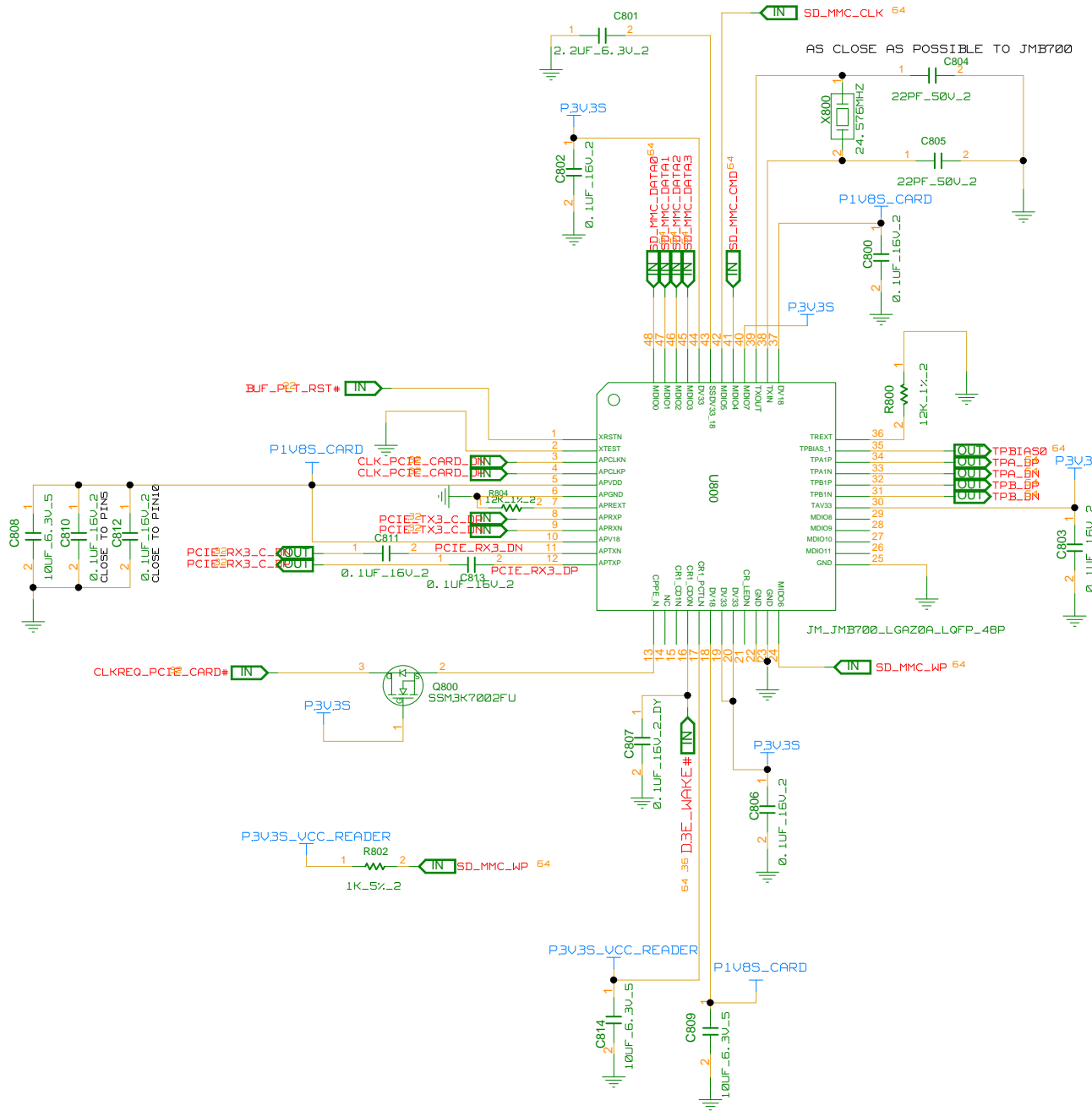
TITLE
CALVIN_LMA_PUB
EXPRESS_CARD/POINT_STICH/TOUCH_PAD<SPARE>

SIZE A3	CODE CS	DOC.NUMBER <DOC_NUMBER>	REV A01
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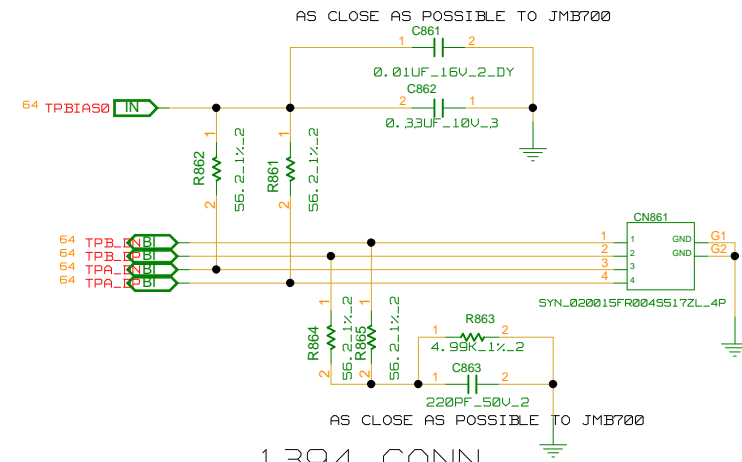


REFERENCE NUMBER: 600~649

INVENTEC			
TITLE CALVIN_LMA_PUR EXT. MIC / MIC / HP			
SIZE A3	CODE CS	DOC NUMBER <DOC_NUMBER>	REV A01
SHEET 63 of 66			



SD/MMC CONN

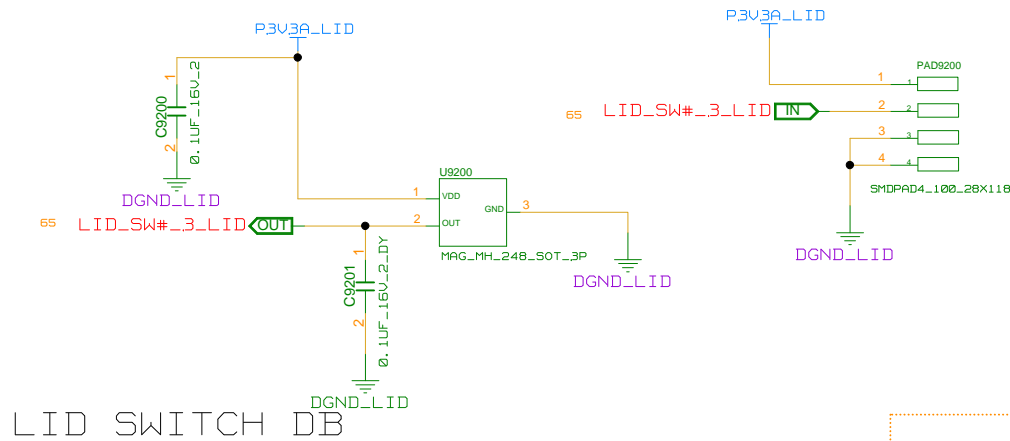


1.394 CONN.

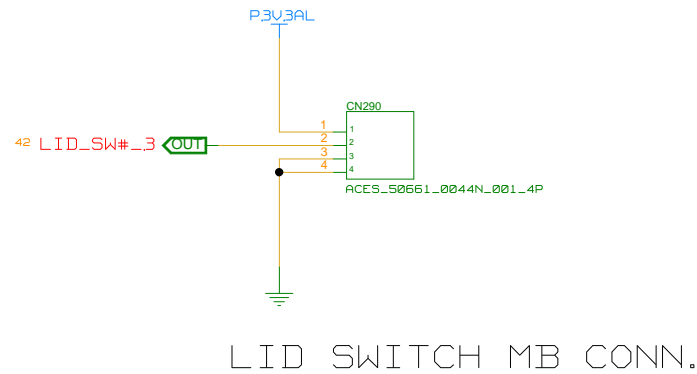
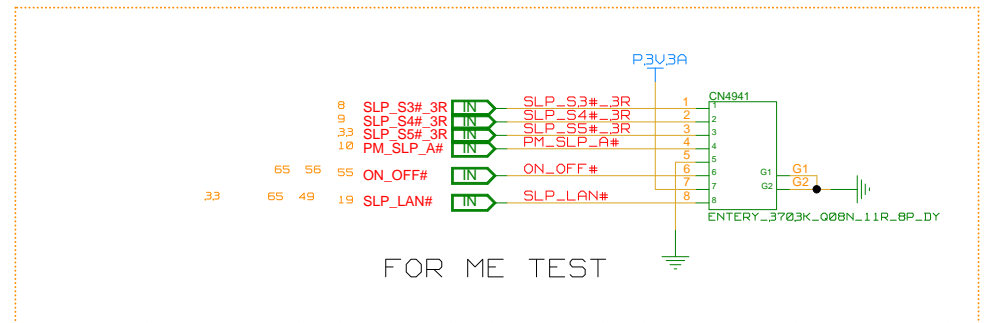
INVENTEC

TITLE			
CALVIN_UMA_EVP			
CARD READER CTRL / 1.394 CONN / SD CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	<DOC. NUMBER>	A01

REFERENCE NUMBER: 800~899



REFERENCE NUMBER: 9200~9299



INVENTEC

TITLE
CALVIN_UMA_PVR
LID SWITCH

SIZE A3 CODE CS DOC NUMBER <DOC_NUMBER> REV A01

CHANGE by F.d. DATE 01-NOV-2011 SHEET 65 of 65

