

A B C D E F

RI-NR1-2011		
DATE	CHANGE NO.	REV

CALVIN UMA

PV BUILD

2011.11.01

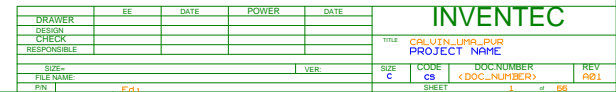


TABLE OF CONTENTS

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(OCF)	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			
SIZE A3	CODE CS	DOC NUMBER 1300x1100E070	REV A01
SHEET 2 of 65			

CHANGE by **KXX**

DATE **05-MAR-2011**

3

2

1

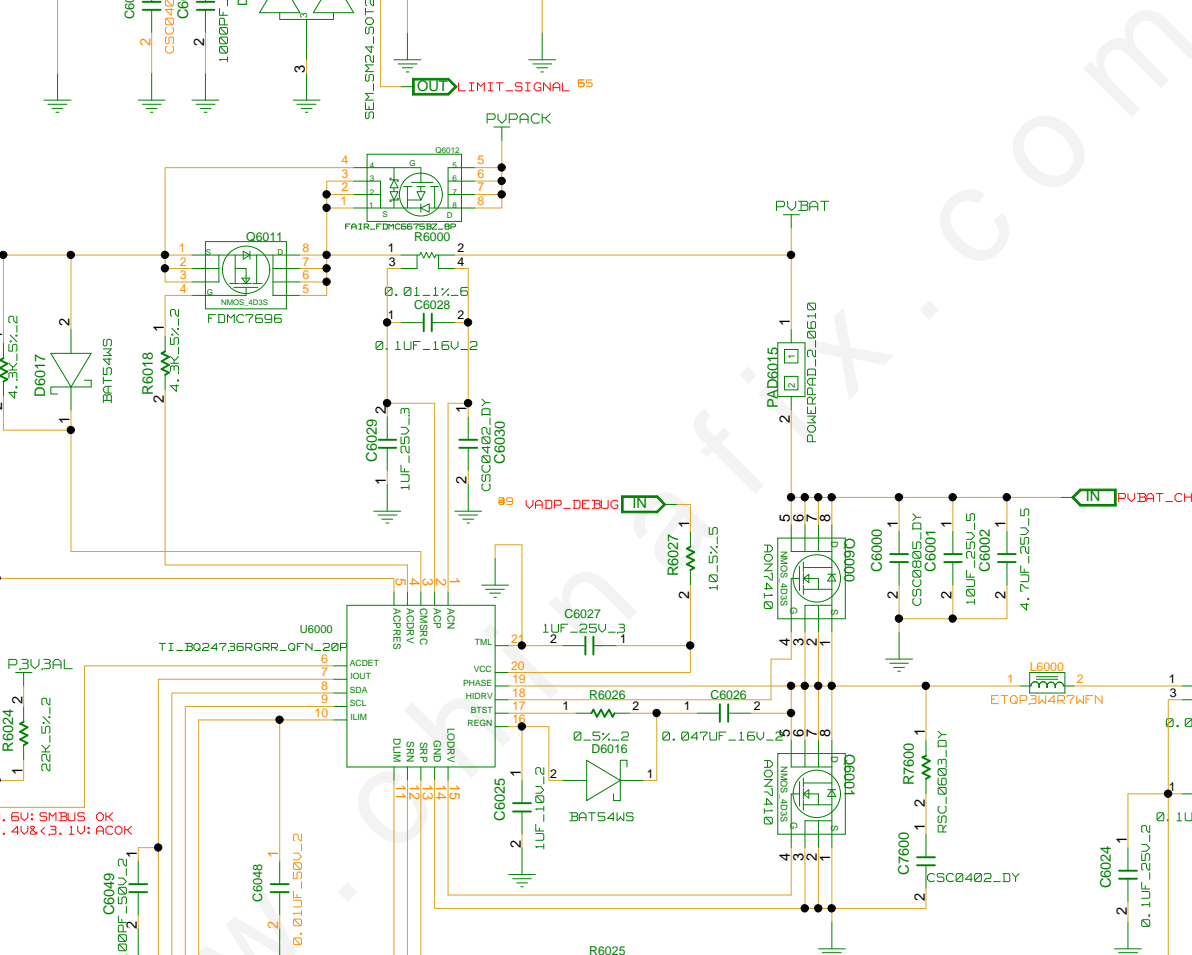
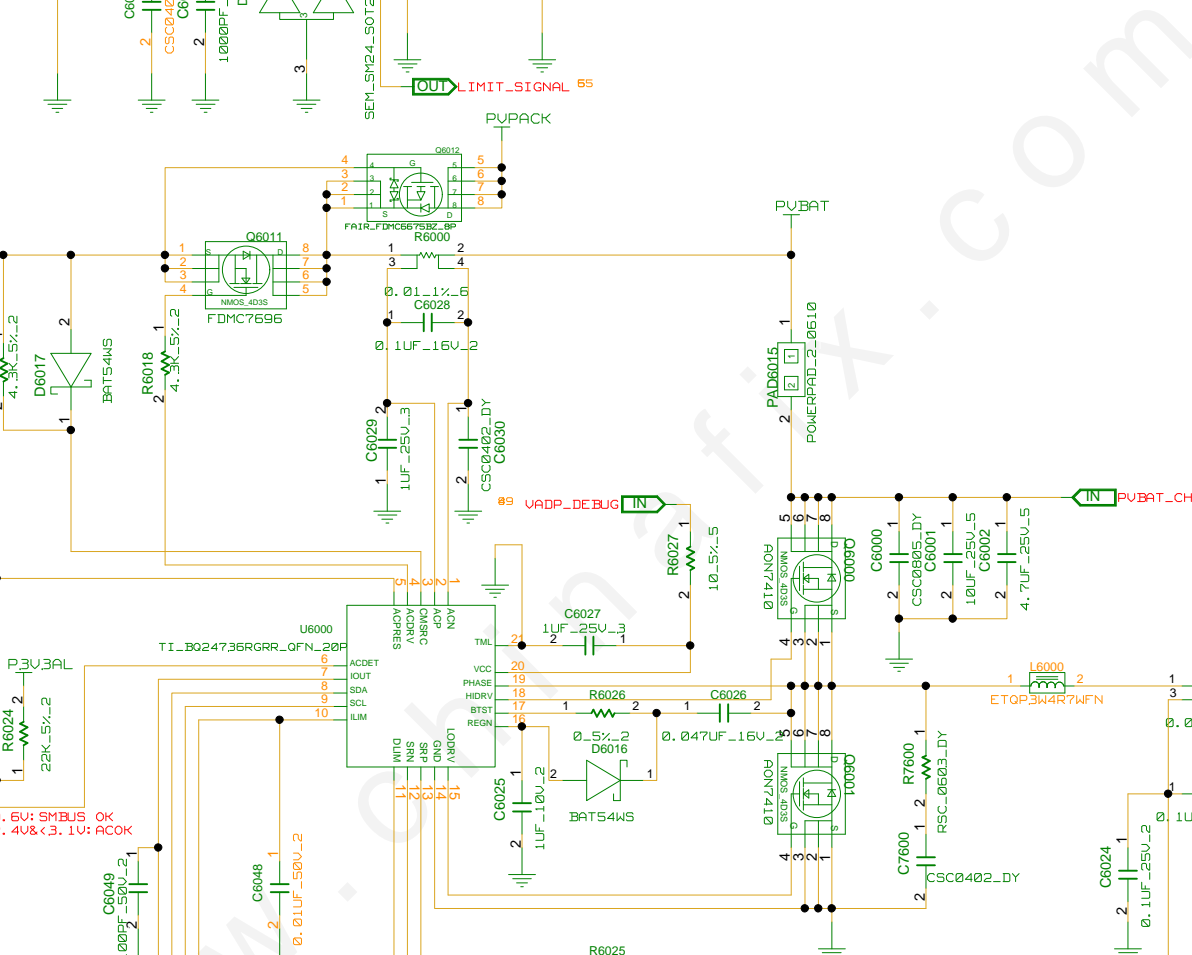


TITLE	CALVIN_UMA_PVR
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BLOCK DIAGRAM		
SIZE	CODE	DOC.NUMBER

SIZE A3	CODE CS	< DOC_NUMBER
		SHEET 3 of 6

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CS	SHEET 4 of 66
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INVENTEC

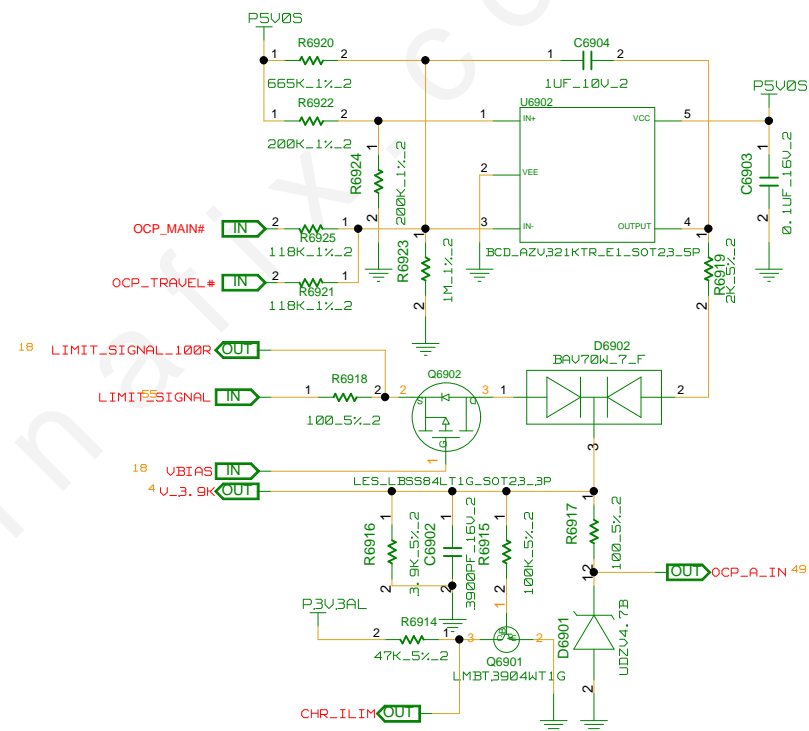
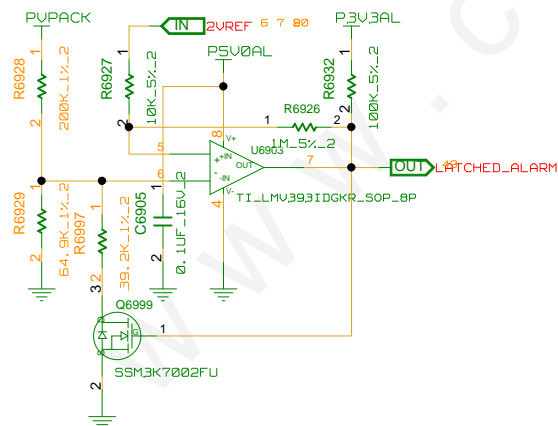
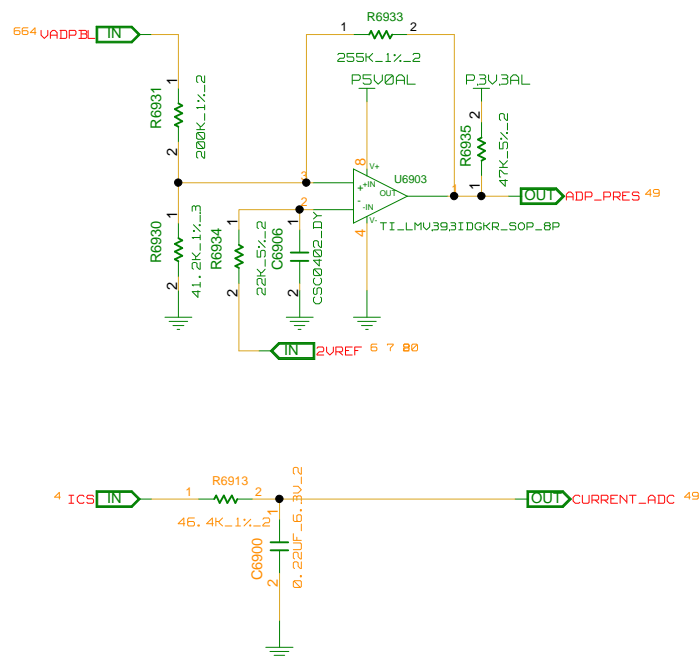
TITLE
CALVIN LIMA RUIZ

SIZE	CODE	DOC. NUMBER (DOC. NUMBER)	RE CO
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A3	CS	(DOC_NUMBER)	HA
	SHEET 5 of 66		

CHANGE by	Ed1	DATE	01-NOV-2011
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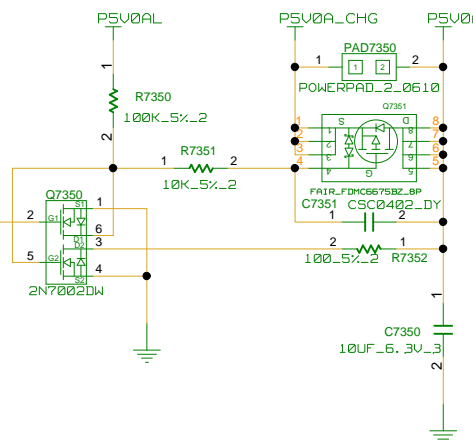
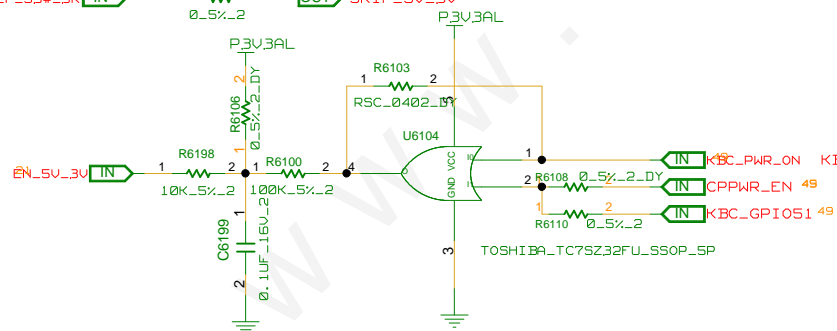
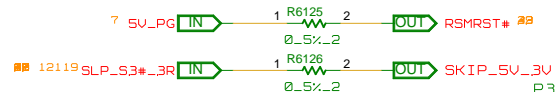
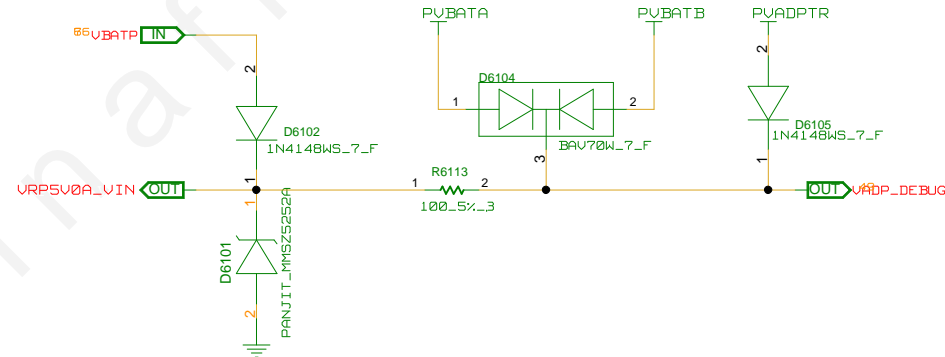
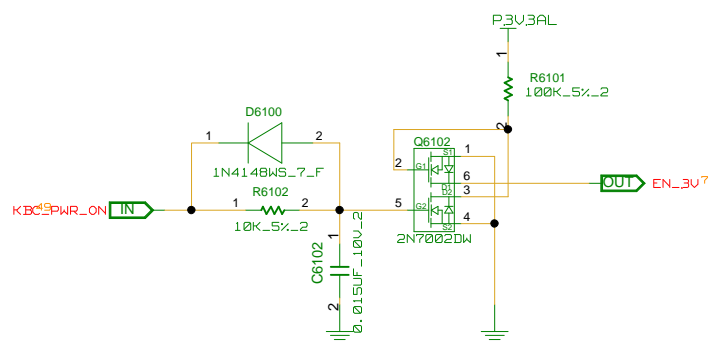
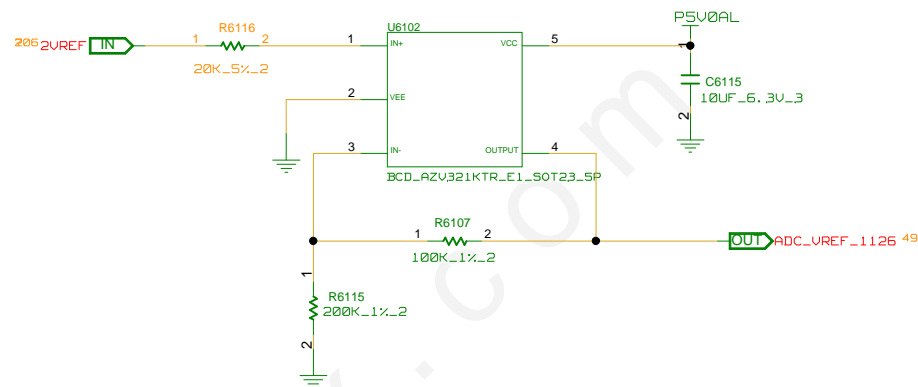
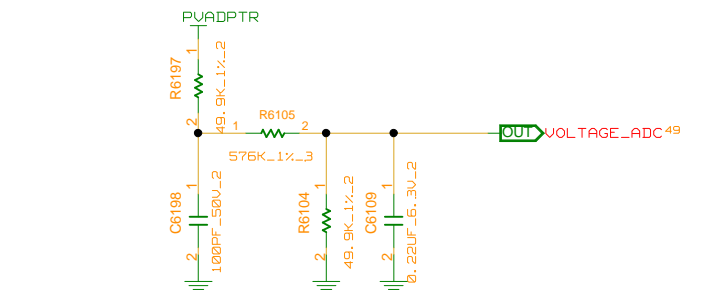
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INVENTEC

TITLE			
CALVIN_UMA_PUR SYSTEM POWER(OCF)			
SIZE A3	CODE CS	DOC.NUMBER <DOC_NUMBER>	REV A01
SHEET 6 of 66			





INVENTEC

TITLE CALVIN_LMA_PUR
P3V3A&PSV0A_CHG PORT

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

SHEET 8 of 65

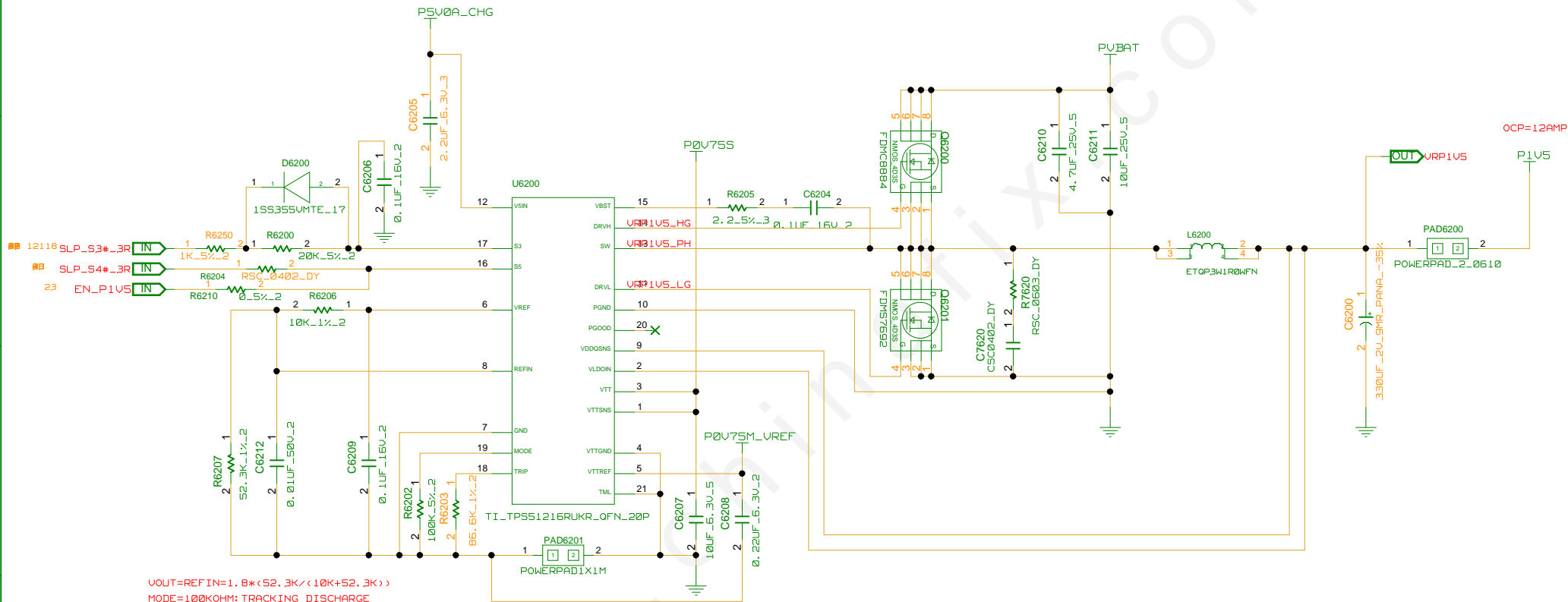


Table 1. S3/S5 Power State Control

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

INVENTEC

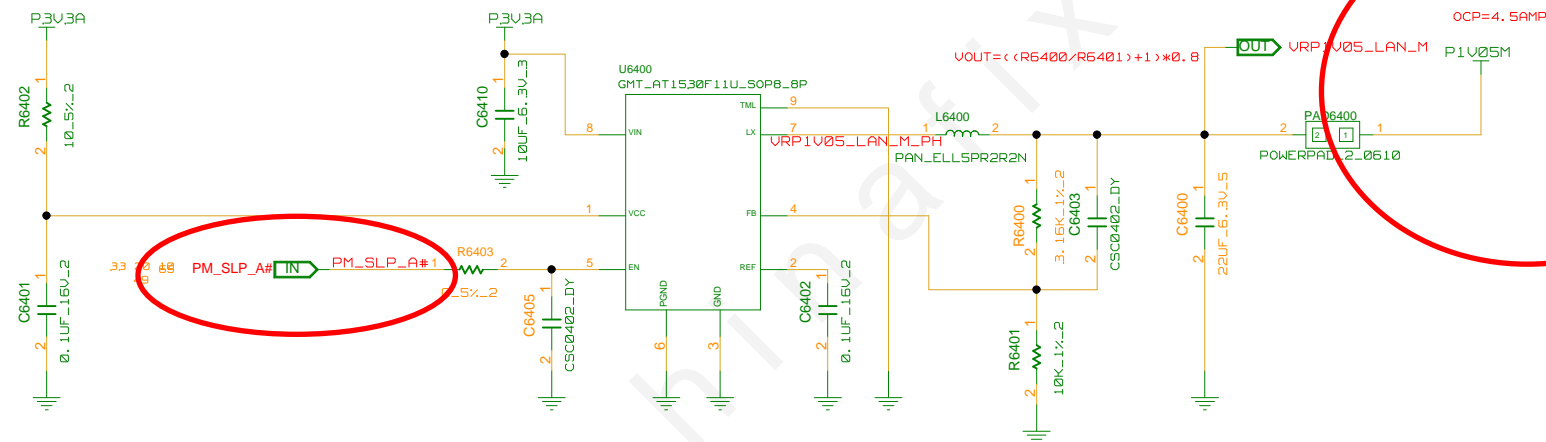
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SYSTEM POWER(P1V5)

DOC NUMBER
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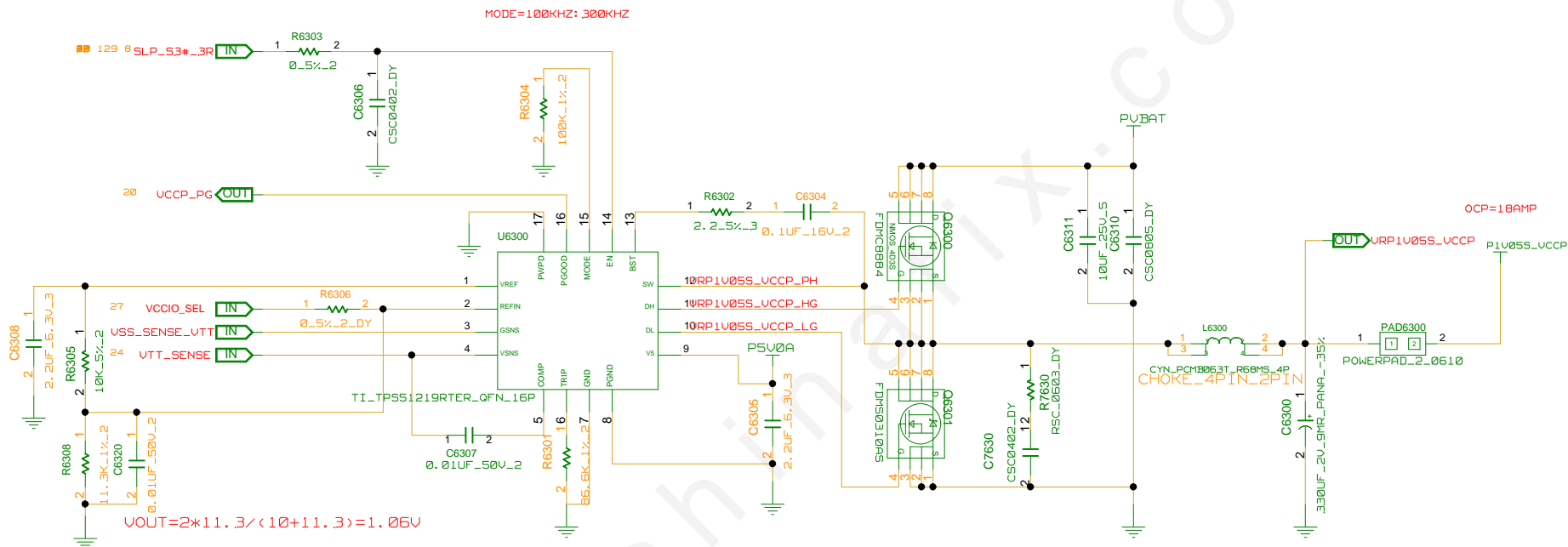
REV
A01

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

SHEET 9 of 65



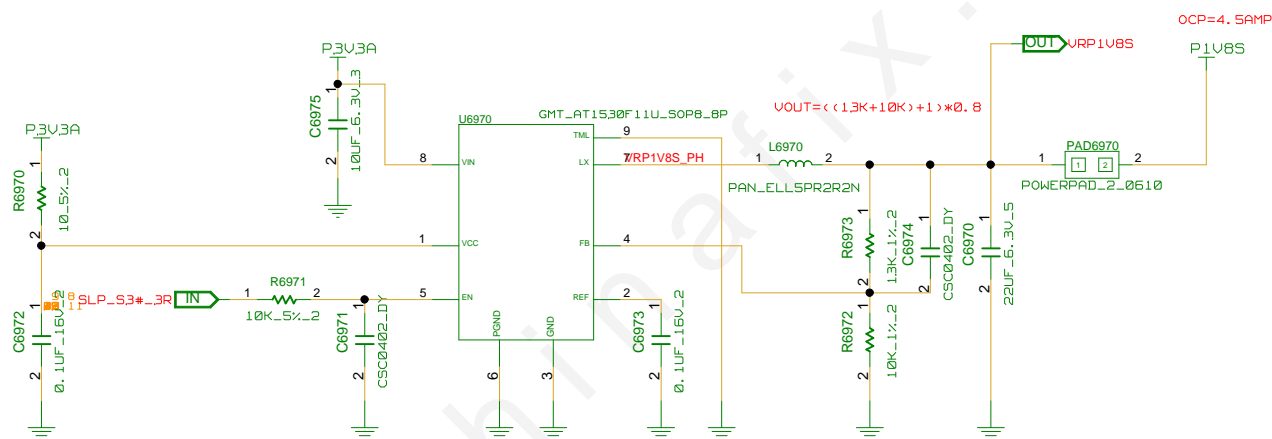
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SIZE		DOC NUMBER		REV
A3		<DOC_NUMBER>		A01
CODE	CS	SHEET 10 of 65		



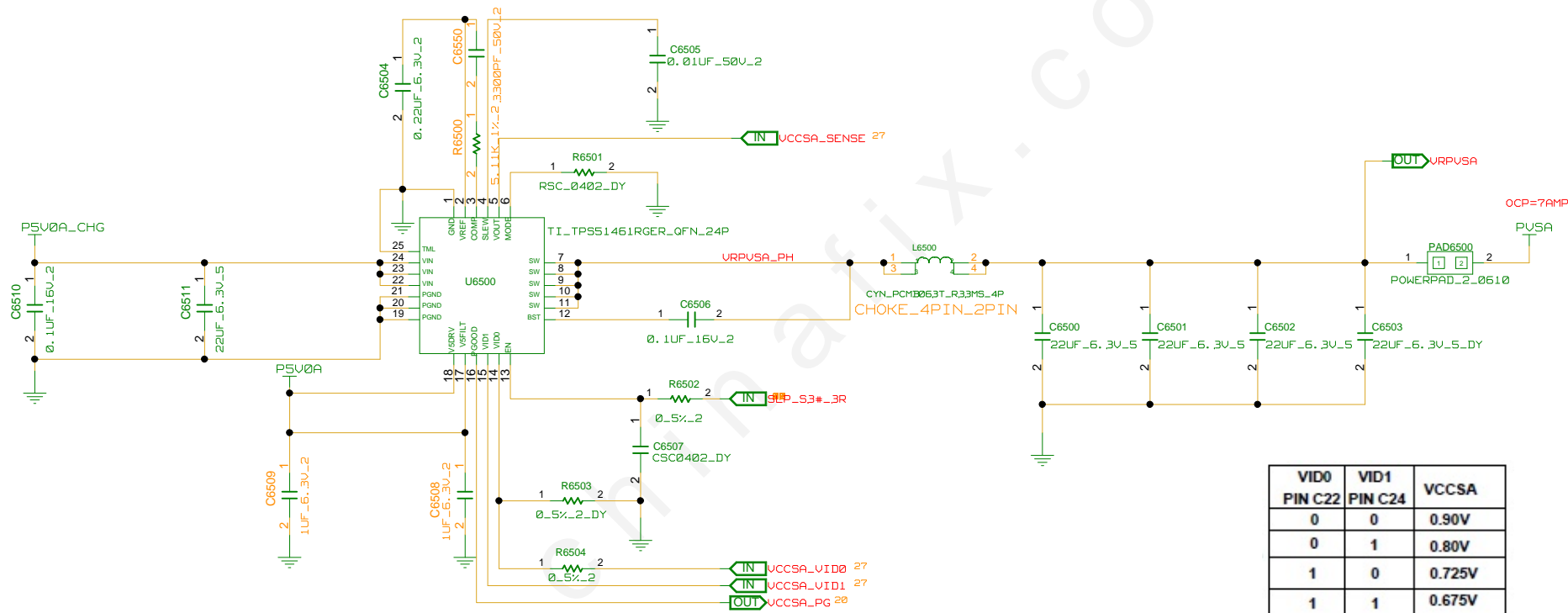
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DOC NUMBER		REV	
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SIZE	CODE	SHEET	
A3	CS	11 of 66	

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



SHEET 12 of 66



INVENTEC

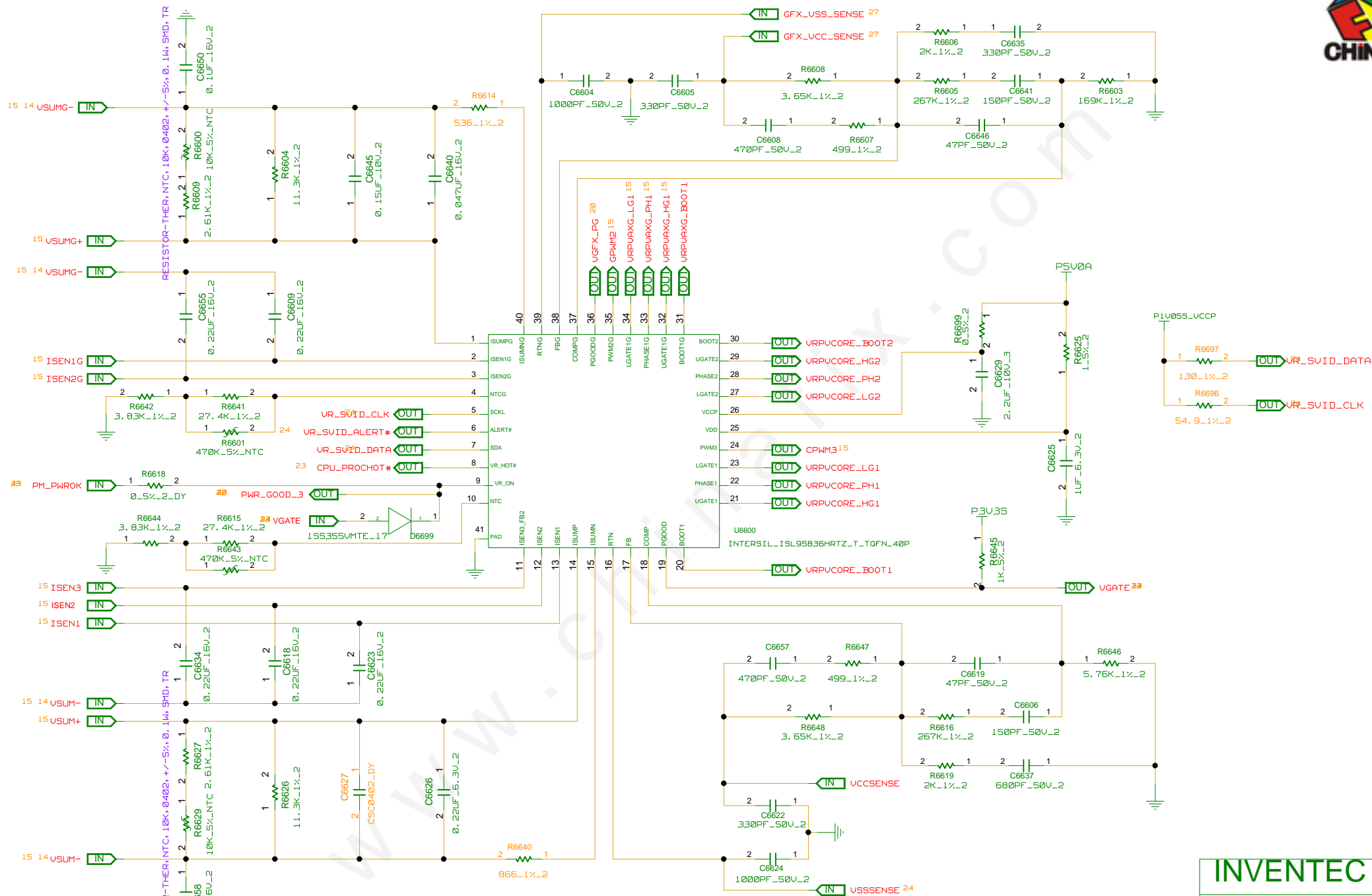
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SYSTEM POWER(PUSA)

DOC NUMBER
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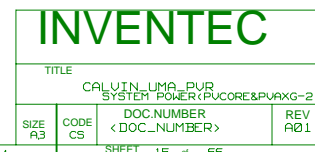
REV
A01

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

SHEET 13 of 65



INVENTEC			
TITLE			
CALVIN_UMA_PUR SYSTEM POWER(PUCORE&PUAXG-1			
SIZE A3	CODE CS	DOC_NUMBER <DOC_NUMBER>	REV A01





EMPTY

INVENTEC			
TITLE CALVIN_LUMA_PVB PVCORE_DGRU (SPARE)			
SIZE A3	CODE CS	DOC.NUMBER < DOC_NUMBER >	REV A01
SHEET 16 of 66			



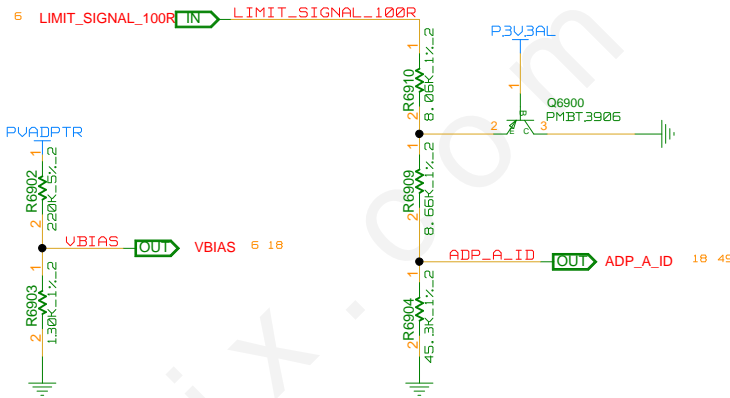
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INVENTEC

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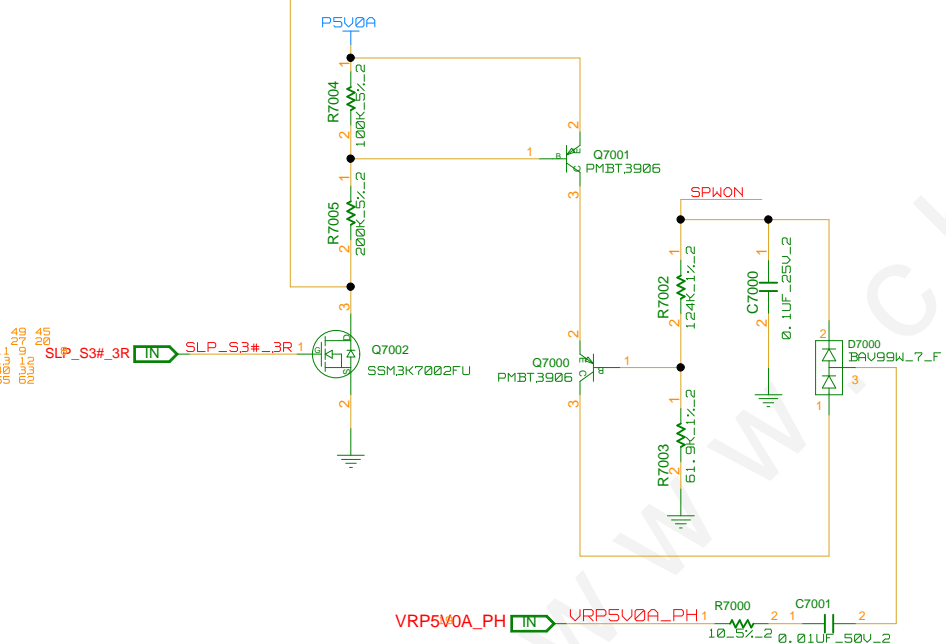
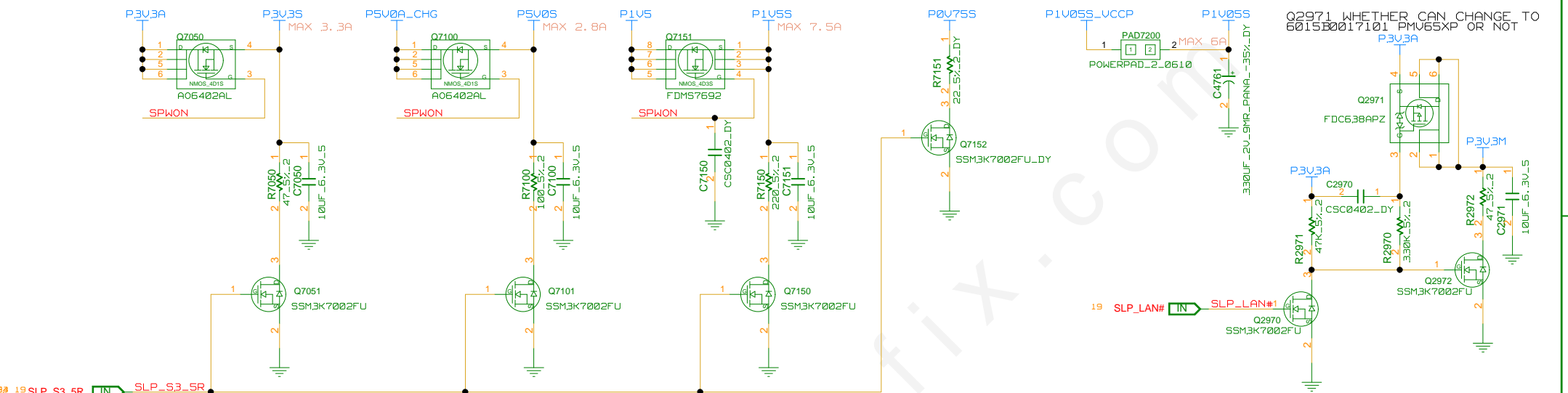


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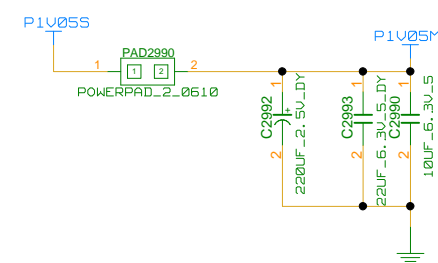


INVENTEC			
TITLE			
CALVIN_UMA_PVR			
HP_100P			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	< DOC. NUMBER >	A01
SHEET 18 of 66			

REFERENCE NUMER : 7000~7.350



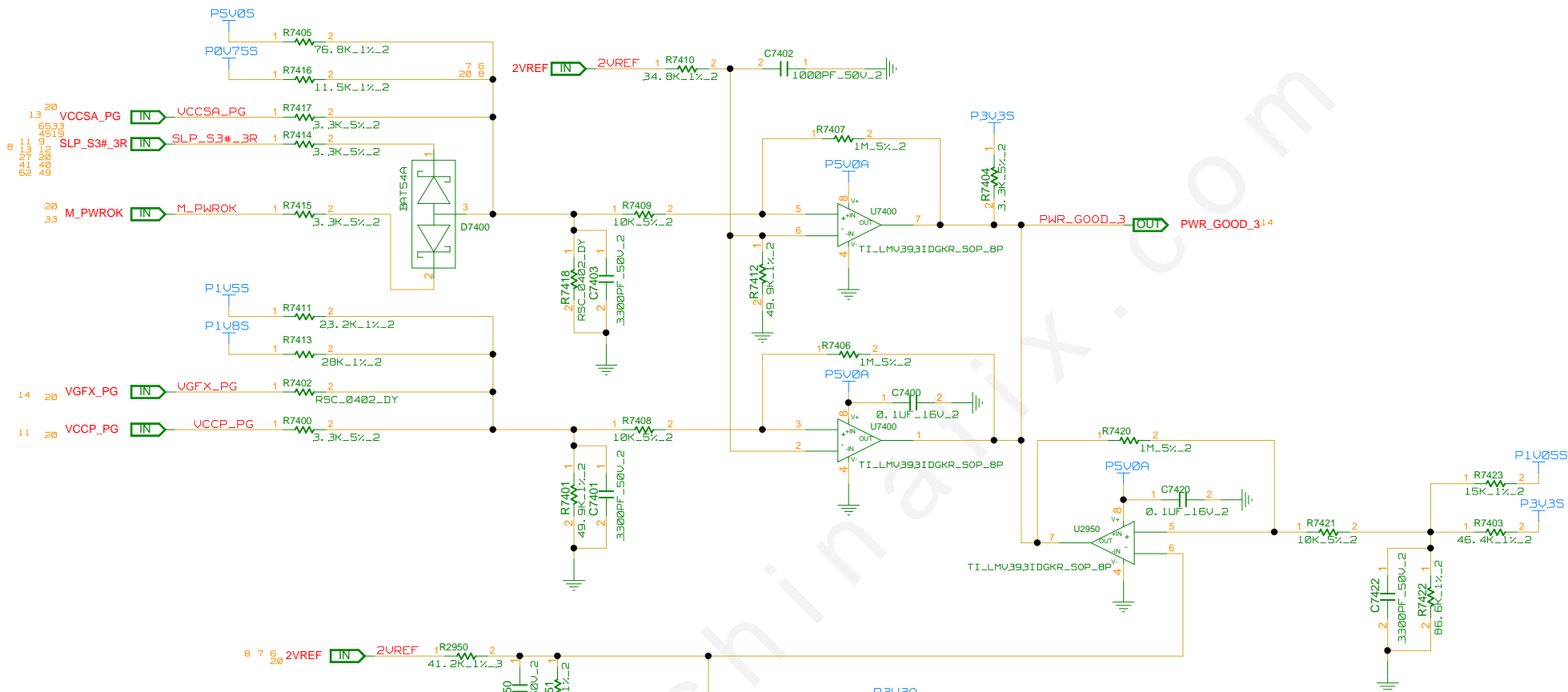
FOR IAMT
 PAD2990
 NON-AMT INSTALL
 I-AMT UN-INSTALL



REFERENCE NUMER : 2950~2999

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

REFERENCE NUMER : 7400~7450



FOR IAMT



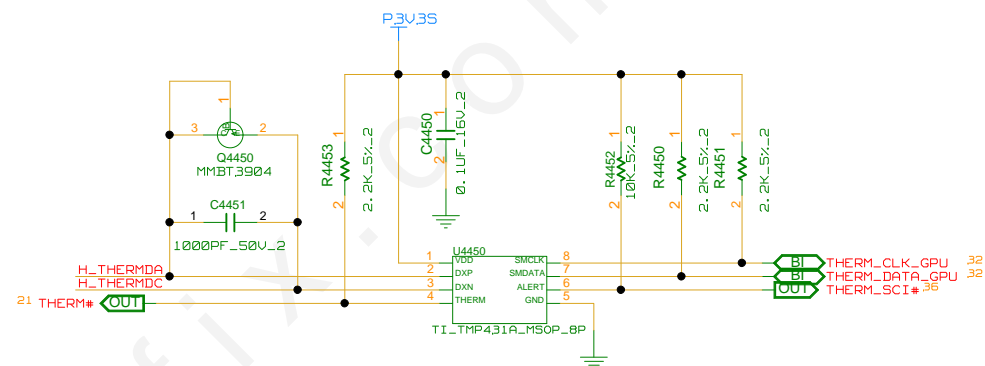
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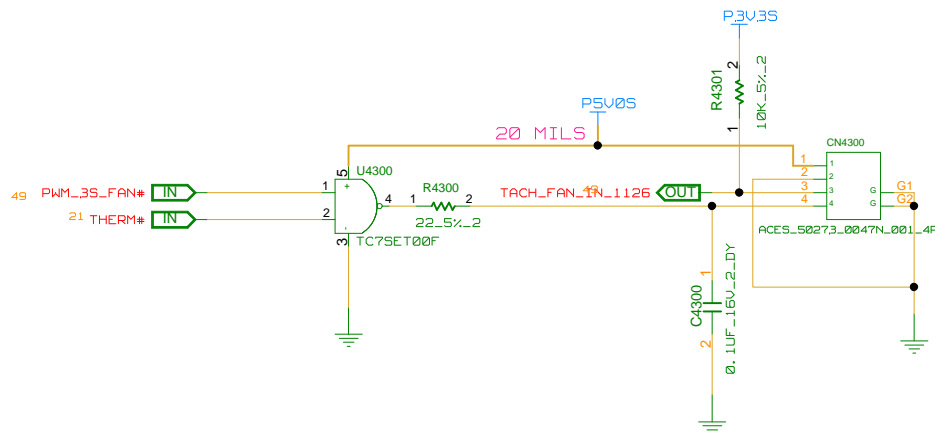
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SHEET 20 of 65			

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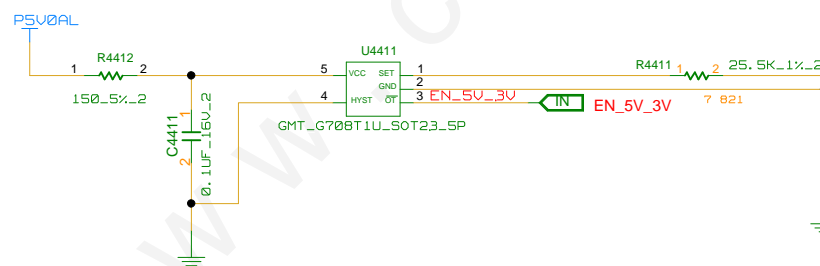
THERM SENSOR



REFERENCE NUMBER: 4400~4349



AMBIENT TEMP SENSE

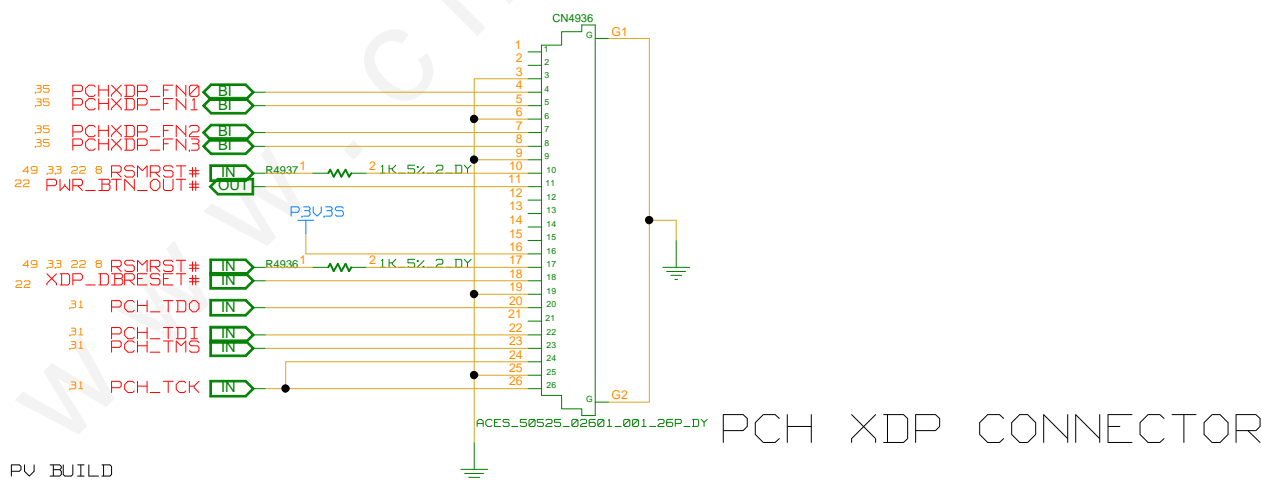
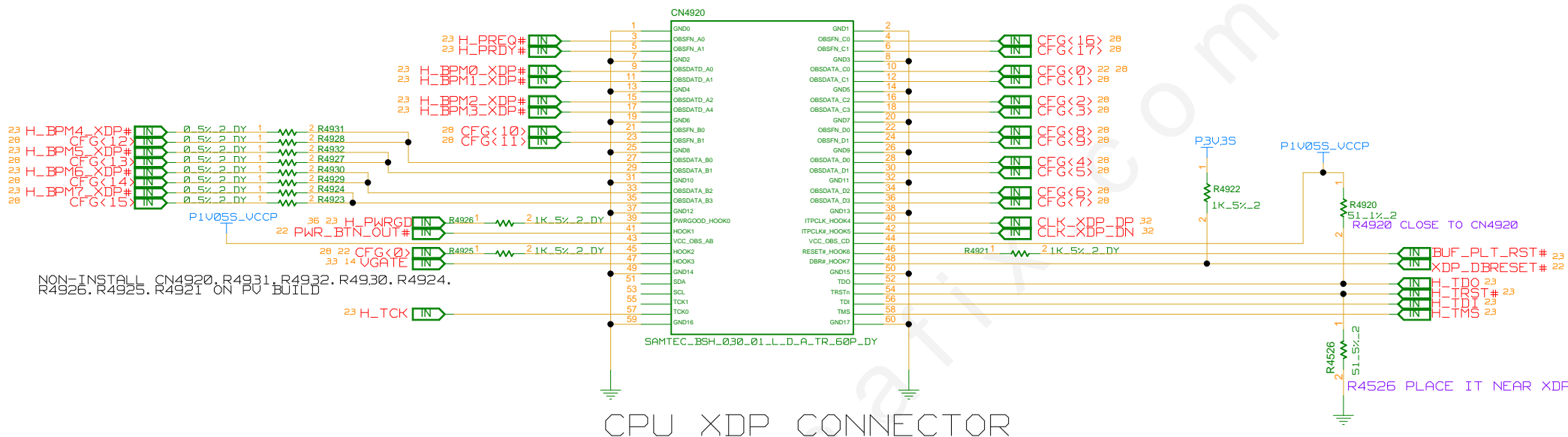


RSET (K OHM) = 0.0012T^2 - 0.9308T + 96.147
THERMAL SHUTDOWN AT 85 DEG.

REFERENCE NUMBER: 4411~4449

INVENTEC

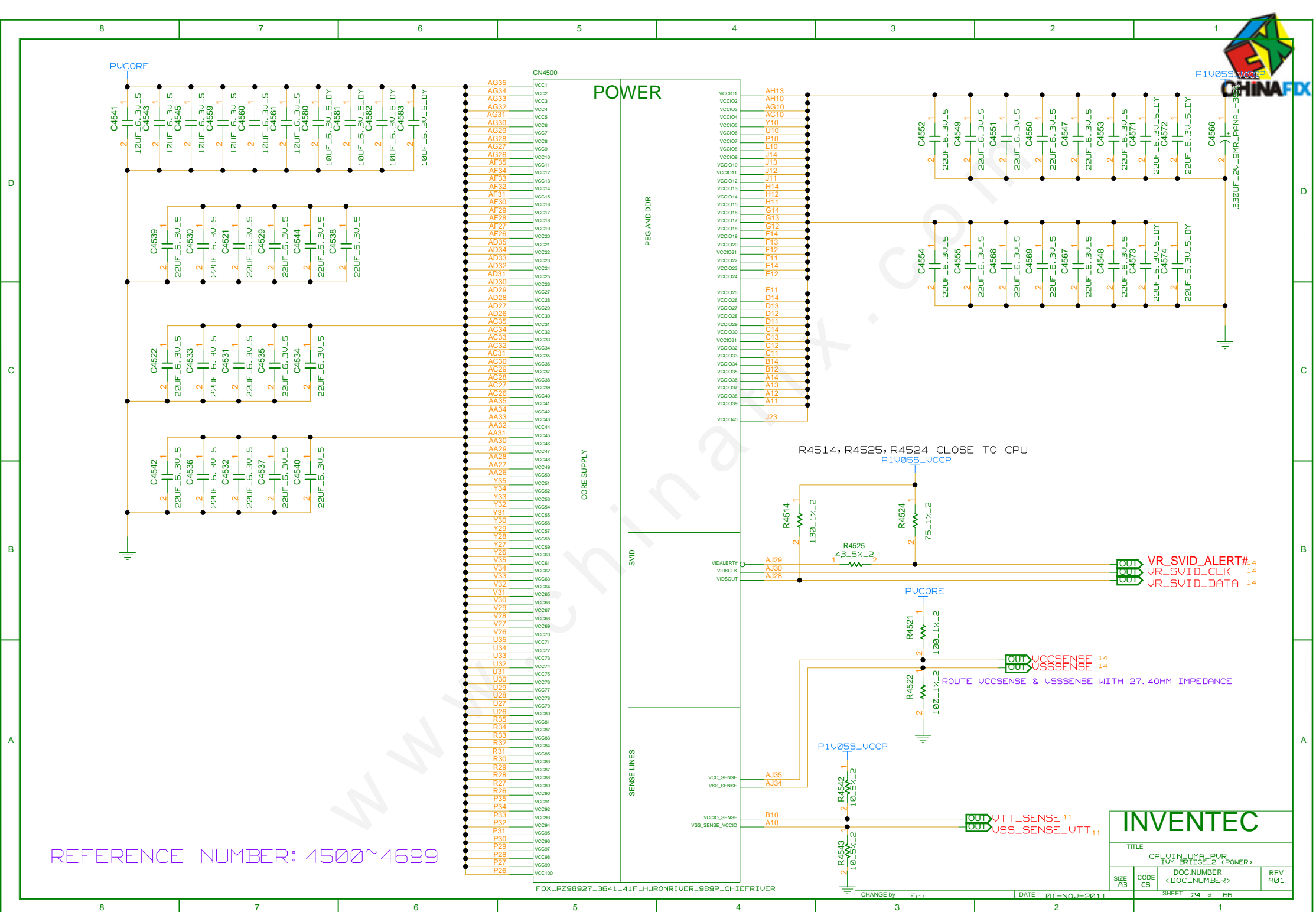
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CALVIN_LMA_PVR FAN & THERMAL			
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SHEET 21 of 66			



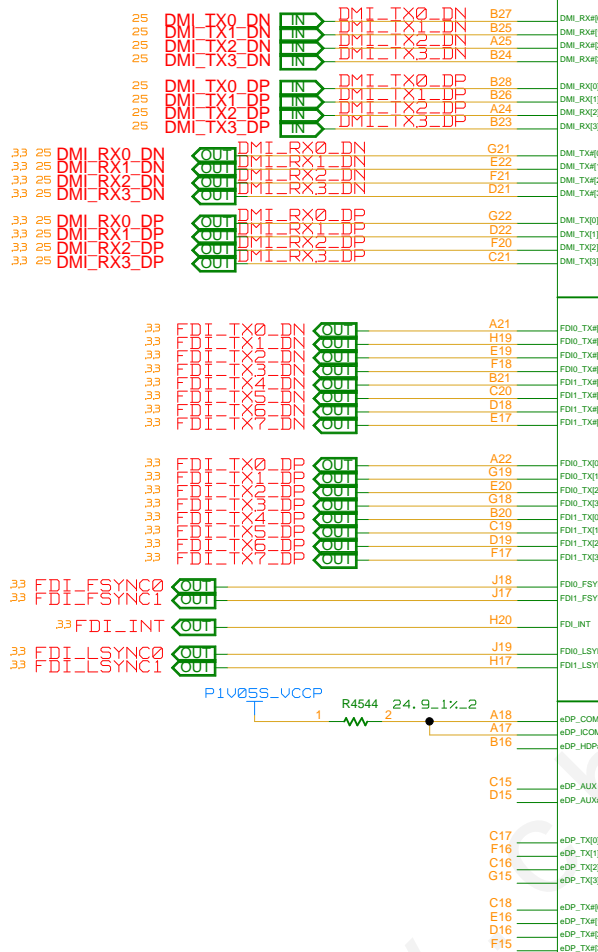
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CALVIN_LMA_PVR XDP CONN			
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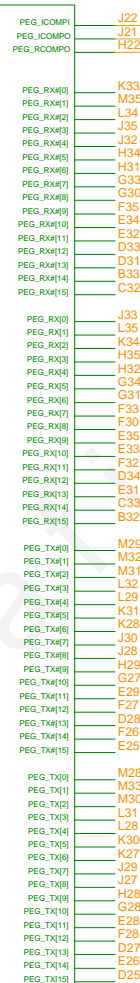




CN4500



PCI EXPRESS* - GRAPHICS



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
SHEET 25 of 66			



DDR SYSTEM MEMORY A

DDR SYSTEM MEMORY B

CN4500

CN4500

FOX_PZ98927_3641_41F_HURONRIVER_989P_CHIEFRIVER

FOX_PZ98927_3641_41F_HURONRIVER_989P_CHIEFRIVER

INVENTEC

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DOC NUMBER
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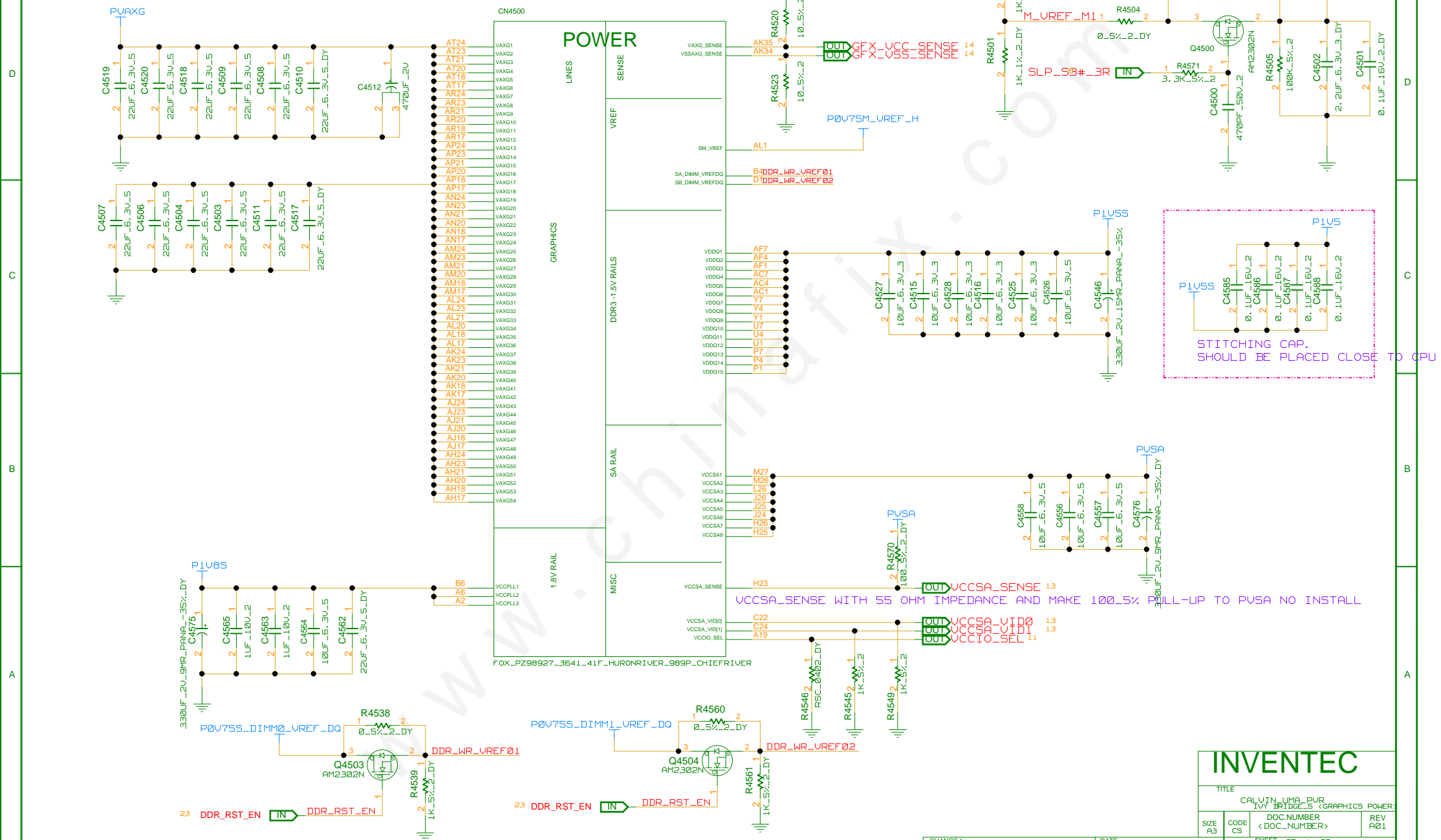
REV
A01

SHEET 26 of 66

REFERENCE NUMBER: 4500~4699

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

REFERENCE NUMBER: 4500~4699



INVENTEC

TITLE			
CALVIN_UMA_PVR IVY BRIDGE_5 <GRAPHICS POWER			
SIZE A3	CODE CS	DOC.NUMBER <DOC_NUMBER>	REV A01
SHEET 27 of 55			



D

D

C

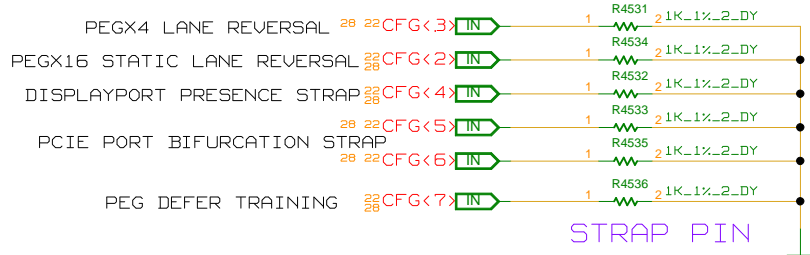
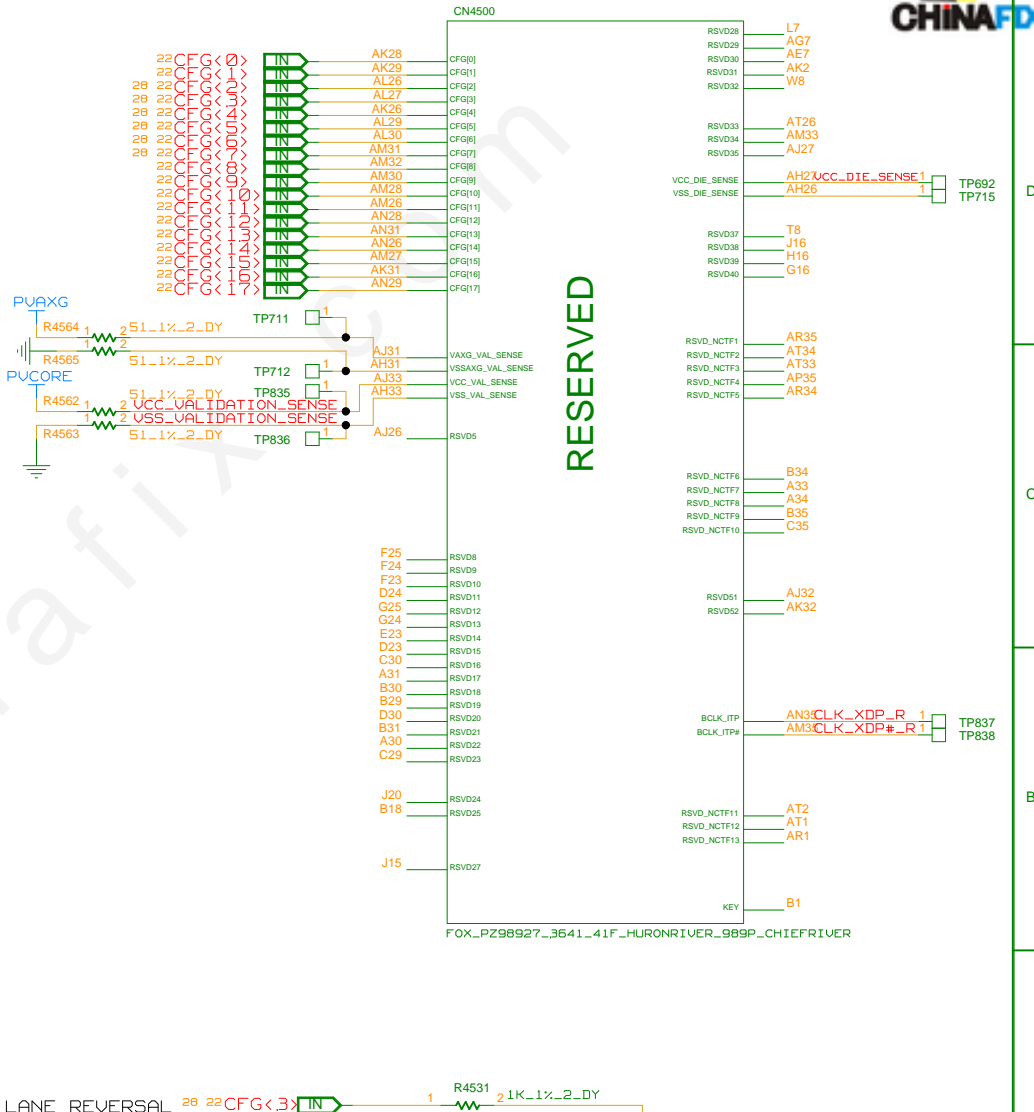
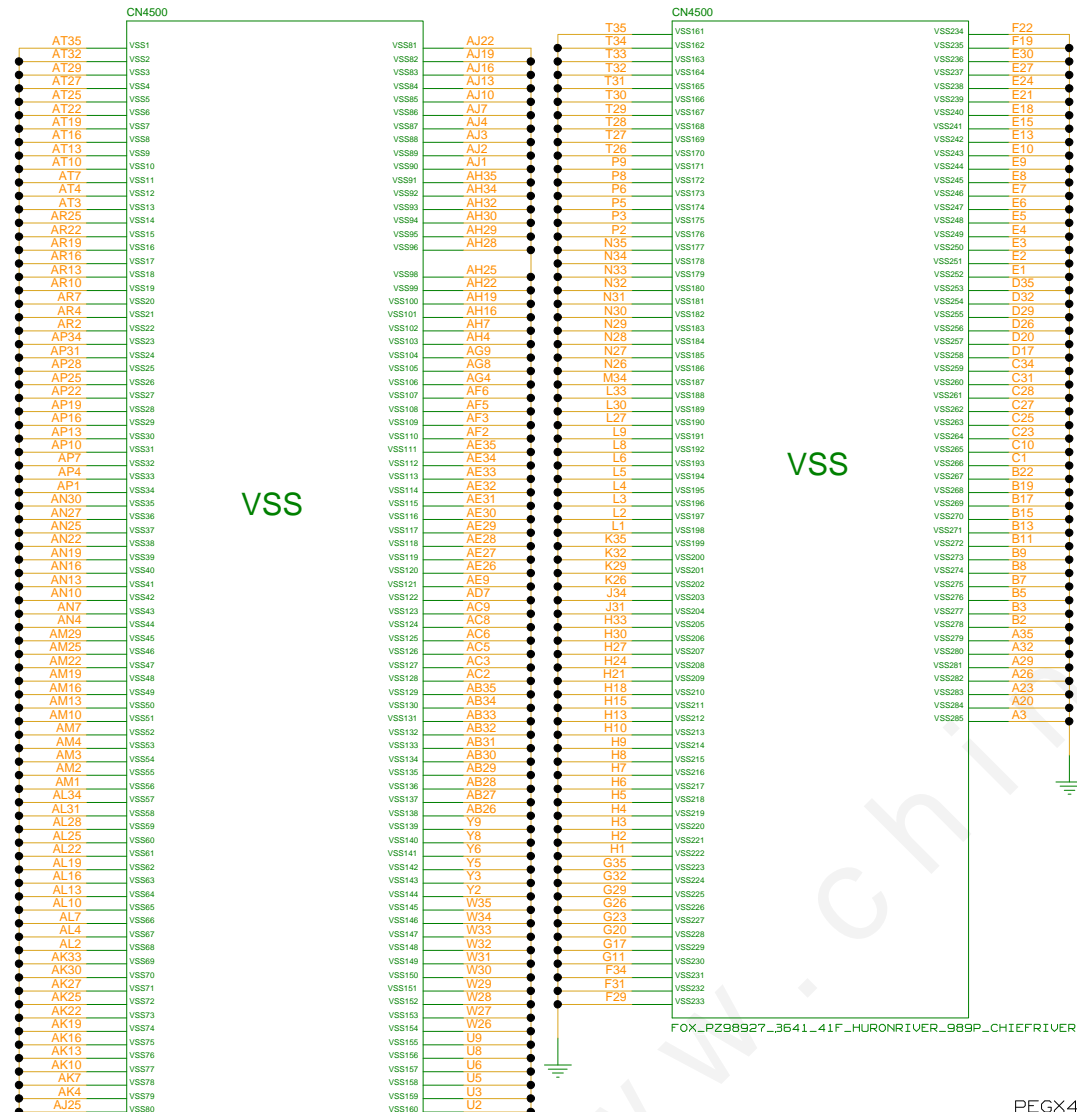
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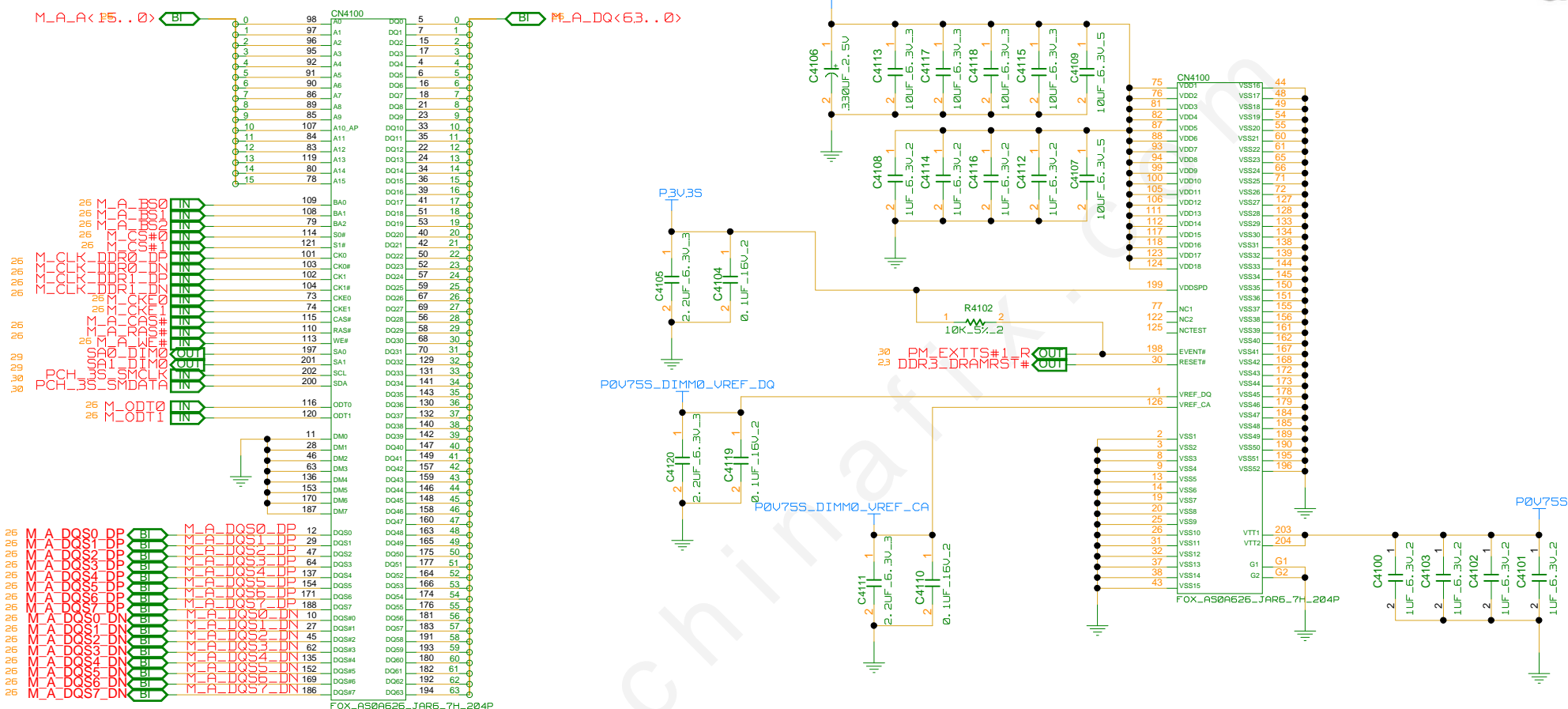
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INVENTEC			
TITLE			
CALUTN_UMA_PUP			
I/O1 BRIDGE_5 (GND, RESERVED)			
SIZE	CODE	DOC NUMBER	REV
A3	CS	<DOC_NUMBER>	A01
SHEET 28 of 65			

REFERENCE NUMBER: 4500~4699



NOTE:

IF SA0_DIM0=0 , SA1_DIM0=0
SO-DIMMA SPD ADDRESS IS 0XA0
SO-DIMMA TS ADDRESS IS 0X30

IF SA0_DIM0=1 , SA1_DIM0=0
SO-DIMMA SPD ADDRESS IS 0XA2
SO-DIMMA TS ADDRESS IS 0X32

REFERENCE NUMBER: 4100~4299

INVENTEC

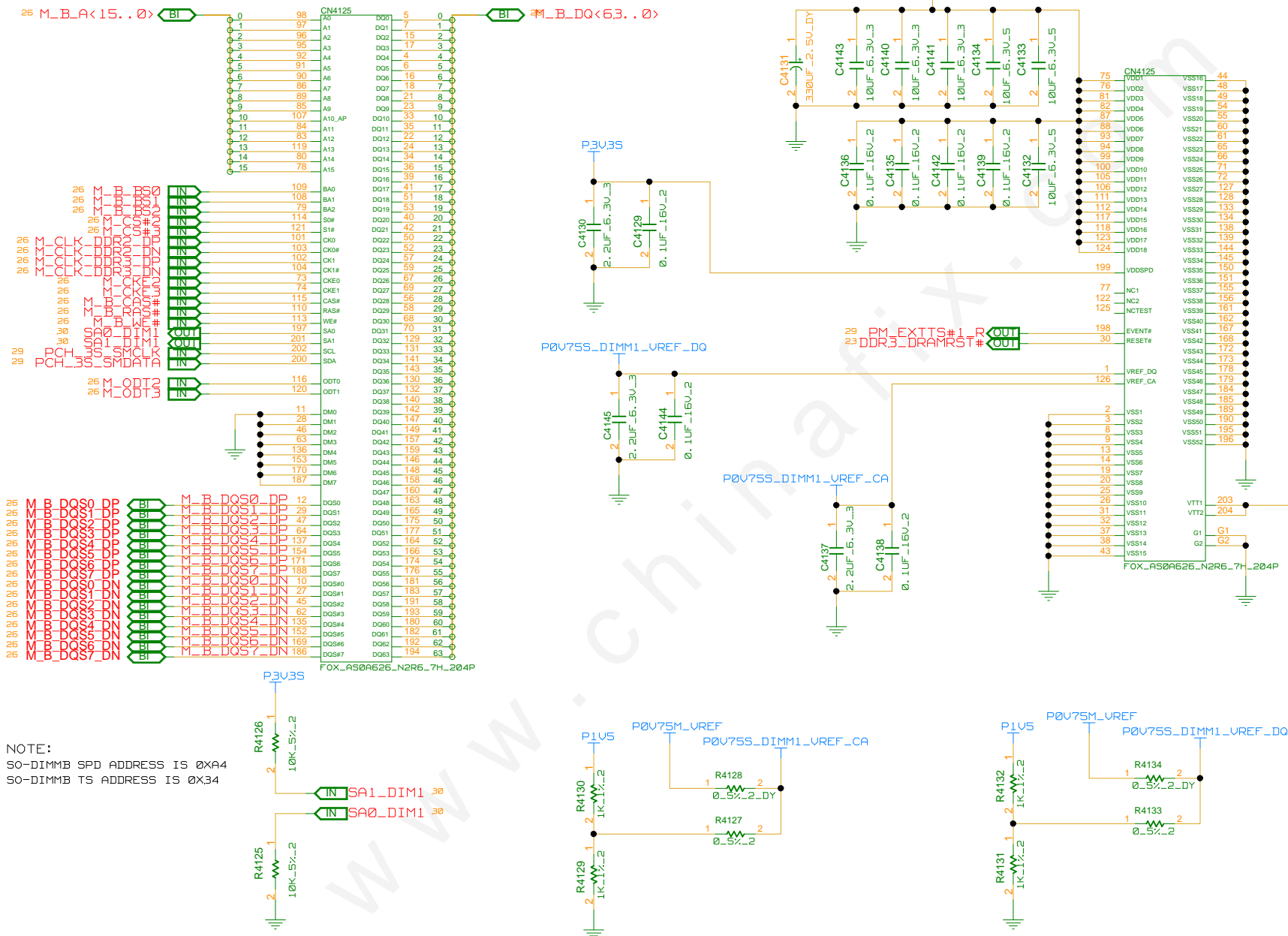
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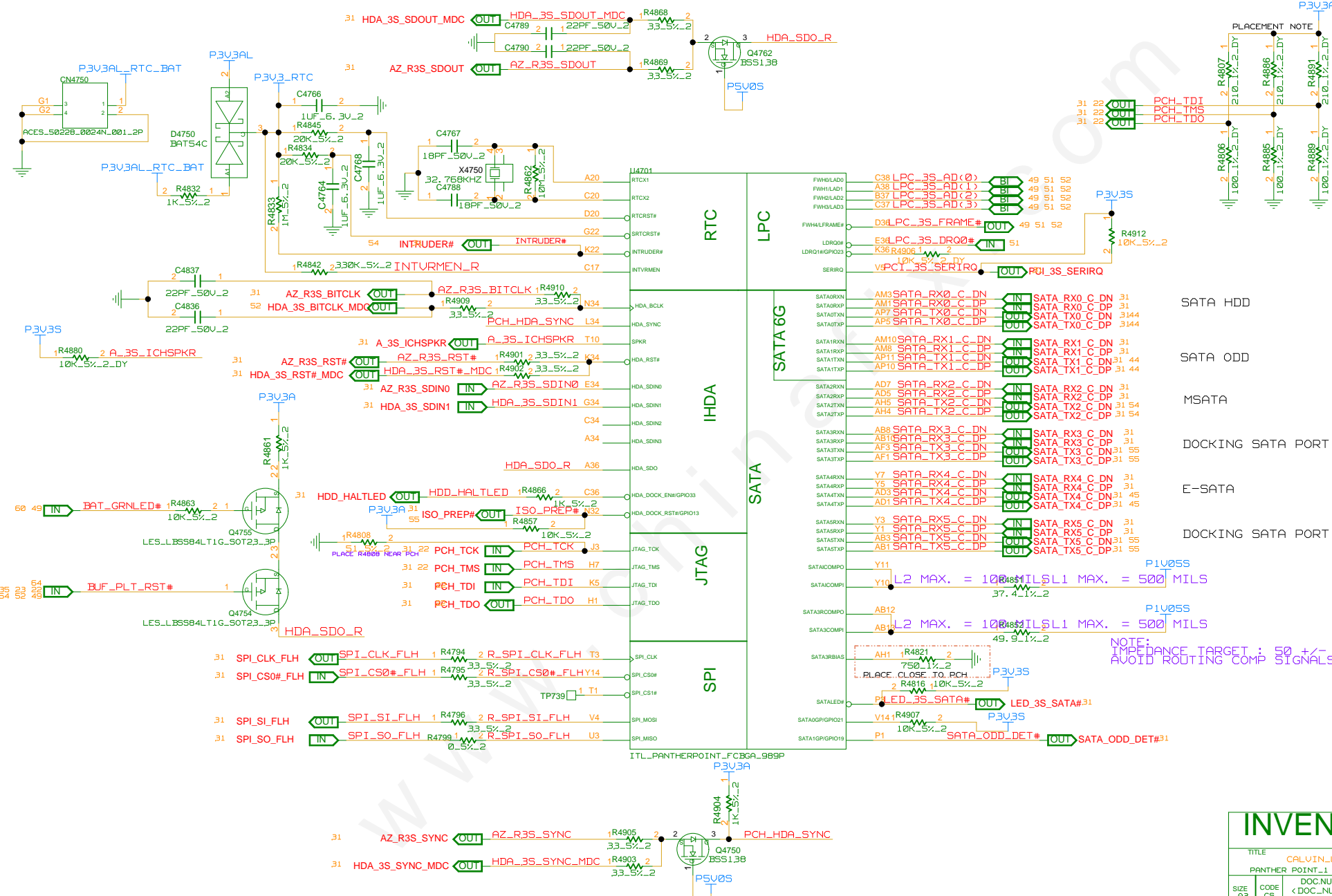
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REV A01

SIZE A3 CODE CS SHEET 29 of 65

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

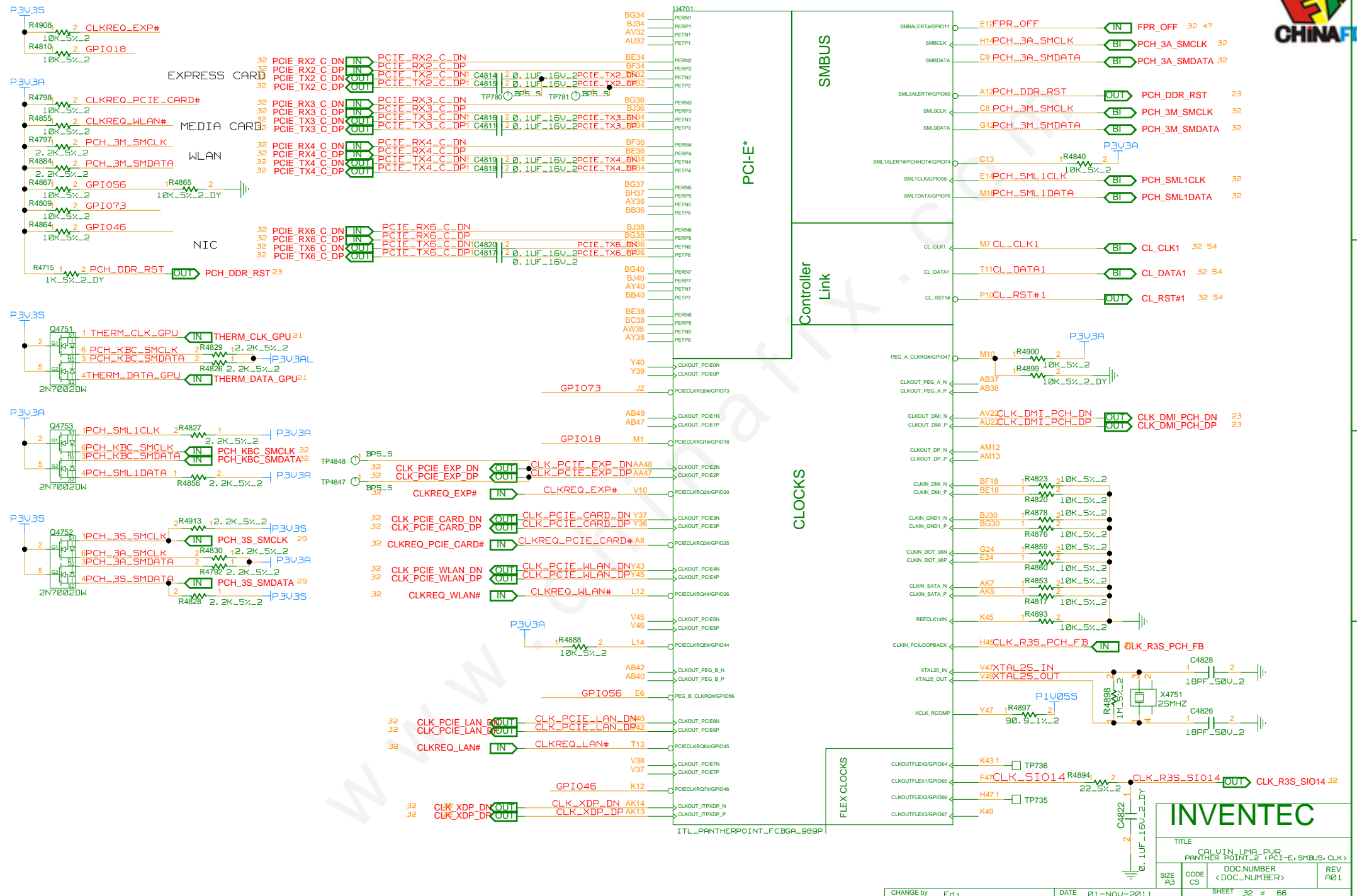




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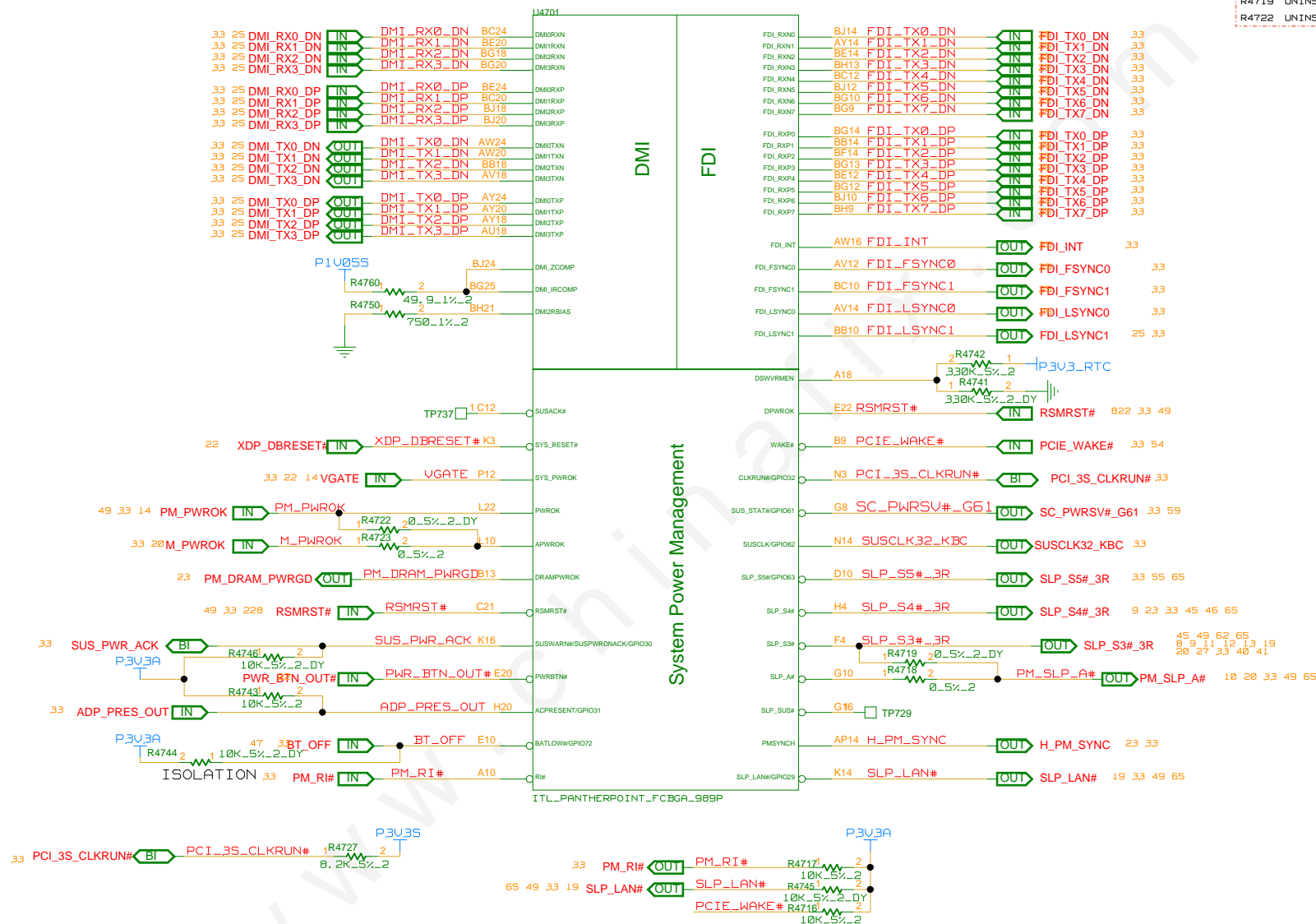


REFERENCE NUMBER : 4700~4949



1. SLP_SUS AND SUSACK# ARE NC IF DSW IS NOT SUPPORTED
2. DPWR0K SHOULD CONNECT TO RSMRST# IF DSW NOT SUPPORTED
3. PCH-DPWR0K PULL UP TO P3V3S ENABLES DSW WUPP0RT. NO INSTALL R4752 TO DISABLE DSW

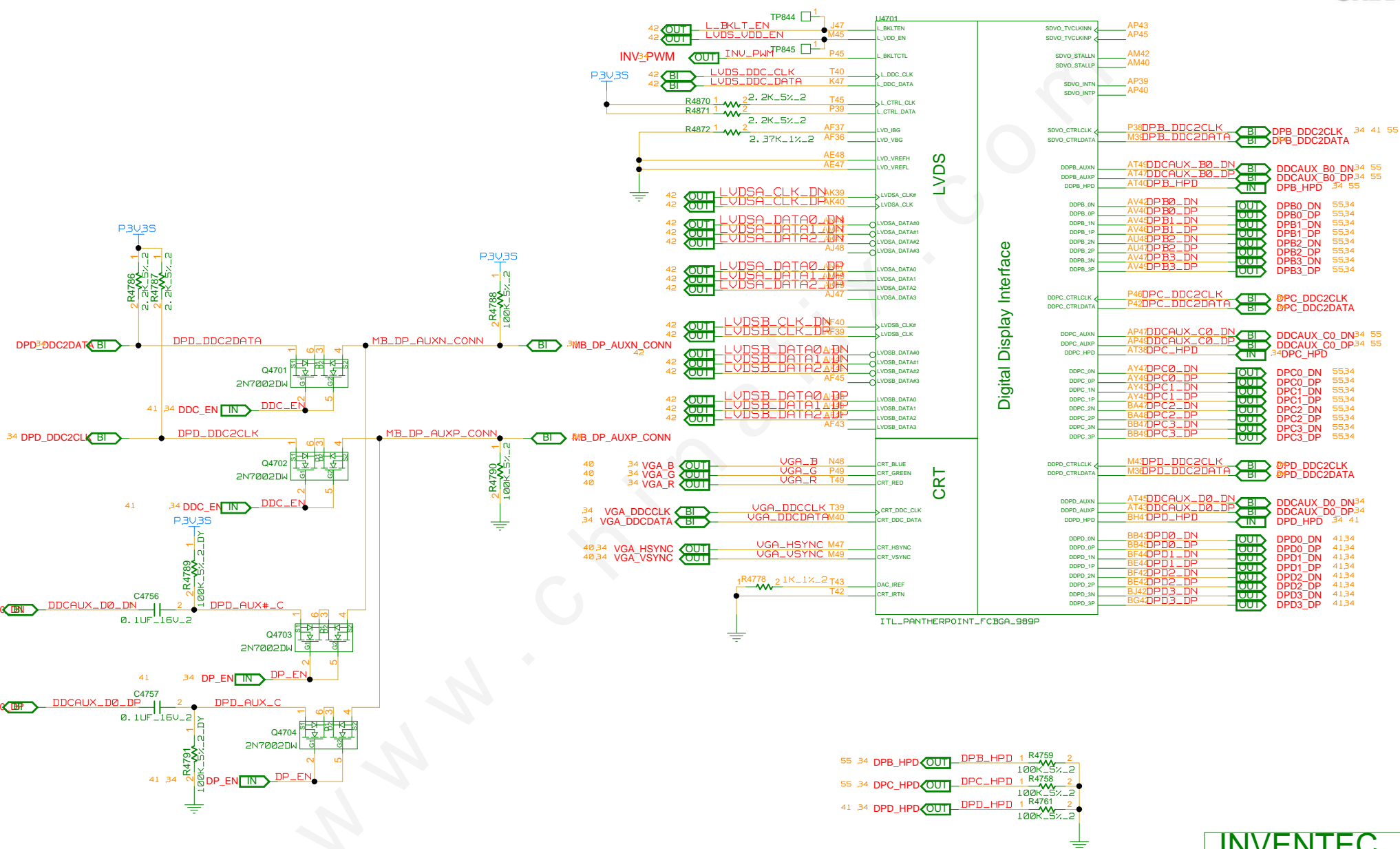
	I AMT	NON-IAMT
R4718	INSTALL	UNINSTALL
R4723	INSTALL	UNINSTALL
R4719	UNINSTALL	INSTALL
R4722	UNINSTALL	INSTALL



INVENTEC

TITLE			
CALVIN_UMA_PVR PANTHER POINT_3 <DMI,FDI,GPIO>			
SIZE A3	CODE CS	DOC.NUMBER <DOC_NUMBER>	REV A01
SHEET 33 of 66			

REFERENCE NUMBER : 4700~4949



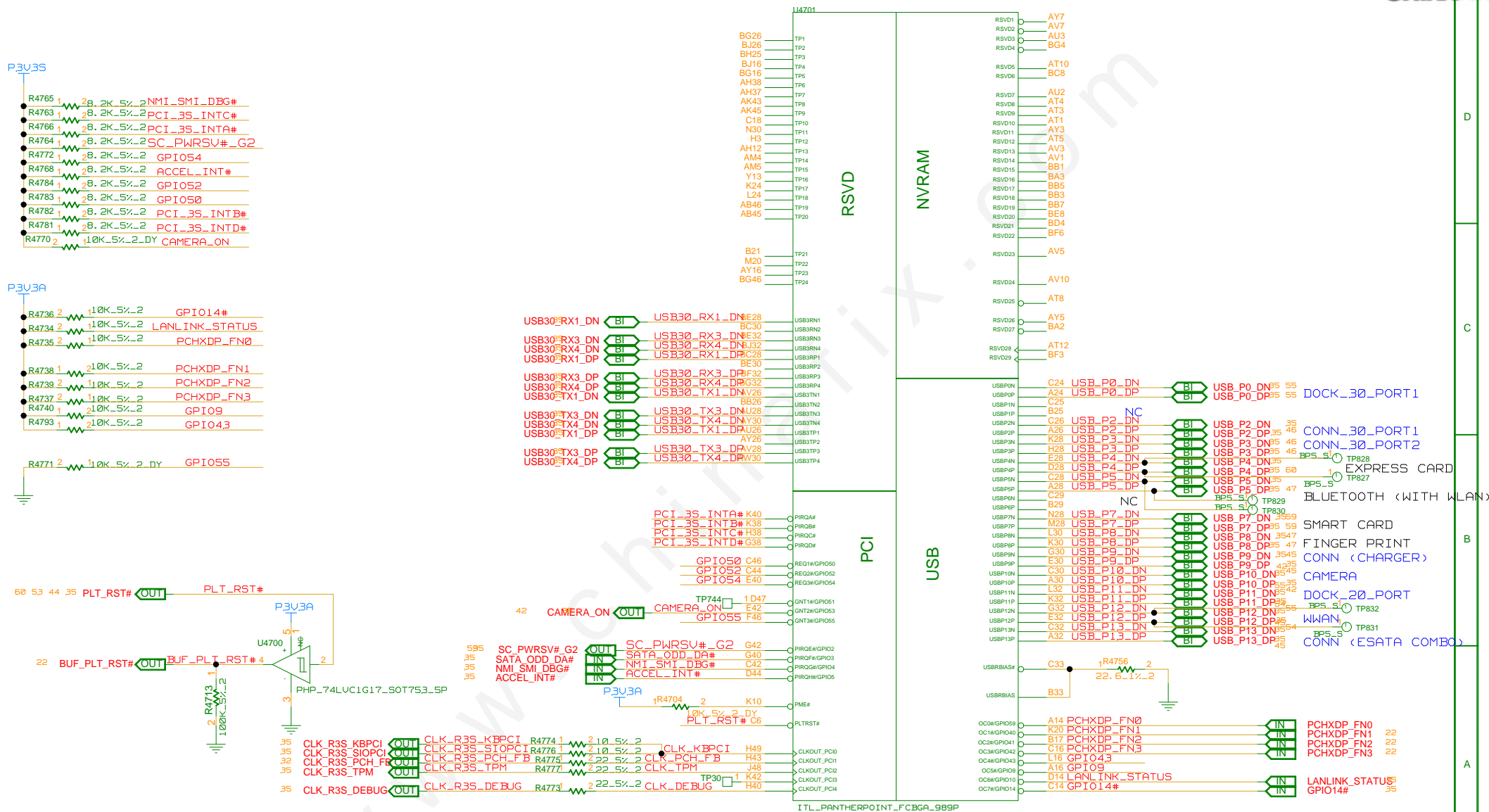
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TITLE
CALVIN_UMA_PUR
PANTHER POINT 4 (LUPS.DDT

SIZE A3	CODE CS	DOC.NUMBER <DOC_NUMBER>	RE A0
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CHANGE by	Ed1	DATE	01-NOV-2011	SHEET	34	of	66
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REFERENCE NUMBER : 4700~4949



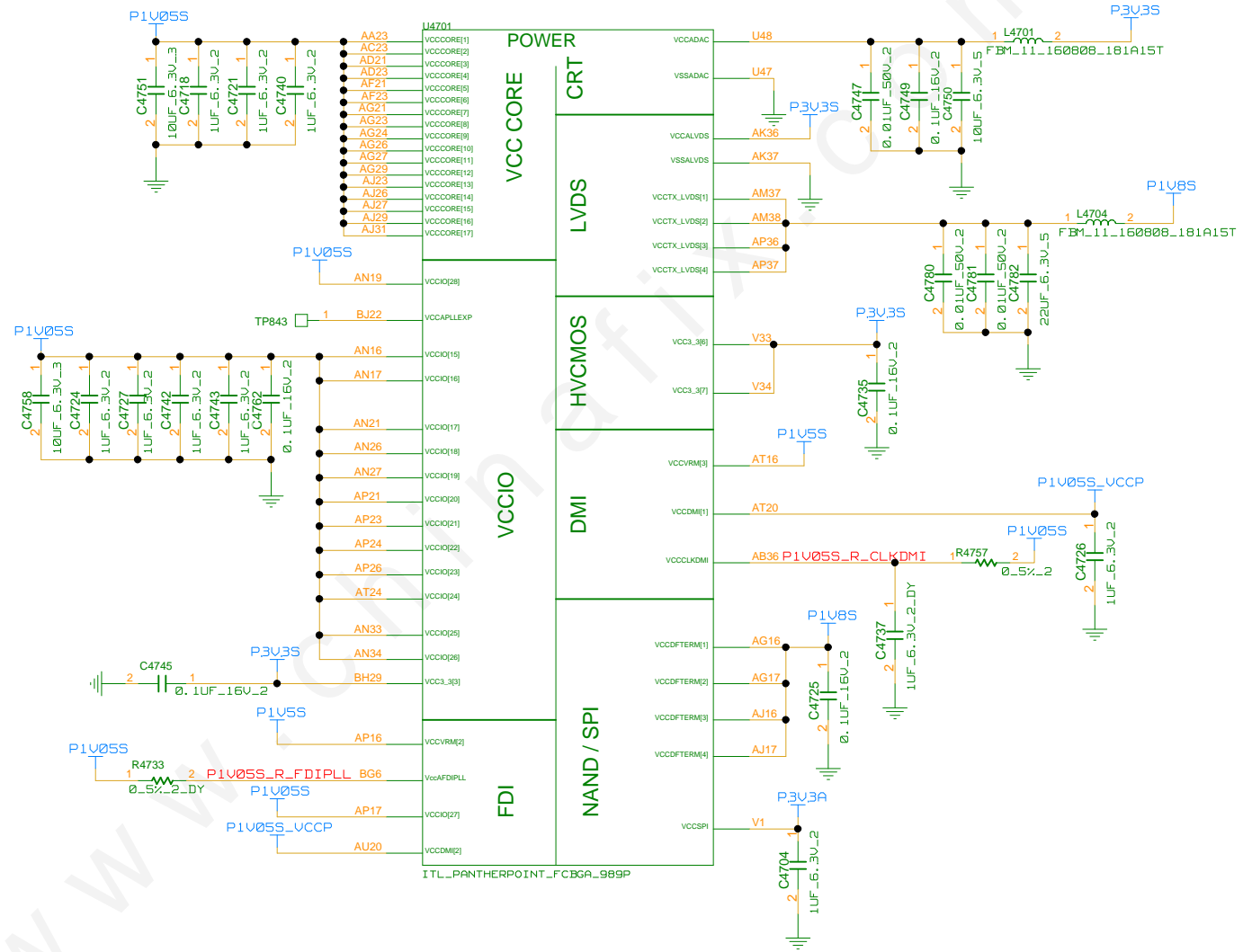


TITLE CALVIN_LUMA_PUR
BONNET POINT 5 (CRIOUSS NCET BRID)

SIZE A3	CODE CS	DOC.NUMBER <DOC_NUMBER>	REV A01
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H.5	CS	
		SHEET 36 of 66

REFERENCE NUMER : 4700~4949



INVENTEC

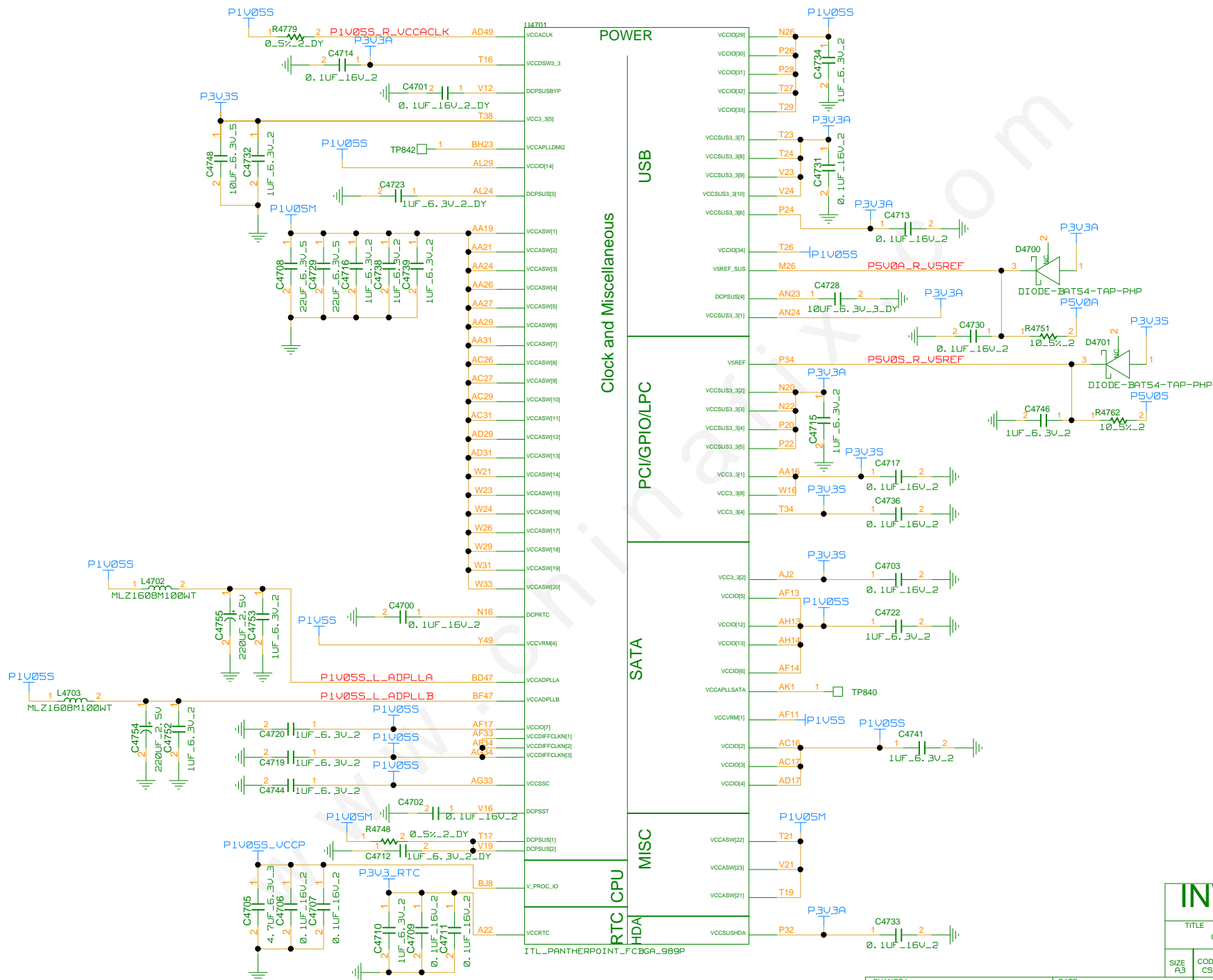
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CALVIN_LMA_PVB
PANTHER POINT_7 (POWER)

SIZE A3 CODE CS DOC NUMBER <DOC_NUMBER> REV A01

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

SHEET 37 of 65

REFERENCE NUMER : 4700~4949

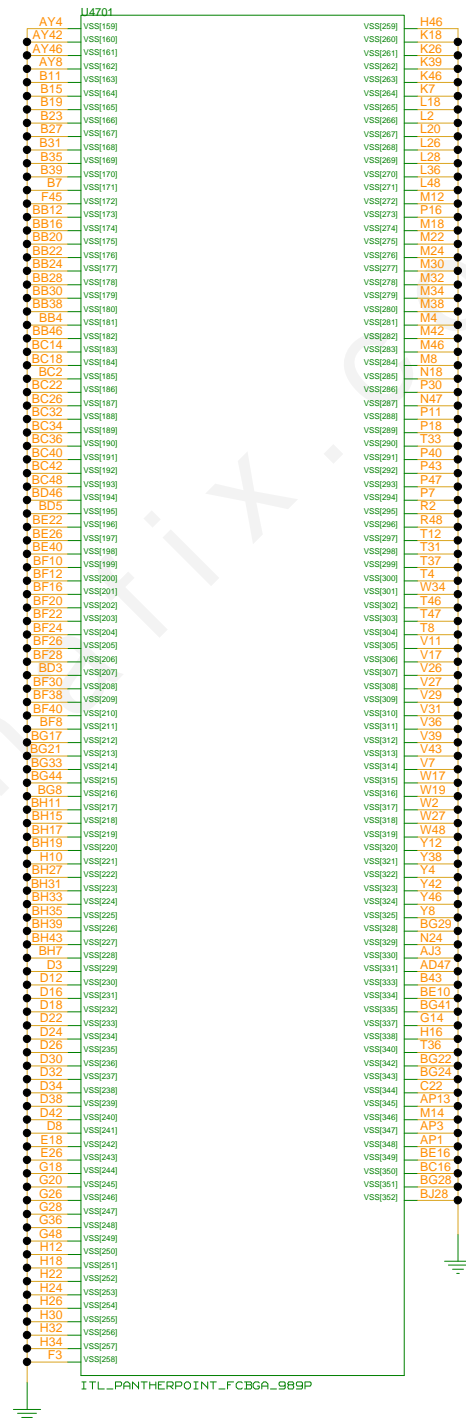
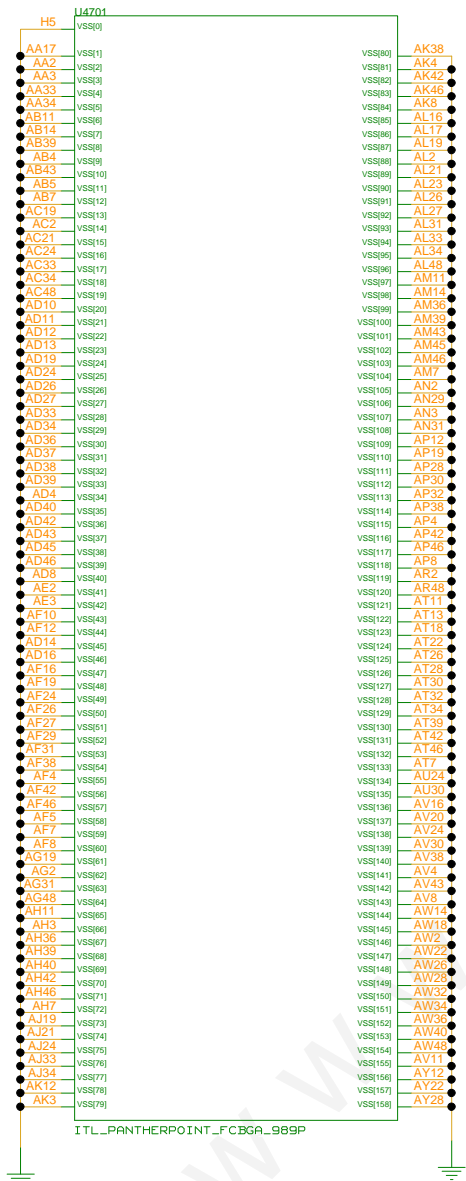


INVENTEC

TITLE			
CALVIN_UMA_PUR PANTHER POINT_8 (POWER)			
SIZE A3	CODE CS	DOC.NUMBER <DOC_NUMBER>	REV A01
SHEET 38 of 66			



REFERENCE NUMER : 4700~4949



INVENTEC

TITLE
CALVIN_LMA_PUB
PANTHER POINT_9 (GND)

SIZE	CODE	DOC NUMBER	REV
A3	CS	< DOC_NUMBER >	A01
SHEET 39 of 66			

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

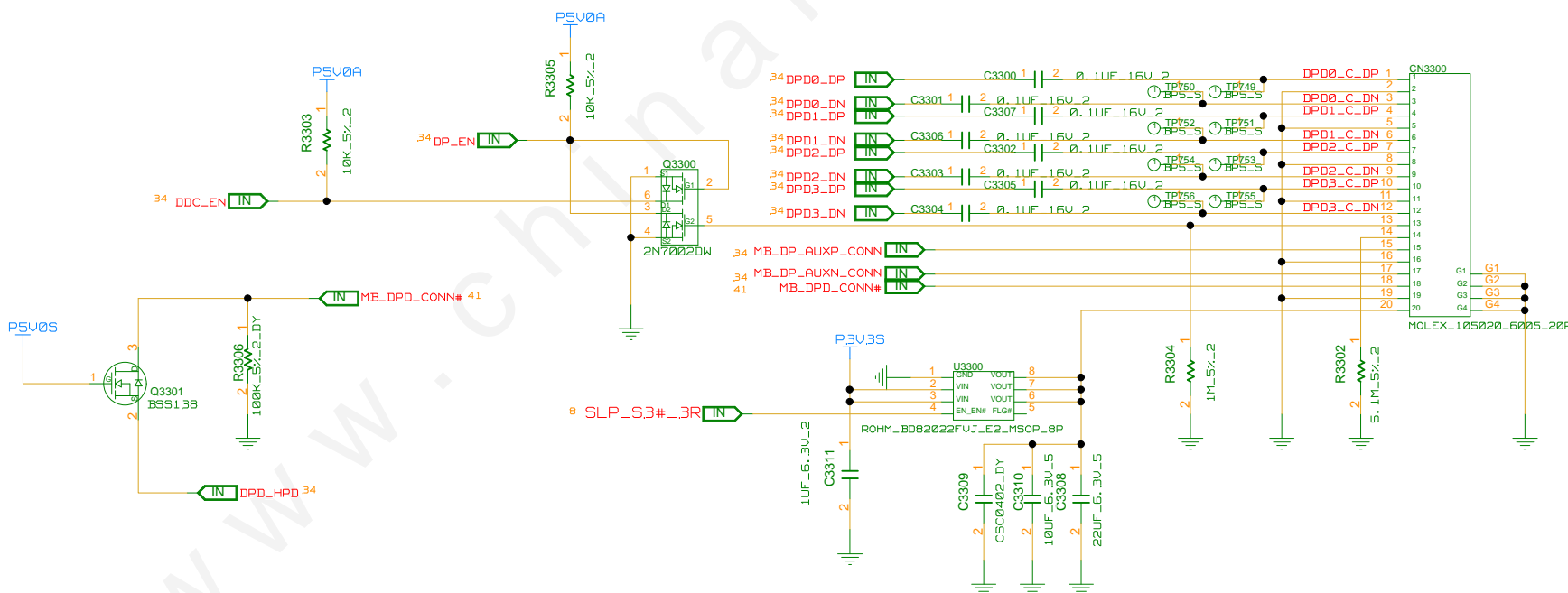
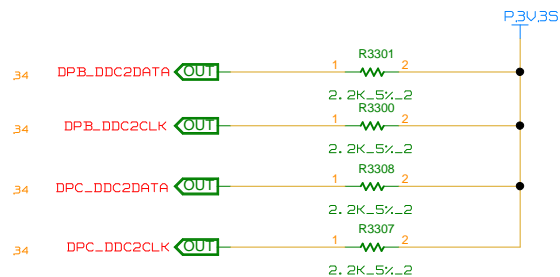


THREE VIDEO TERMINATION RESISTORS
TO THE CRT CANNOT BE POSSIBLE

SIGNAL TRACE, 50 OHM IMPEDANCE



CHANGE by	Ed.	DATE	01-NOV-2011	SHEET	40 of 66
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REFERENCE NUMBER: 3.300~3.399

INVENTEC

TITLE			
CALVIN_UMA_PUB_DISPLAY_PORT_CNTR			
DOC. NUMBER		REV	
< DOC. NUMBER >		A01	
SIZE	CODE	SHEET	
A3	CS	41 of 65	



CHANGE by	Ed1	DATE	01-NOV-2011	SHEET	42 of 66
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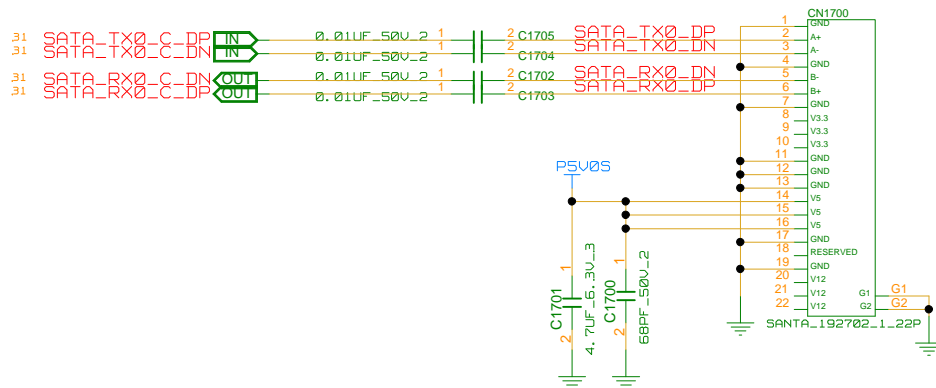


EMPTY

REFERENCE NUMBER: 3400~3499

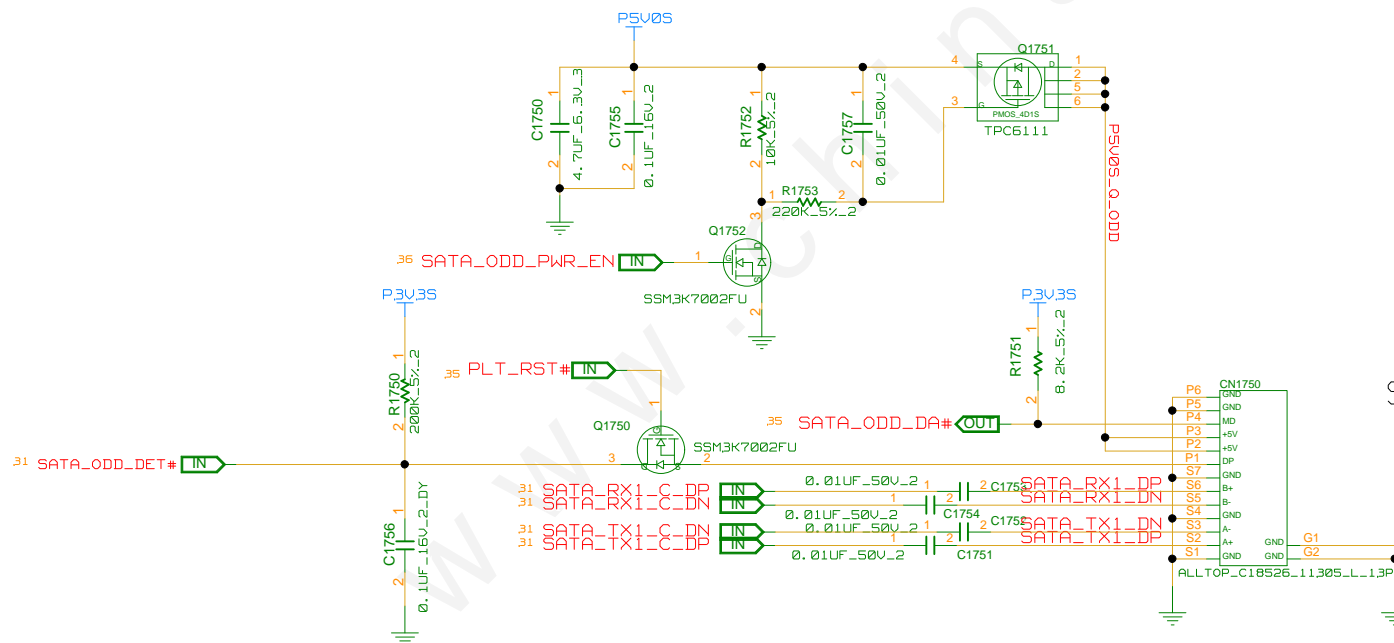
INVENTEC			
TITLE CALVIN,UMA_PUB EDP TO LVDS (SPARE)			
SIZE A3	CODE CS	DOC.NUMBER <DOC_NUMBER>	REV A01
SHEET 43 of 66			

CHANGE by Fdu DATE 01-NOV-2011



SATA HDD

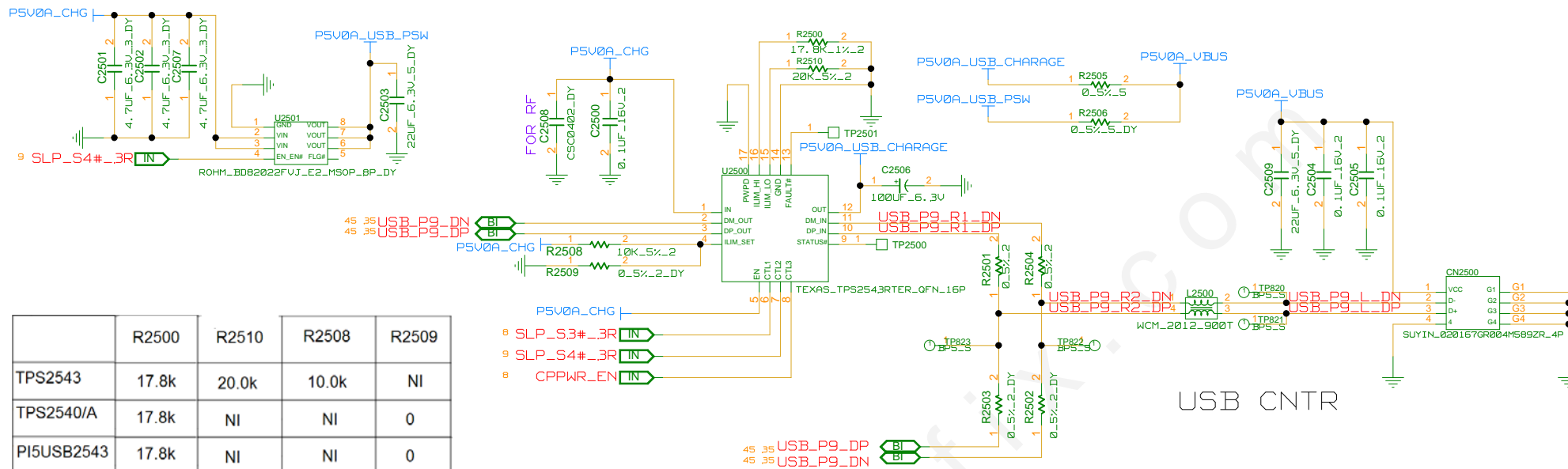
REFERENCE NUMBER: 1700~1749



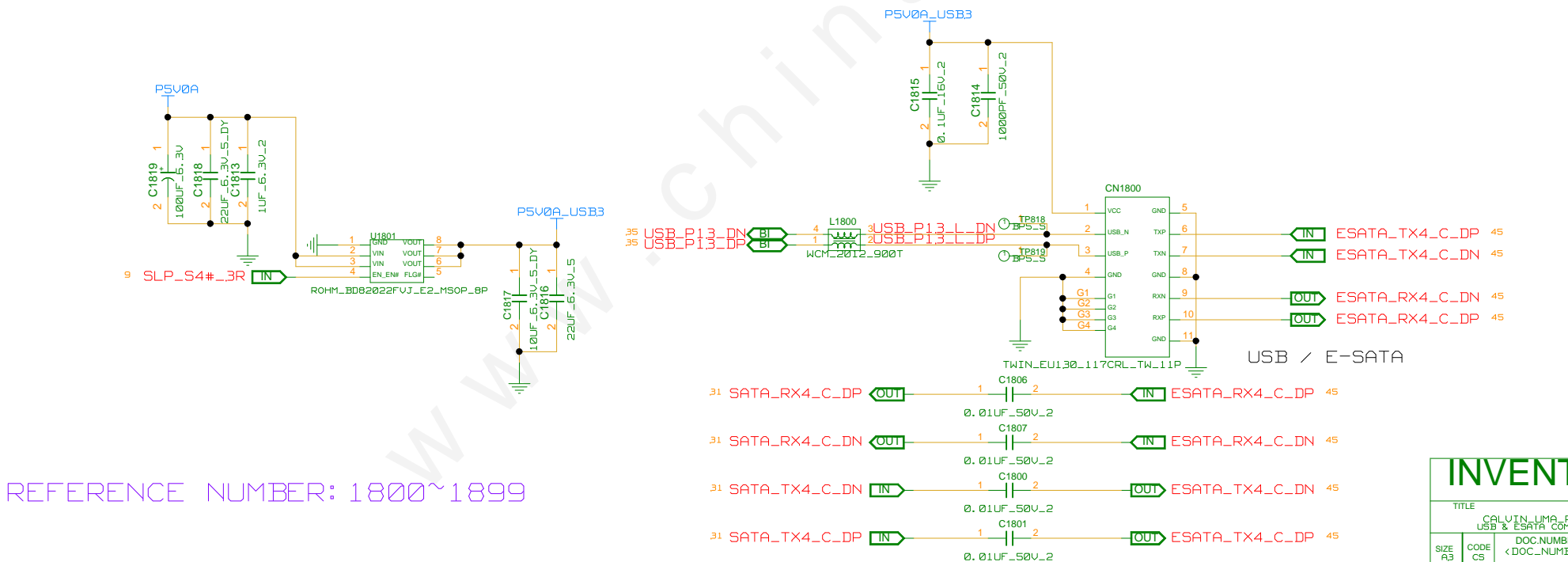
SATA ODD

REFERENCE NUMBER: 1750~1799

INVENTEC			
TITLE CALVIN_LUMA_PVR SATA HDD S_ODD CNTR			
SIZE A3	CODE CS	DOC NUMBER <DOC_NUMBER>	REV A01
SHEET 44 of 65			

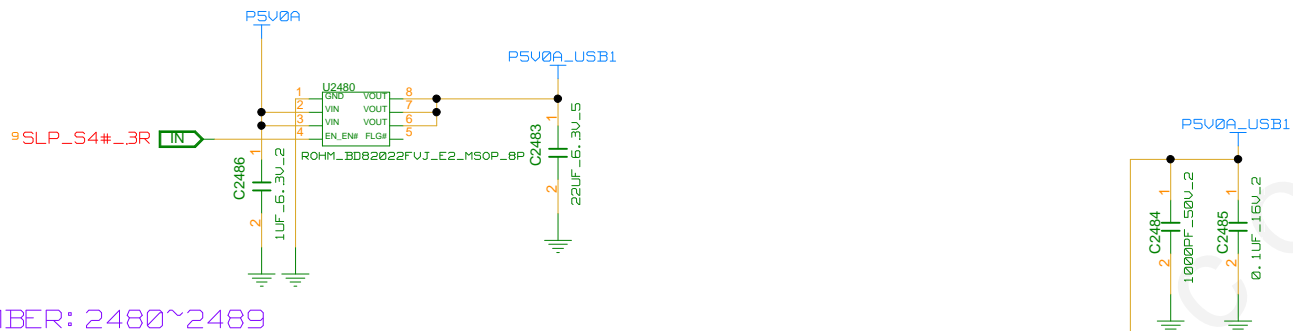


REFERENCE NUMBER: 2500~2599

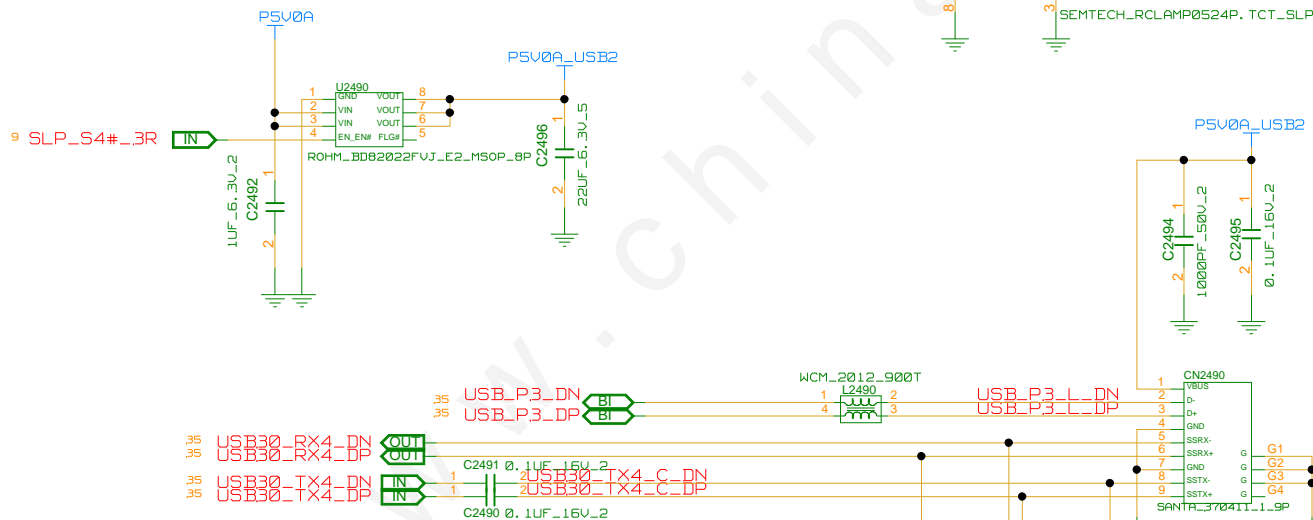
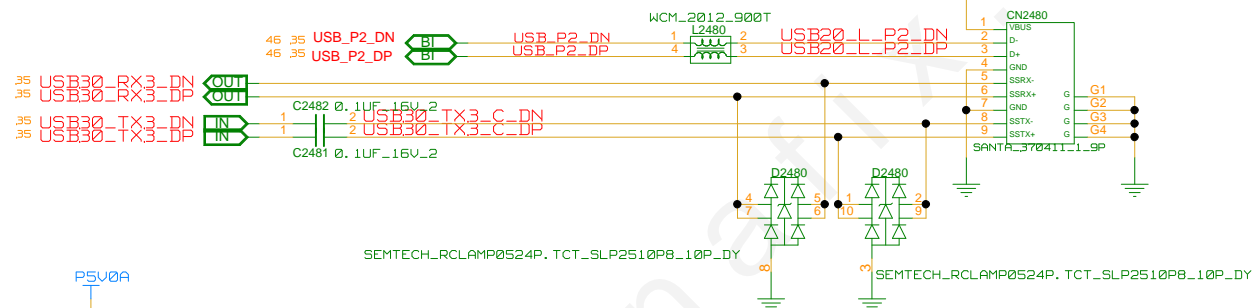


REFERENCE NUMBER: 1800~1899

INVENTEC			
TITLE			
CALVIN_LUMA_PVR			
USB & ESATA COMBO / USB CHARGER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	<DOC. NUMBER>	A01
SHEET 45 of 65			



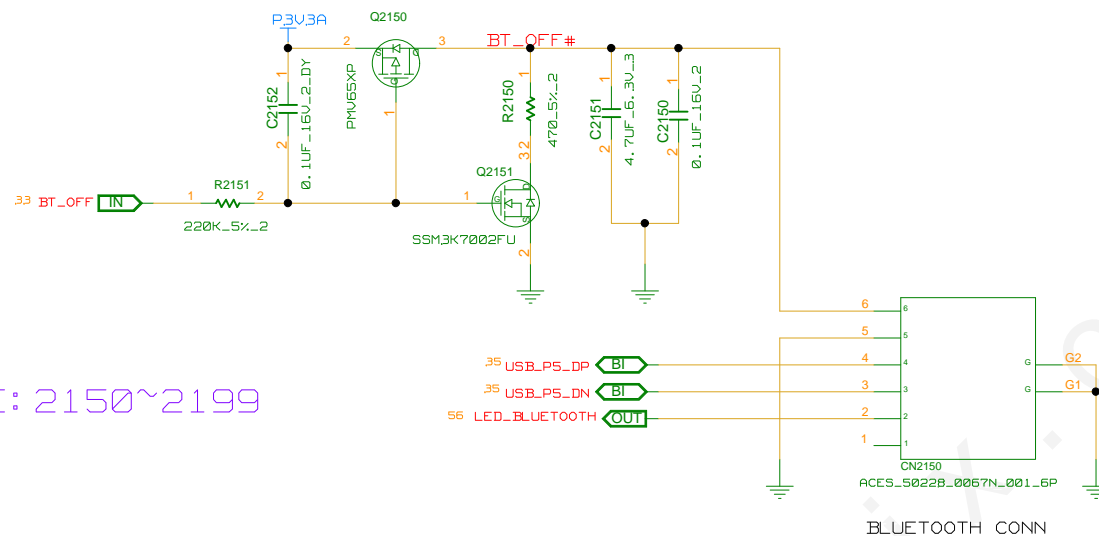
REFERENCE NUMBER: 2480~2489



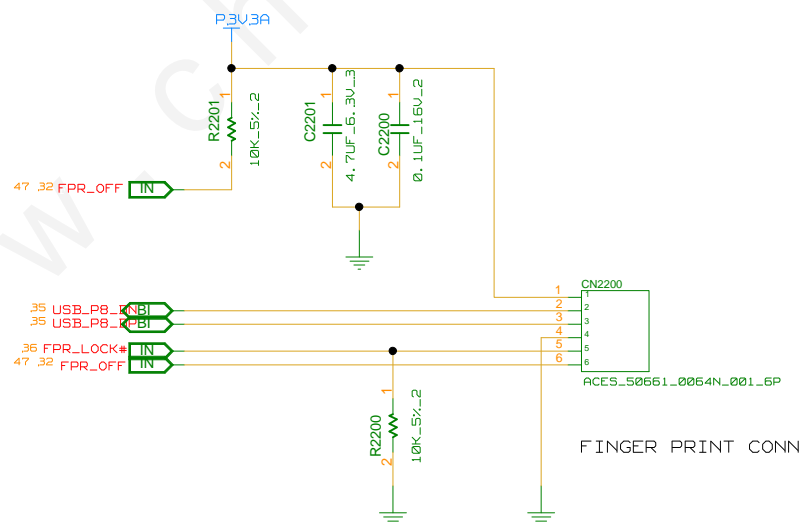
REFERENCE NUMBER: 2490~2499

INVENTEC

TITLE			
CALUTN_LUMA_PVR USB CONN			
SIZE	CODE	DOC NUMBER	REV
A3	CS	<DOC_NUMBER>	A01

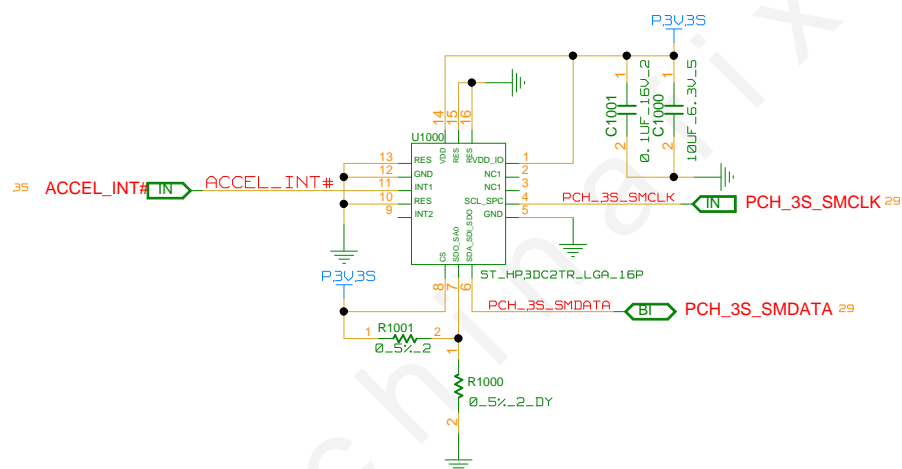


REFERENCE: 2200~2249



TITLE			
CALVIN_UMA_PUR BLUE TOOTH & FINGER PRINTER CNTR			
SIZE A3	CODE CS	DOC.NUMBER <DOC_NUMBER>	REV A01
SHEET 47 of 66			

REFERENCE NUMBER : 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



TITLE
CALUTN LIMA RUP

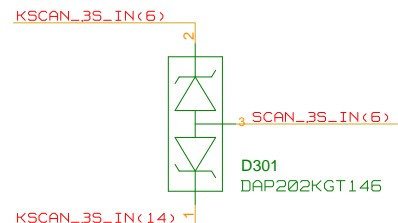
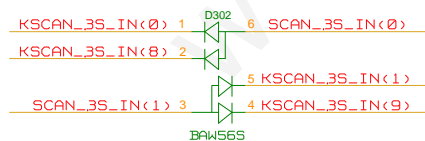
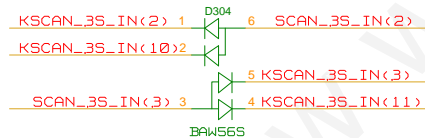
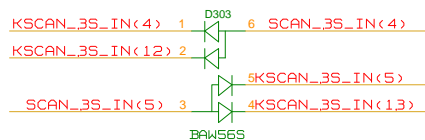
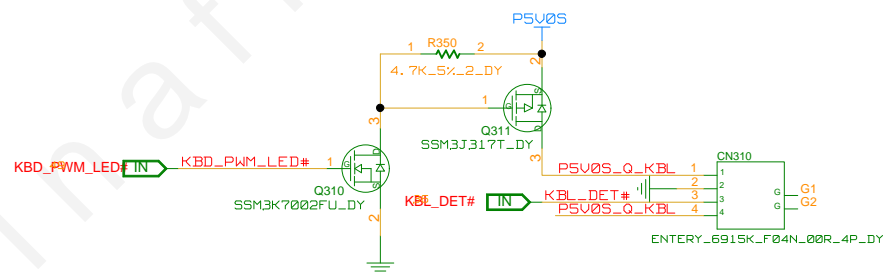
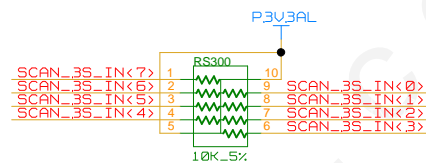
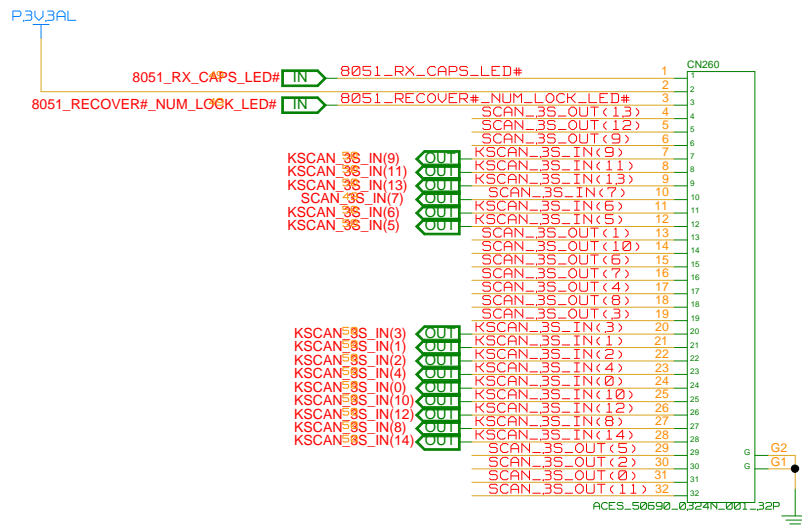
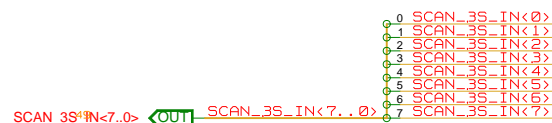
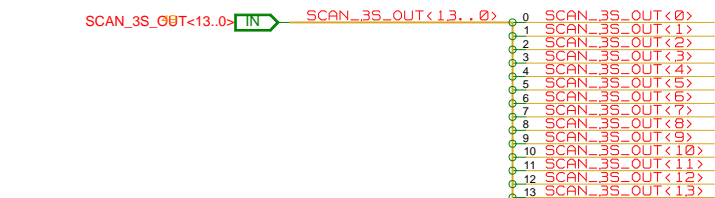
		DOC NUMBER
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SIZE A,3	CODE CS	DOCUMENT < DOC_NUMBER >
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CHANGE by	Ed1	DATE	01-NOV-201
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1

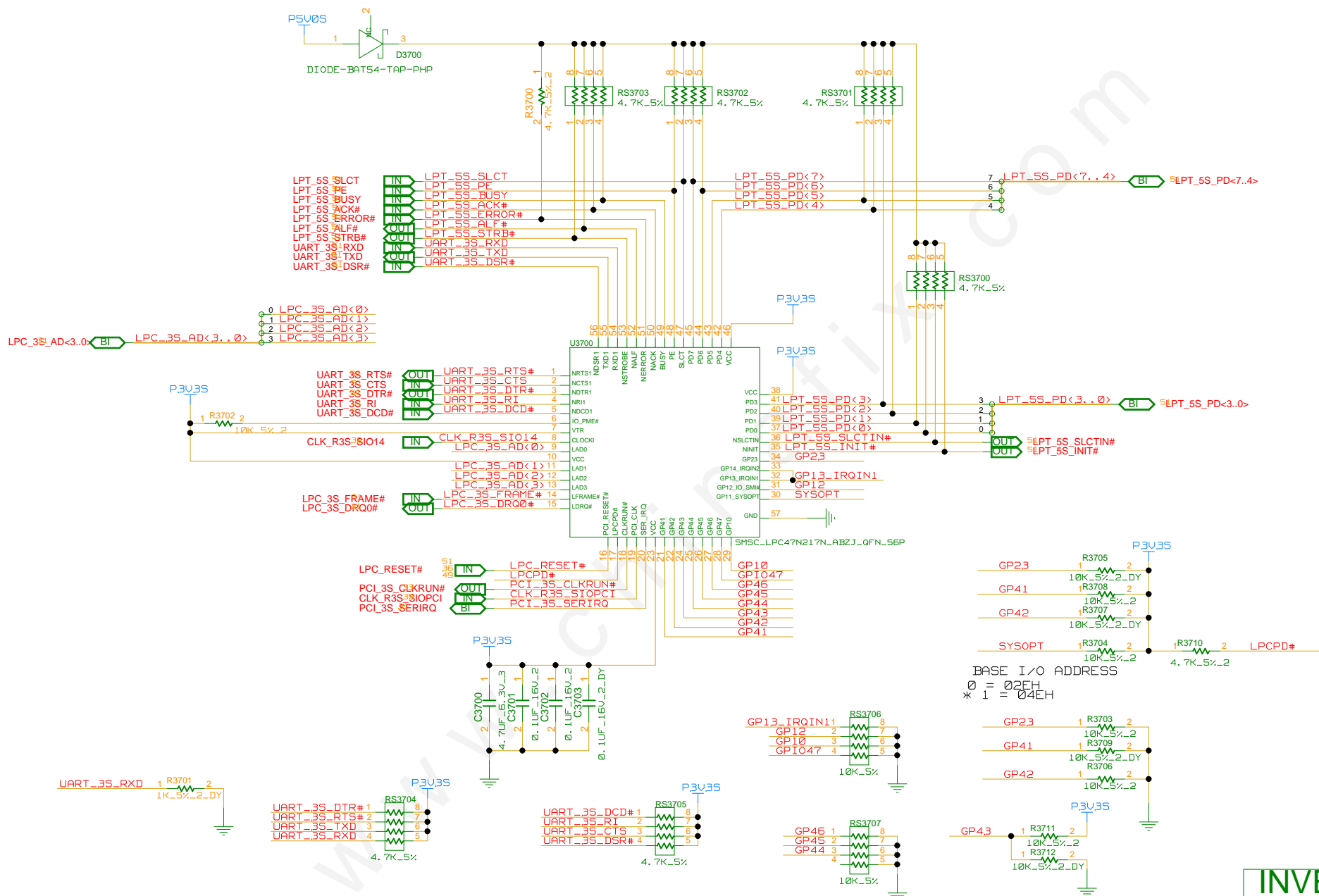
REFERENCE NUMER : 300~389



INVENTEC

TITLE			
CALUTIN_LUMA_PVR KEYBOARD			
SIZE	CODE	DOC NUMBER	REV
A3	CS	<DOC_NUMBER>	A01
SHEET 50 of 65			

REFERENCE NUMBER : .3700~.3799

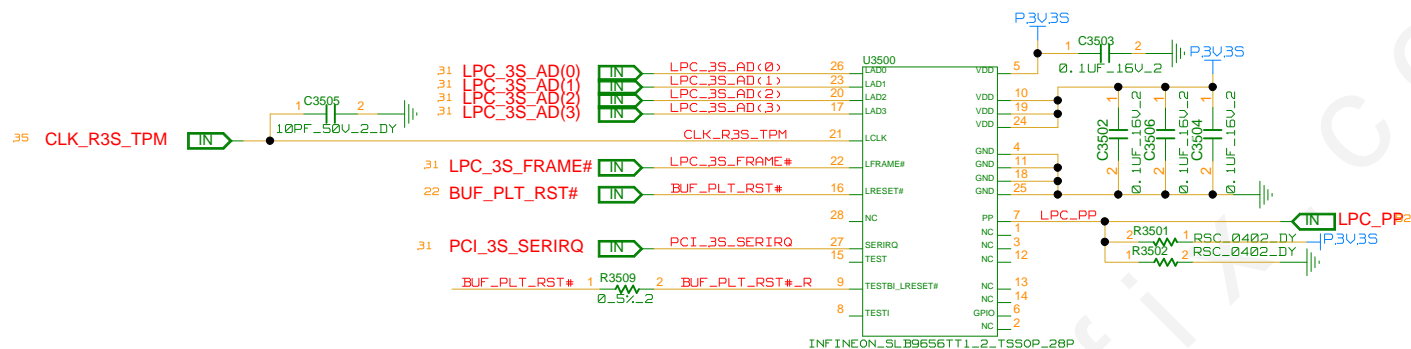


INVENTEC

TITLE			
CALVIN_LMA_PVR SUPER I/O			
SIZE A3	CODE CS	DOC.NUMBER < DOC_NUMBER >	REV A01
SHEET 51 of 66			

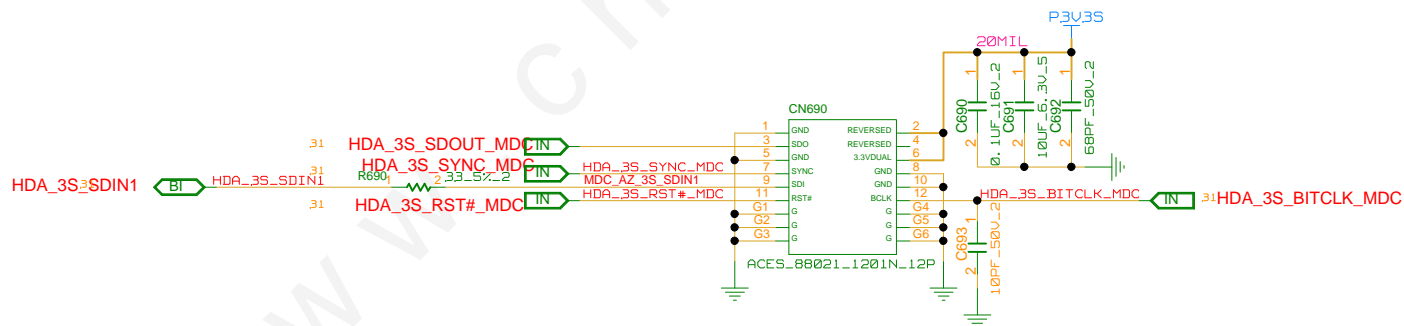
REFERENCE NUMER : .3500~.3549

TPM1.2
SLB9635 TCG REV 103
SLB9655 TCG REV 116 (W/OTP)



TPM1.2

REFERENCE NUMER : 650~699

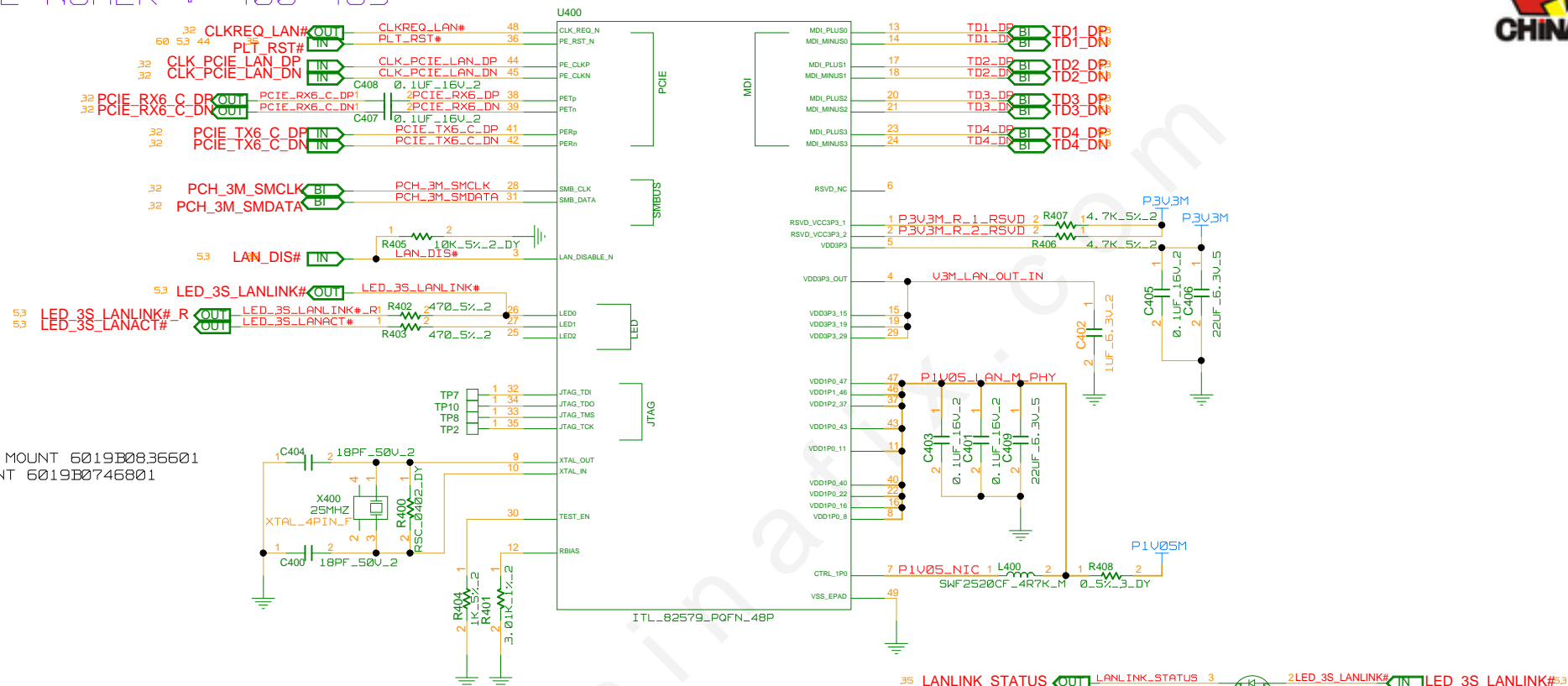


MDC CONN

INVENTEC

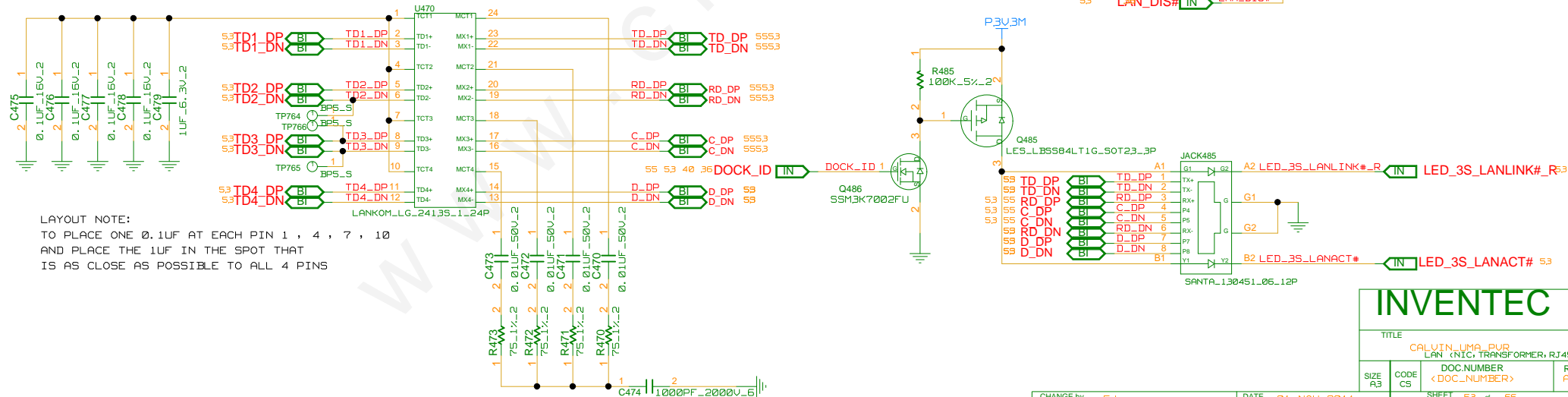
TITLE			
CALVIN_LMA_PVR TPM & MDC			
SIZE	CODE	DOC NUMBER	REV
A3	CS	<DOC_NUMBER>	A01

REFERENCE NUMER : 400~469



NOTE:
NON-UPRO SKU U400 MOUNT 6019B0836601
UPRO SKU U400 MOUNT 6019B0746801

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			
CALVIN_UMA_PUB			
LAN (NIC, TRANSFORMER, RJ45)			
SIZE	CODE	DOC NUMBER	REV
A3	CS	<DOC NUMBER>	A01
SHEET 53 of 66			

CHANGE BY Fdu DATE 01-NOV-2011



WLAN

REFERENCE NUMBER: 1.300~1.349

WWAN
MSATA

REFERENCE NUMBER: 1400~1499

INVENTEC

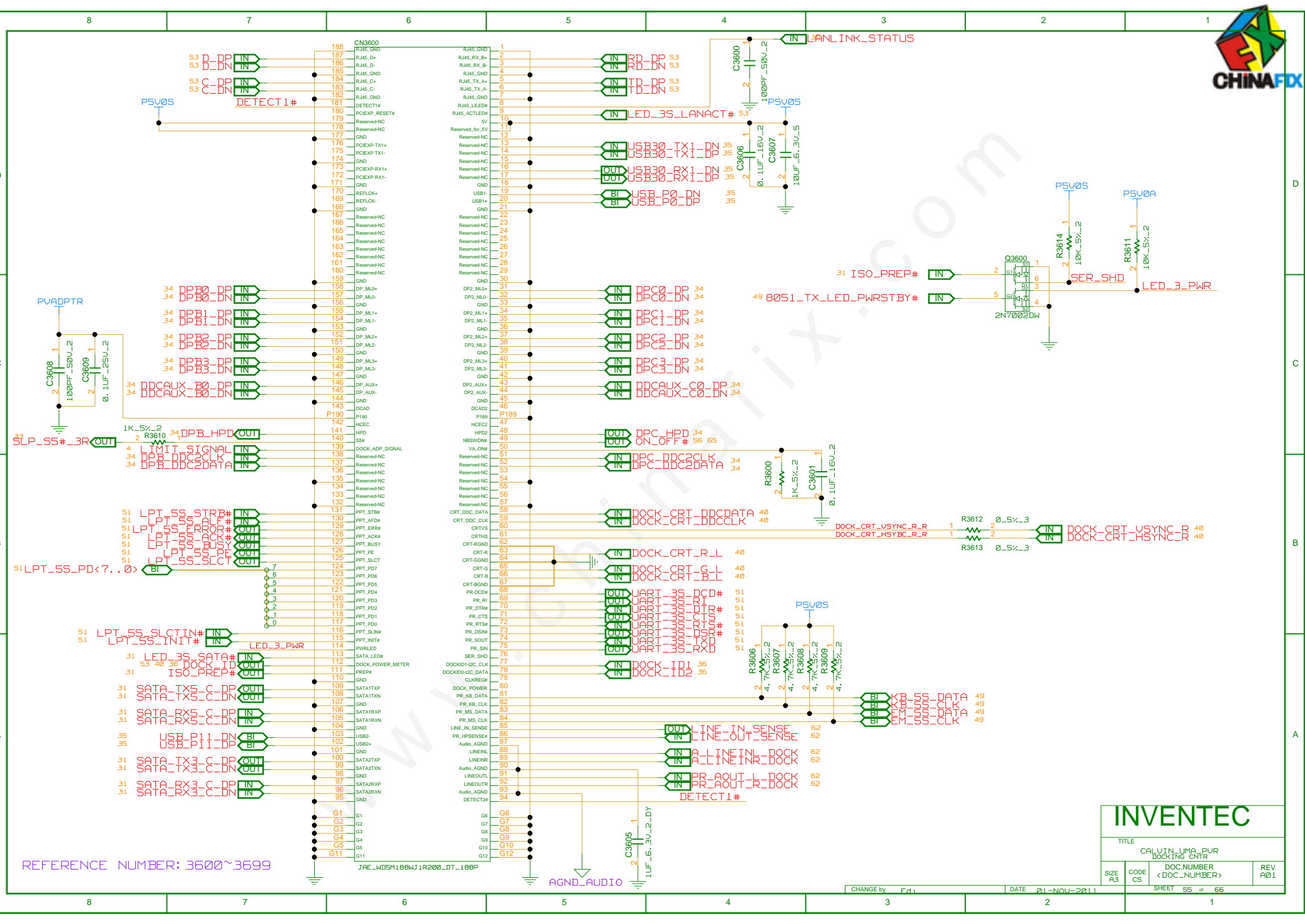
TITLE
CALUTN LIMA BUR

CHLORINE DIOXIDE FOR WWAN & WLAN & SIM	
DOC NUMBER	

SIZE A,3	CODE CS	< DOC_NUMBER >
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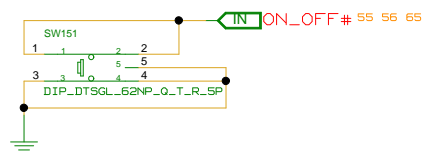
CHANGE by	Ed	DATE	01-NOV-2011
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SHEET 54 of 68

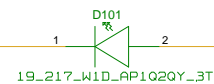


REFERENCE NUMBER: 3600~3699

INVENTEC			
TITLE			
CALVIN_LMA_PVR DOCKING_CNTR			
DOC. NUMBER			
< DOC. NUMBER >			
REV			
A01			
SIZE	CODE	SHEET 55 of 66	
A3	CS		



8051-TX_LED_PWRSTBY# 60



P3V3AL



P3V3AL



POWER / STANDBY LED

P3V3A



PWR_BTN_OUT# 22

36 WWAN_TRANSMIT_OFF#

47 LED_BLUETOOTH

P3V3S



P3V3S



WLAN_WWAN_BLUETOOTH_ LED

REFERENCE NUMBER: 100~199

INVENTEC

TITLE CALVIN_UMA_PVP POWER & WLAN_LED

DOC NUMBER <DOC_NUMBER> REV A01

SIZE A3 CODE CS SHEET 56 of 65

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



SCREW

1 S27
SCREW320_900_1P

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

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

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

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

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

CPU

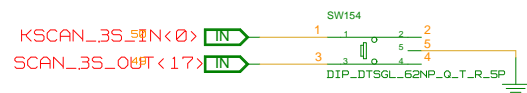
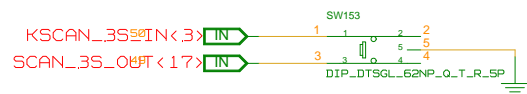
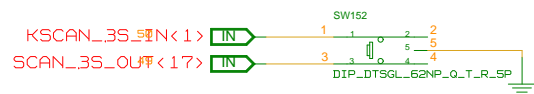
INVENTEC

TITLE
CALVIN_UMA_PVR
SCREW

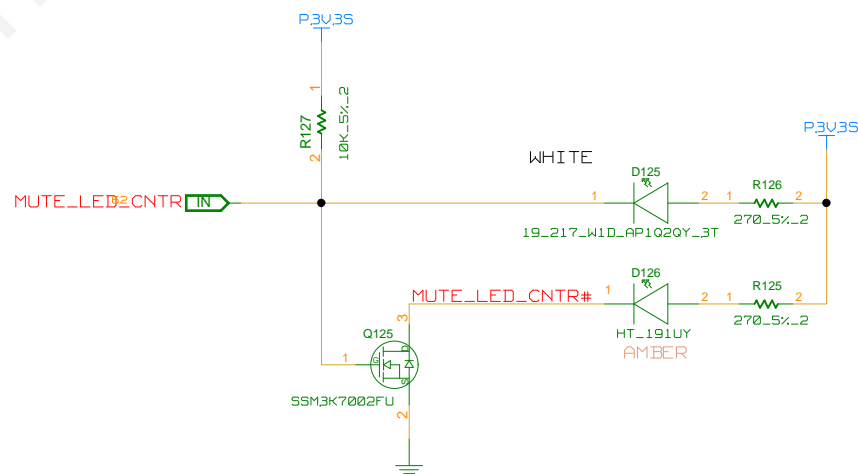
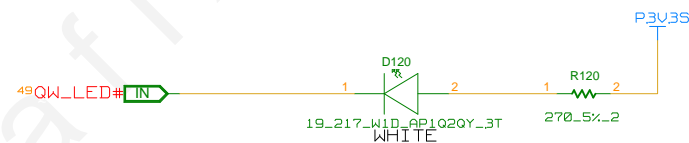
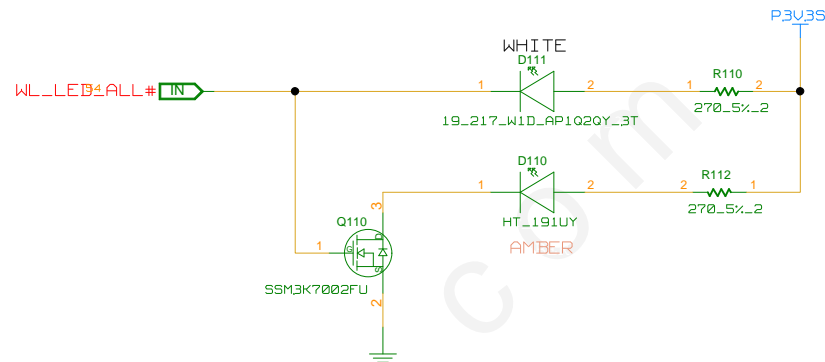
SIZE A3	CODE CS	DOC.NUMBER <DOC_NUMBER>	REV A01
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CHANGE by F.d. DATE 01-NOV-2011

SHEET 57 of 65

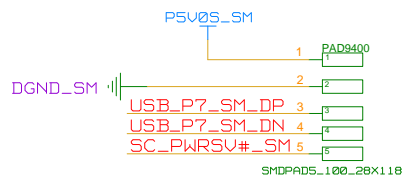


REFERENCE NUMBER: 100~199



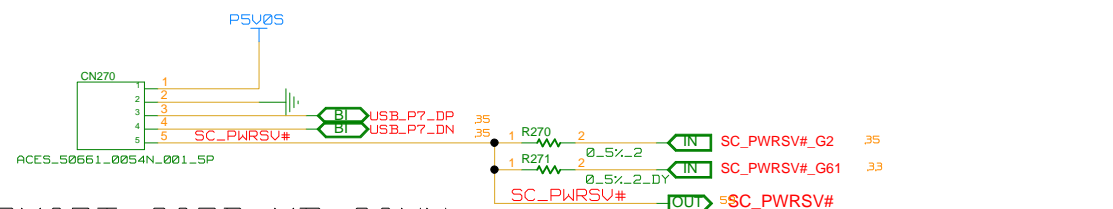
INVENTEC			
TITLE CALVIN_UMA_PVR WIRELESS / QUICK WEB / MUTE LED			
SIZE A3	CODE CS	DOC NUMBER <DOC_NUMBER>	REV A01
CHANGE by F.d. DATE 01-NOV-2011 SHEET 58 of 65			

FIX9401
FIX_MASK
FIX9402
FIX_MASK
FIX9403
FIX_MASK
FIX9404
FIX_MASK
FIX9405
FIX_MASK
FIX9406
FIX_MASK
FIX9407
FIX_MASK
FIX9408
FIX_MASK



REFERENCE NUMBER: 9400~9499

SMART CARD MB CONN.

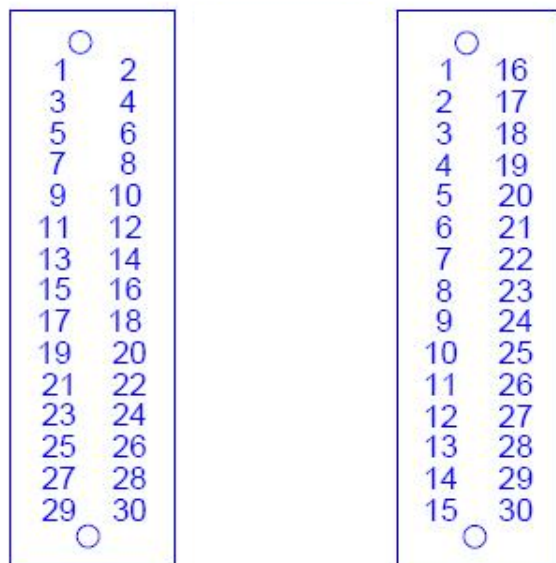


INVENTEC

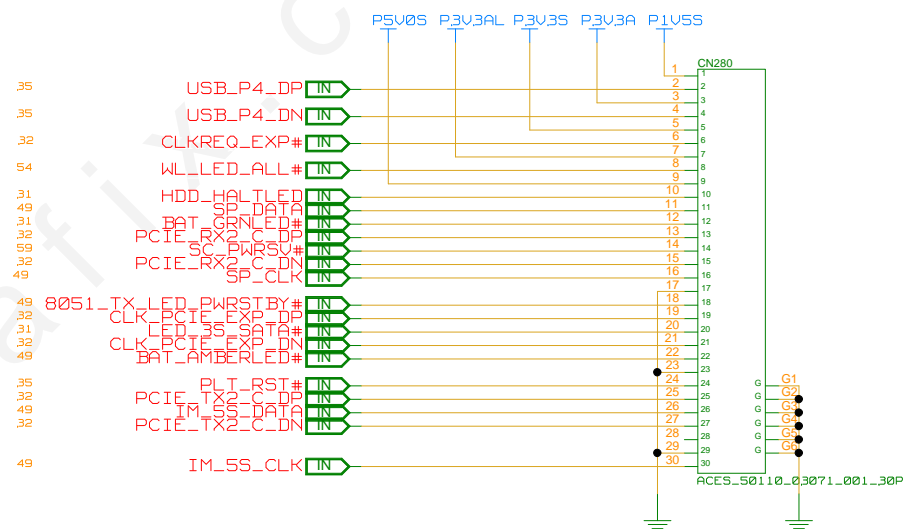
TITLE CALUTIN_UMA_PVR SMART CARD			
SIZE A3	CODE CS	DOC. NUMBER <DOC. NUMBER>	REV A01
SHEET 59 of 65			

EXPRESSCARD CONN

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



REFERENCE NUMBER: 9000~9099



EXCHANGE 6012B0059804 ON MB
6012B0029801 ON EXP CARD
EXPRESS CARD MB CONN.

INVENTEC			
TITLE CALVIN_LMA_PUB EXPRESS CARD CNTR			
SIZE A3	CODE CS	DOC.NUMBER <DOC_NUMBER>	REV A01
SHEET 60 of 65			



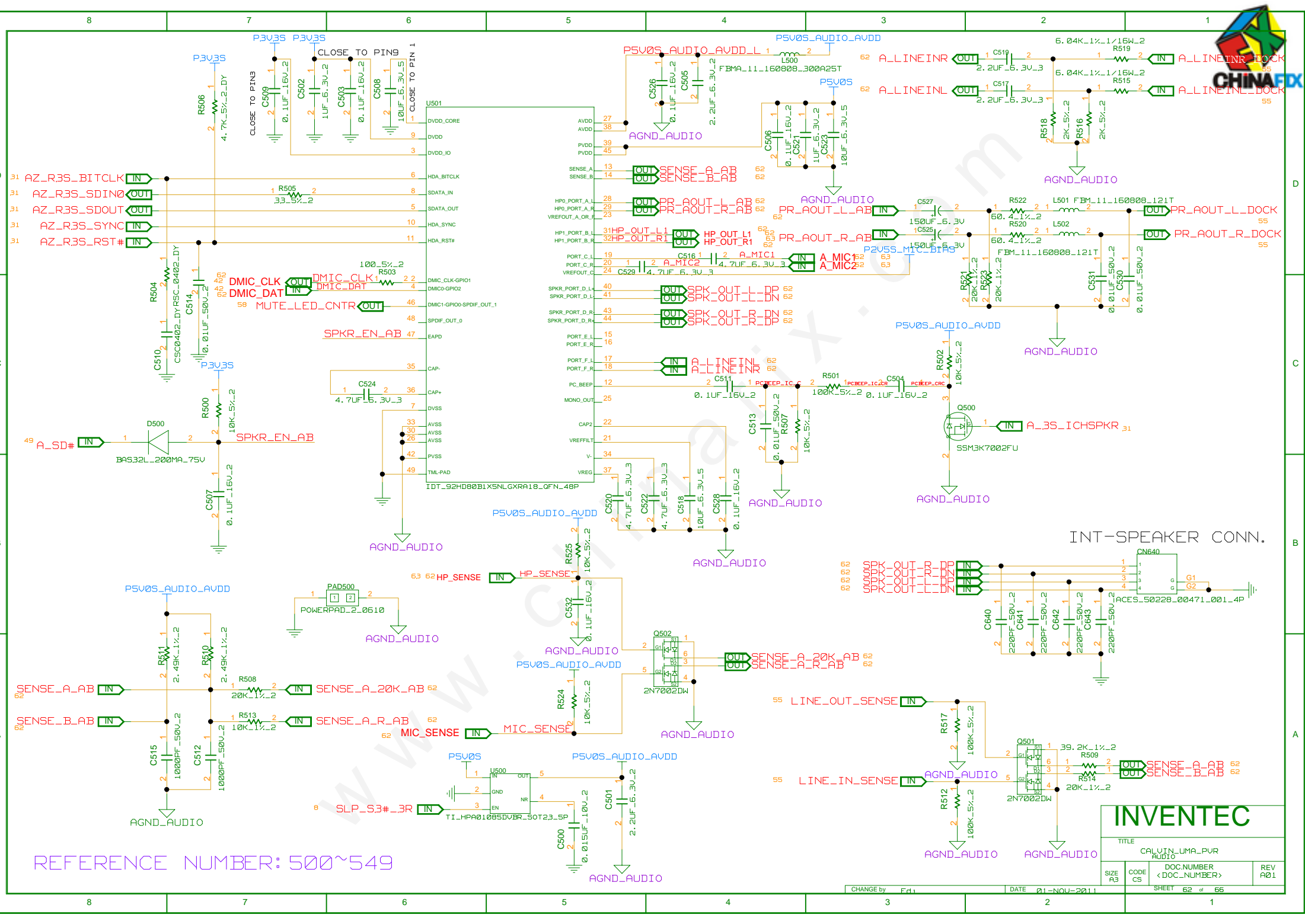
EMPTY

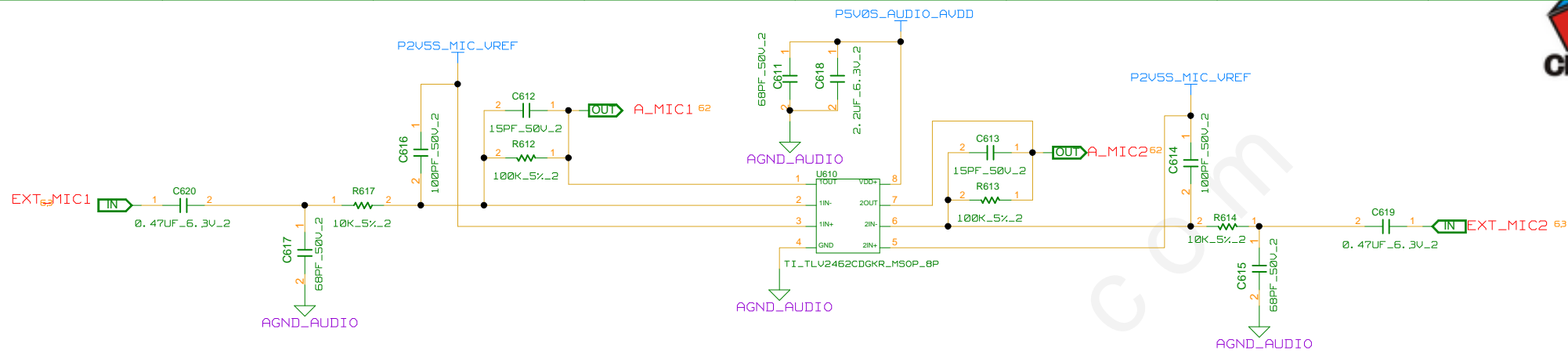
INVENTEC

TITLE			
CALVIN_LMA_PUB EXPRESS CARD/POINT STICK/TOUCH PAD<SPARE>			
SIZE		REV	
A3		A01	
CODE		DOC.NUMBER	
CS		<DOC_NUMBER>	

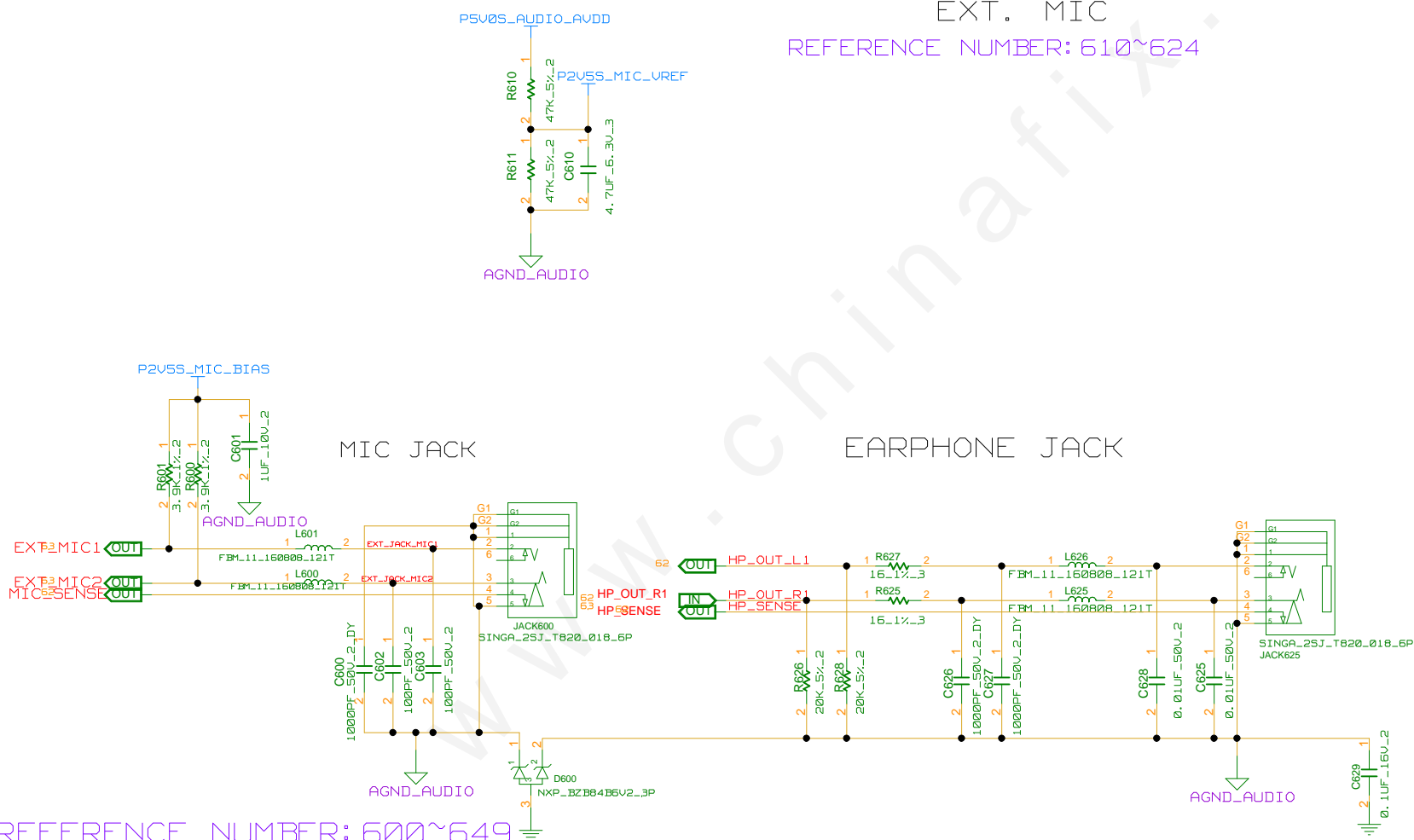
CHANGE by F.d.1 DATE 01-NOV-2011

SHEET 61 of 65



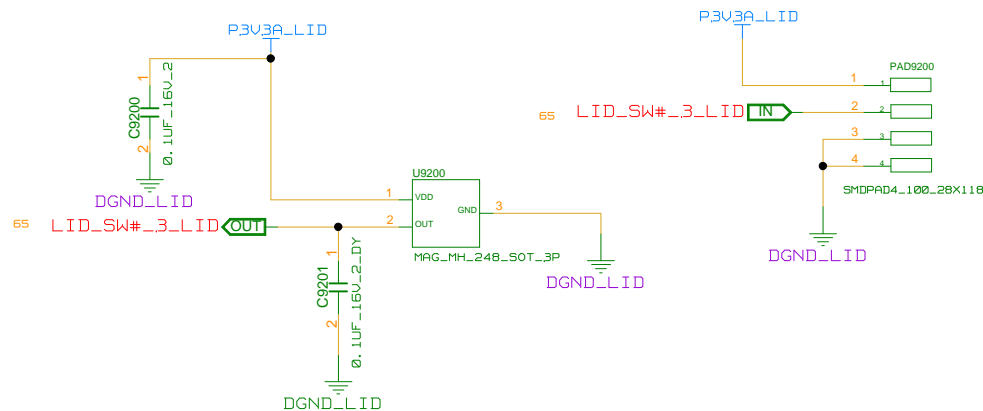


EXT. MIC
REFERENCE NUMBER: 610~624



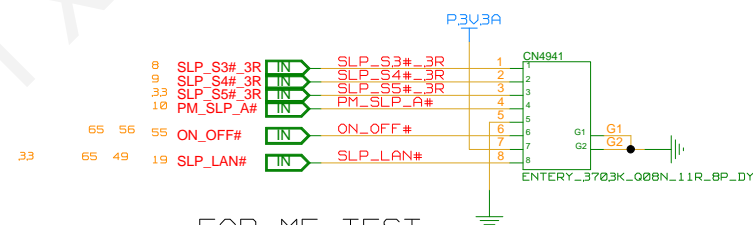
REFERENCE NUMBER: 600~649

INVENTEC			
TITLE CALVIN_UMA_CVR EXT. MIC / MIC / HP			
SIZE A3	CODE CS	DOC. NUMBER <DOC. NUMBER>	REV A01
SHEET 63 of 65			

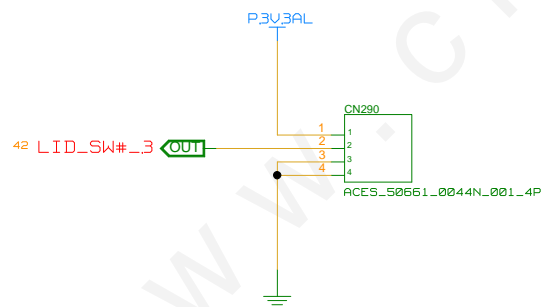


LID SWITCH DB

REFERENCE NUMBER: 9200~9299



FOR ME TEST



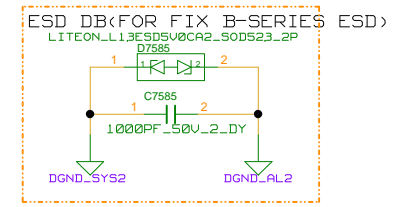
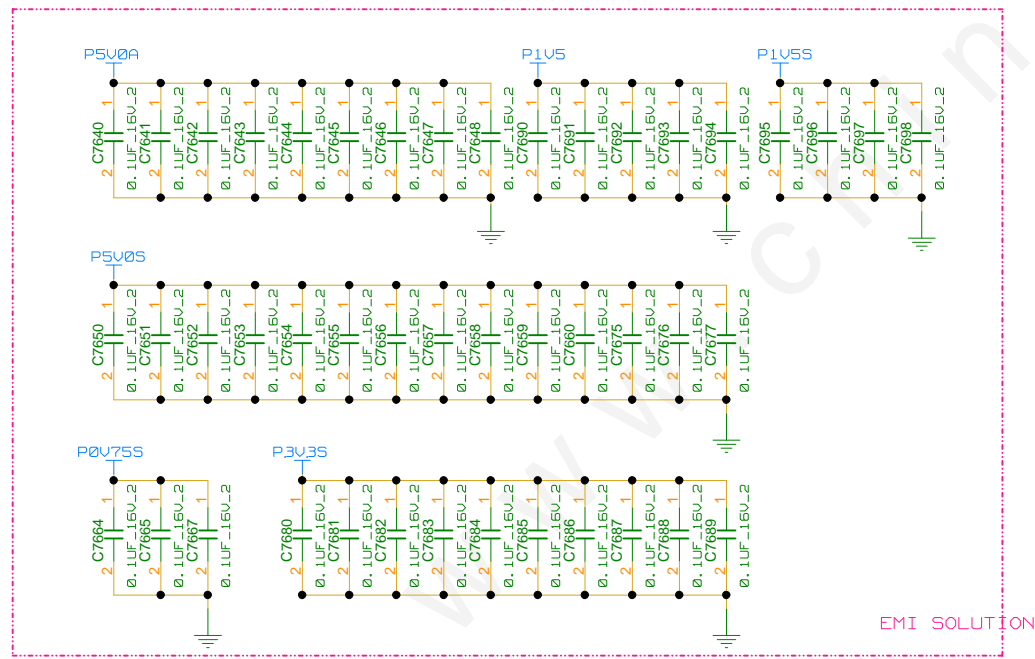
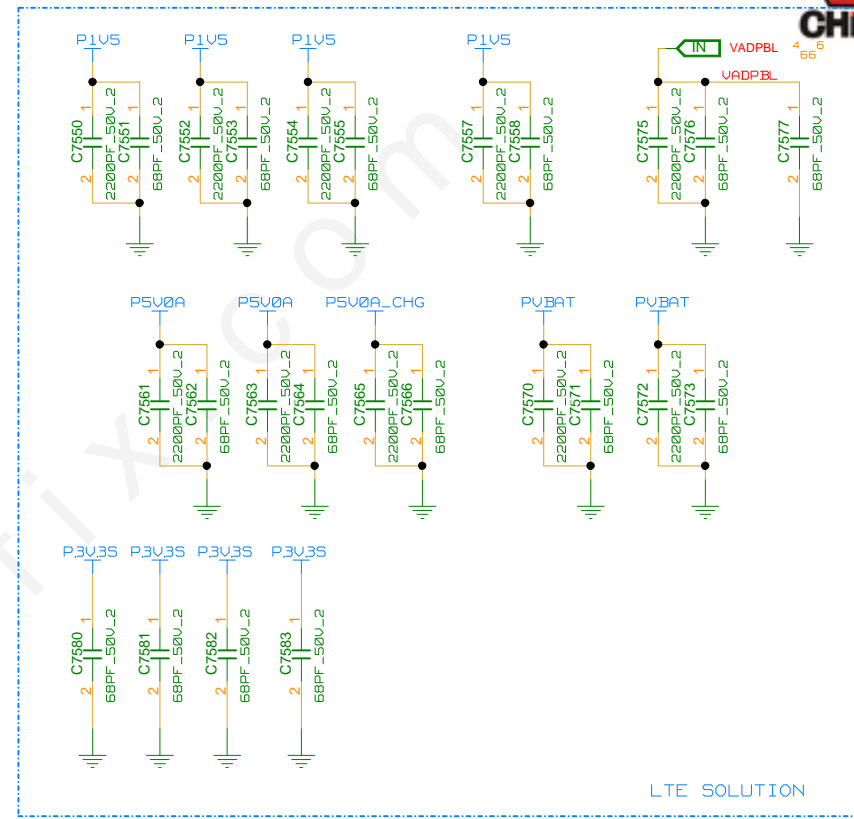
LID SWITCH MB CONN.

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



CHANGE by	Fd1	DATE	01-NOV-2011
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