HSF Property:ROHS or Halogen-Free

COMET DIS

SI1 BUILD

2012.11.30

21-OCT-2002		
DATE	CHANGE NO.	REV

	EE	DATE	POWER	DATE
DRAWER	EDI CHEN	2012/10/24	IRAY CHEN	2012/10/24
DESIGN	EDI CHEN	2012/10/24	IRAY CHEN	2012/10/24
CHECK	EDI CHEN	2012/10/24	IRAY CHEN	2012/10/24
RESPONSIBLE	EDI CHEN	2012/10/24	IRAY CHEN	2012/10/24

SIZE= A3 VER: X01
FILE NAME: COMET DIS
P/N 6050A2559101 XXX

INVENTEC

TITLE MODEL,PROJECT,FUNCTION
COMET

SIZE	CODE	DOC.NUMBER	REV
C	CS	1310xxxxx-0-0	X01

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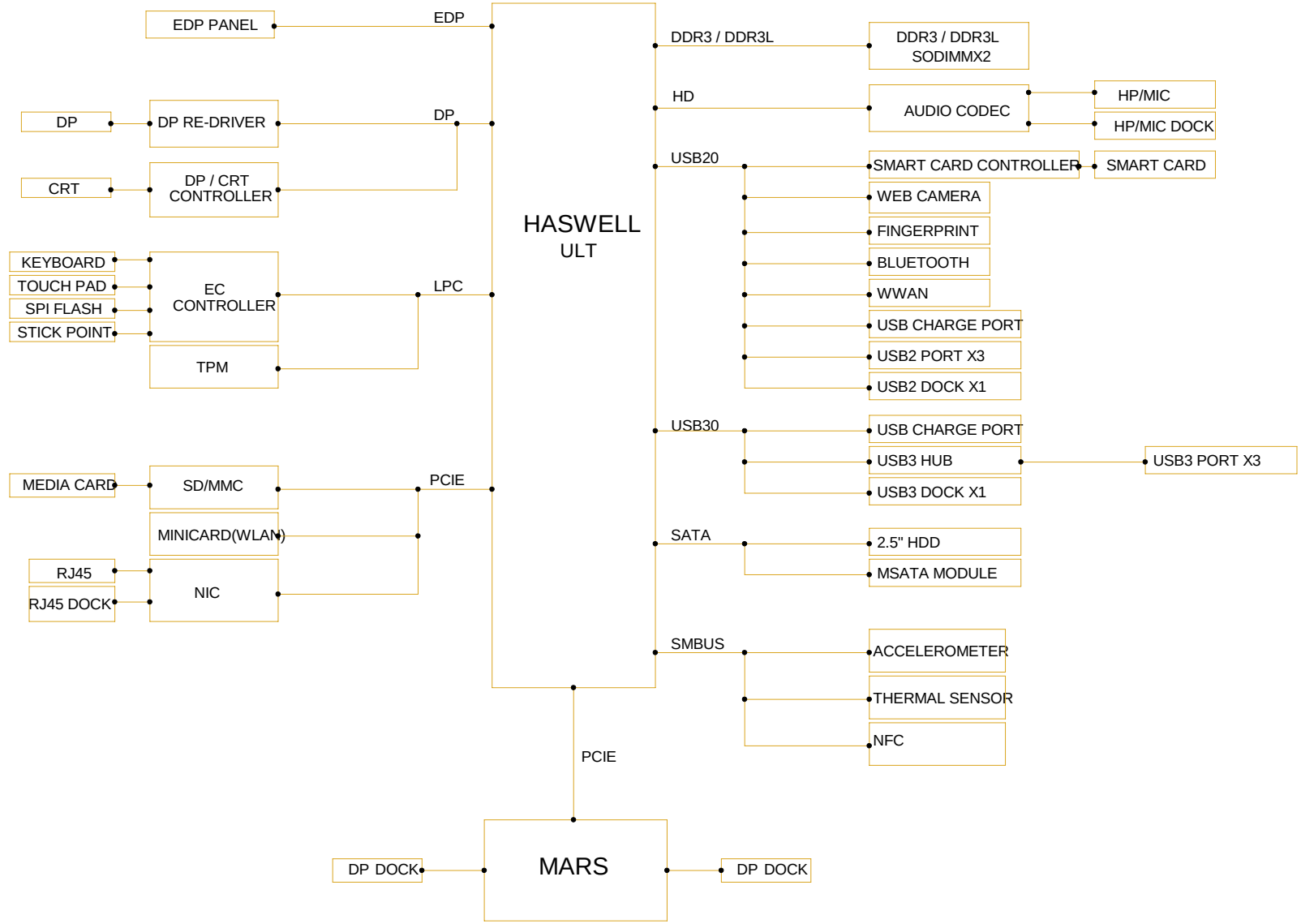

INVENTEC

MODEL,PROJECT,FUNCTION
Block Diagram

SIZE	CODE	DOC.NUMBER	REV
C	CS	1310xxxxx-0-0	X01

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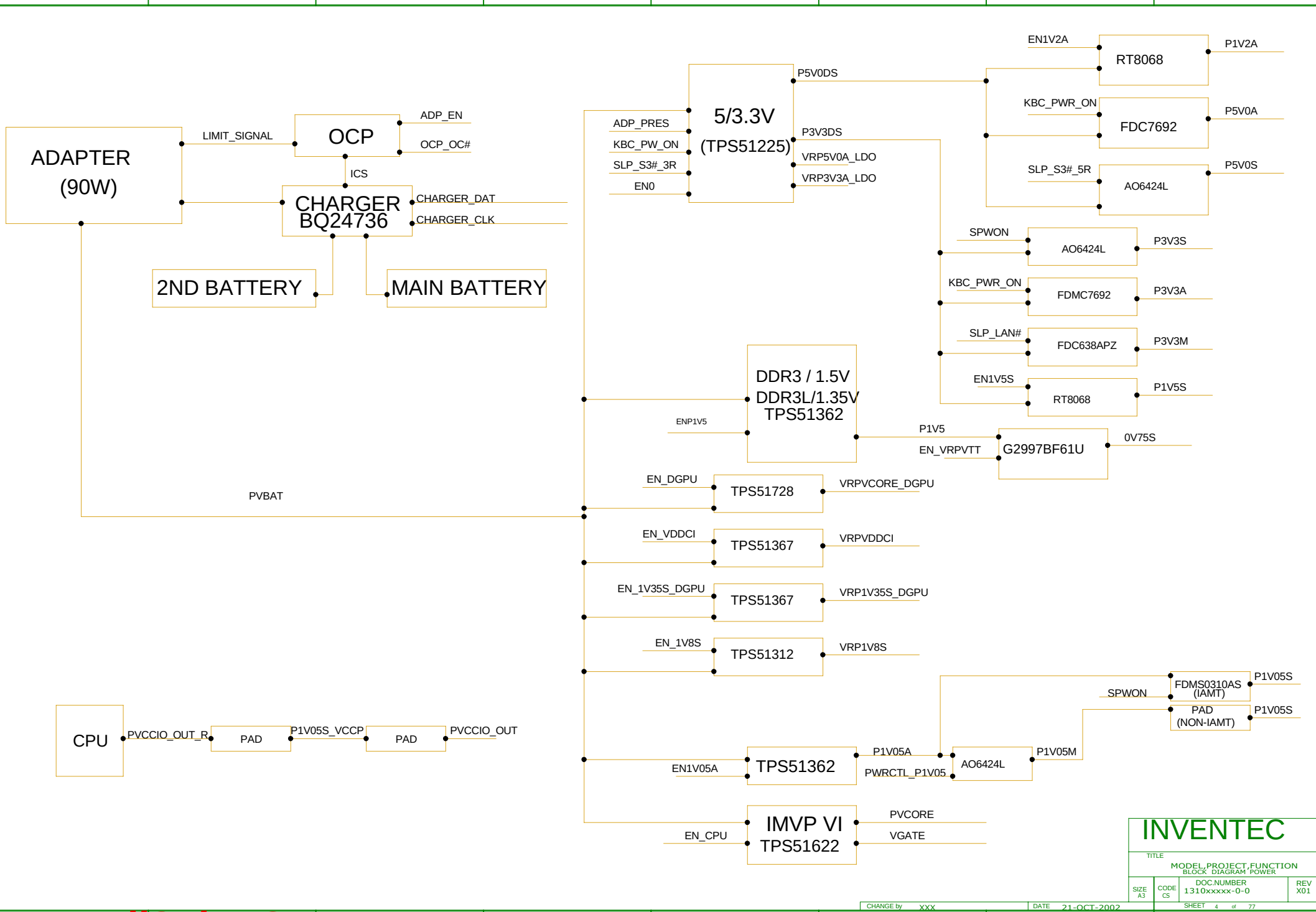

INVENTEC

TITLE: MODEL,PROJECT,FUNCTION
BLOCK DIAGRAM POWER

SIZE	CODE	DOC.NUMBER	REV
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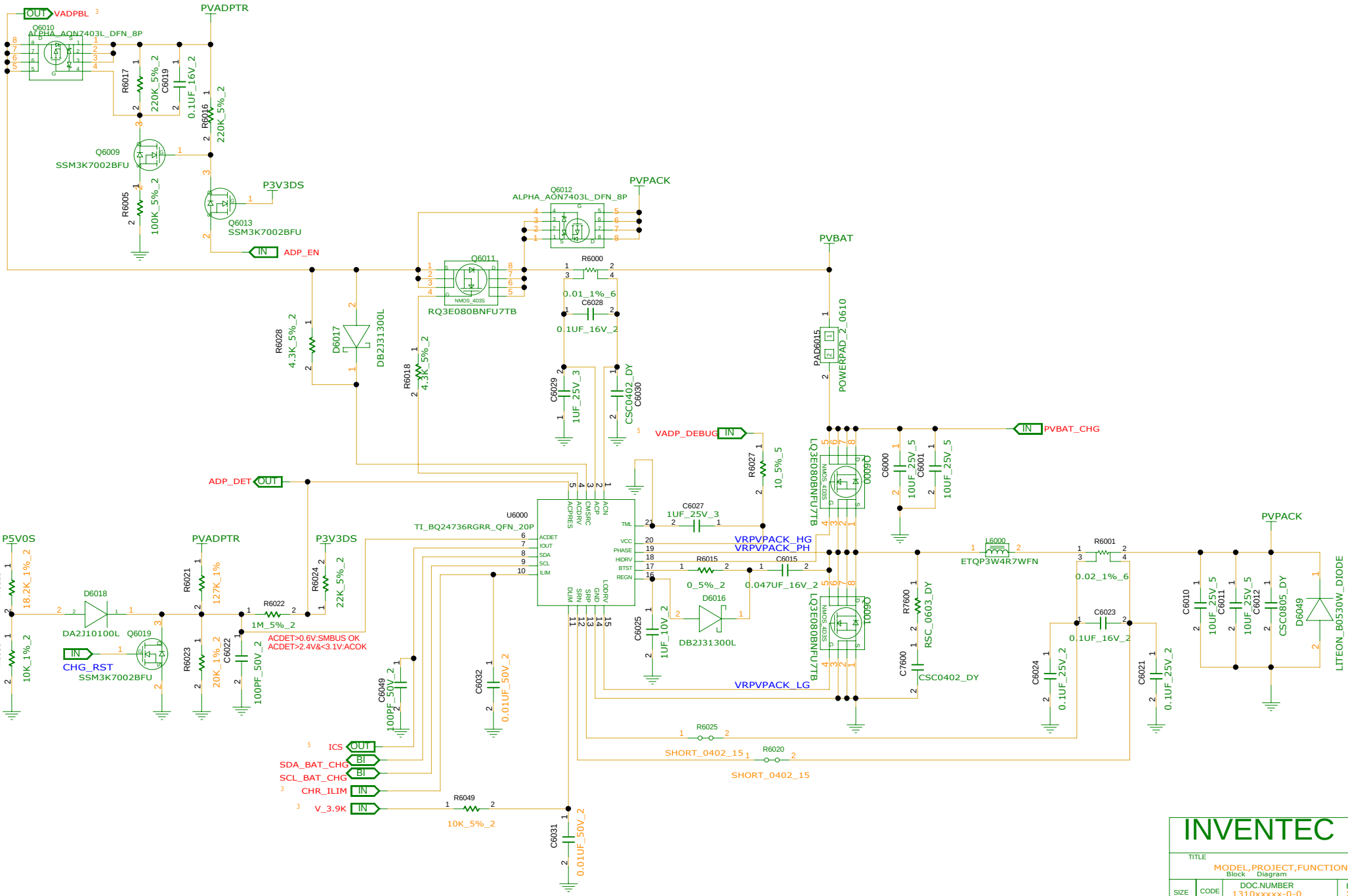
OUT VADPBL
PVADPTR
Q6010
ALPHA_AON7403L_DFN_8P
R6017
220K_5%_2
C6019
0.1UF_16V_2
R6016
220K_5%_2
Q6009
SSM3K7002BFU
R6005
100K_5%_2
P3V3DS
Q6013
SSM3K7002BFU
IN ADP_EN
PVPACK
Q6012
ALPHA_AON7403L_DFN_8P
Q6011
NMOS_4D3S
RQ3E080BNFU7TB
R6000
0.01_1%_6
C6028
0.1UF_16V_2
PVBAT
PAD6015
POWERPAD_2_0610
R6028
4.3K_5%_2
D6017
DB2J31300L
R6018
4.3K_5%_2
C6029
1UF_25V_3
C6030
CSC0402_DY
VADP_DEBUG IN
R6027
10_5%_5
IN PVBAT_CHG
C6000
10UF_25V_5
C6001
10UF_25V_5
Q6000
LQ3E080BNFU7TB
Q6001
LQ3E080BNFU7TB
ADP_DET OUT
U6000
TI_BQ24736RGRR_QFN_20P
C6027
1UF_25V_3
VRPVPACK_HG
VRPVPACK_PH
R6015
0_5%_2
C6015
0.047UF_16V_2
D6016
DB2J31300L
C6025
1UF_10V_2
VRPVPACK_LG
L6000
ETQP3W4R7WFN
R6001
0.02_1%_6
C6023
0.1UF_16V_2
R7600
RSC_0603_DY
C7600
CSC0402_DY
C6024
0.1UF_25V_2
C6021
0.1UF_25V_2
C6010
10UF_25V_5
C6011
10UF_25V_5
C6012
CSC0805_DY
D6049
LITEON_B0530W_DIODE
P5V0S
R6029
18.2K_1%_2
R6030
10K_1%_2
D6018
DA2J10100L
Q6019
IN CHG_RST
SSM3K7002BFU
PVADPTR
R6021
127K_1%
R6023
20K_1%_2
C6022
100PF_50V_2
P3V3DS
R6024
22K_5%_2
R6022
1M_5%_2
ACDET>0.6V:SMBUS OK
ACDET>2.4V&<3.1V:ACOK
C6049
100PF_50V_2
C6032
0.01UF_50V_2
C6031
0.01UF_50V_2
R6025
SHORT_0402_15
R6020
SHORT_0402_15
ICS OUT
SDA_BAT_CHG BI
SCL_BAT_CHG BI
CHR_ILIM IN
V_3.9K IN
R6049
10K_5%_2
INVENTEC
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SIZE A3
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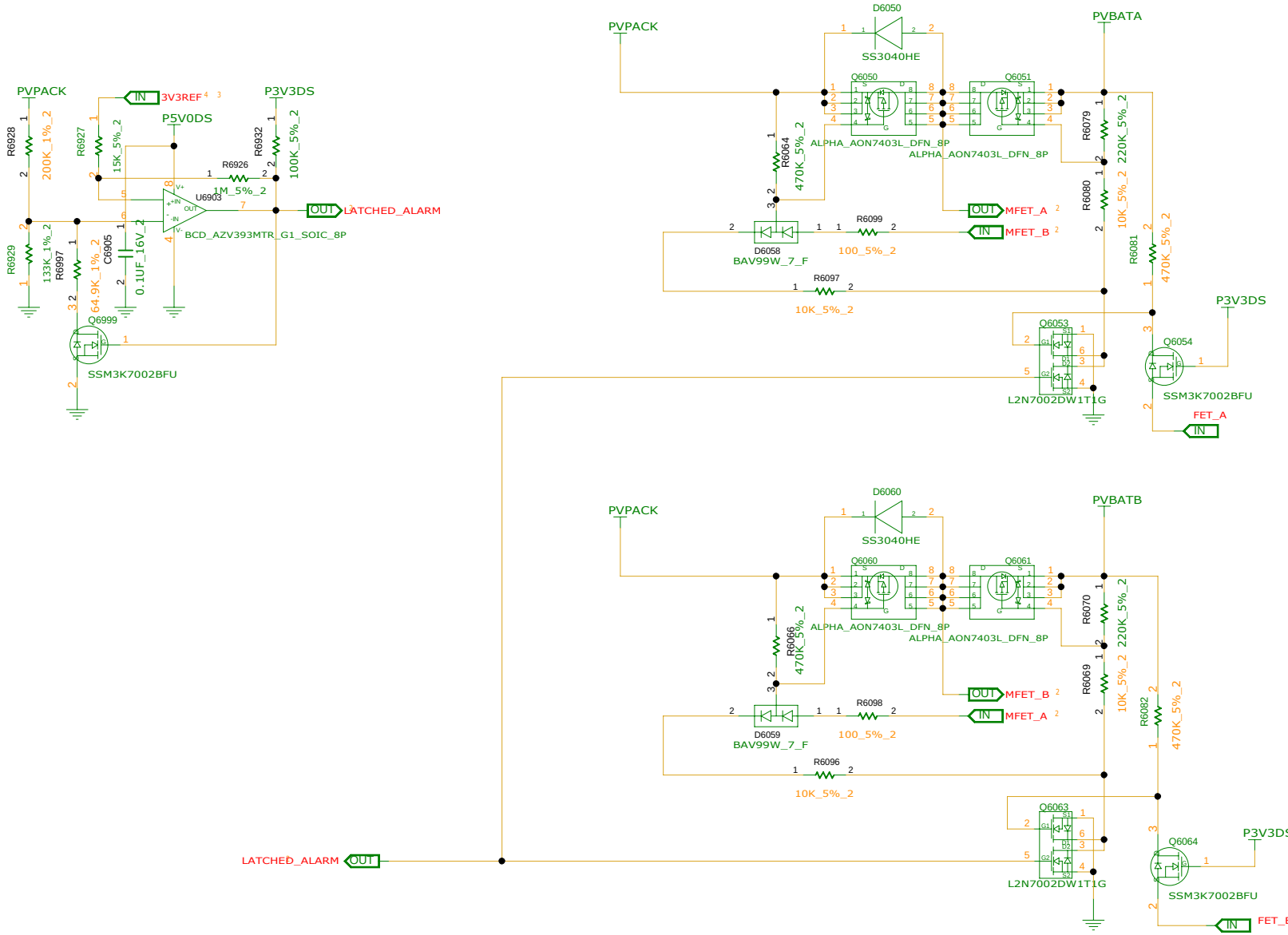

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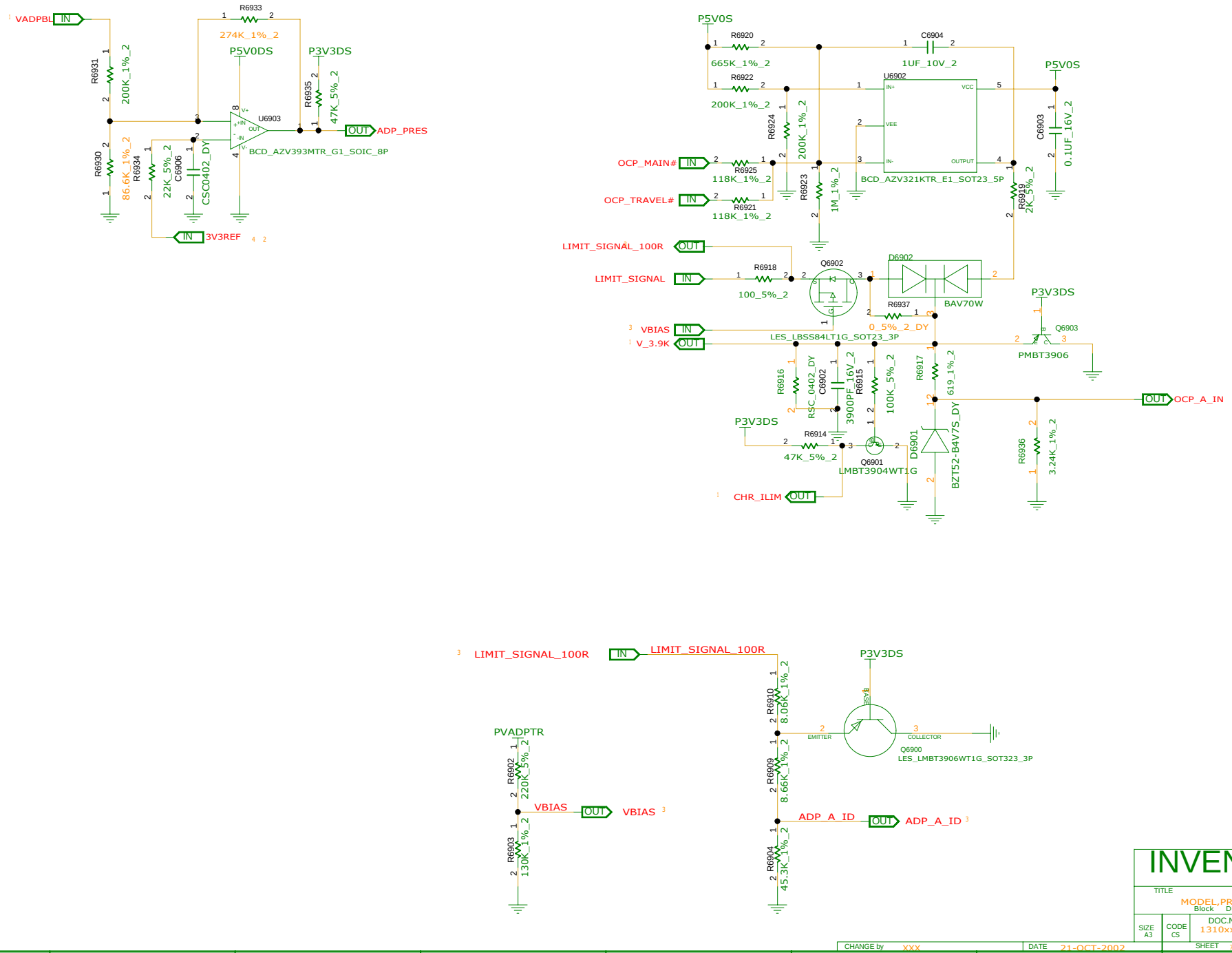
VADPBL
IN
R6931
200K_1%_2
R6930
86.6K_1%_2
R6933
274K_1%_2
P5V0DS
P3V3DS
R6935
47K_5%_2
U6903
BCD_AZV393MTR_G1_SOIC_8P
OUT
ADP_PRES
R6934
22K_5%_2
C6906
CSC0402_DY
IN
3V3REF
P5V0S
R6920
665K_1%_2
C6904
1UF_10V_2
R6922
200K_1%_2
U6902
BCD_AZV321KTR_E1_SOT23_5P
R6924
200K_1%_2
C6903
0.1UF_16V_2
OCP_MAIN#
R6925
118K_1%_2
OCP_TRAVEL#
R6921
118K_1%_2
R6923
1M_1%_2
R6919
2K_5%_2
LIMIT_SIGNAL_100R
LIMIT_SIGNAL
R6918
100_5%_2
Q6902
D6902
BAV70W
R6937
0_5%_2_DY
VBIAS
V_3.9K
LES_LBSS84LT1G_SOT23_3P
P3V3DS
Q6903
PMBT3906
R6916
RSC_0402_DY
C6902
3900PF_16V_2
R6915
100K_5%_2
R6917
619_1%_2
OUT
OCP_A_IN
P3V3DS
R6914
47K_5%_2
Q6901
LMBT3904WT1G
D6901
BZT52-B4V7S_DY
R6936
3.24K_1%_2
CHR_ILIM
OUT
LIMIT_SIGNAL_100R
IN
LIMIT_SIGNAL_100R
P3V3DS
R6910
8.06K_1%_2
PVADPTR
R6902
220K_5%_2
VBIAS
OUT
VBIAS
Q6900
LES_LMBT3906WT1G_SOT323_3P
R6909
8.66K_1%_2
ADP_A_ID
OUT
ADP_A_ID
R6903
130K_1%_2
R6904
45.3K_1%_2
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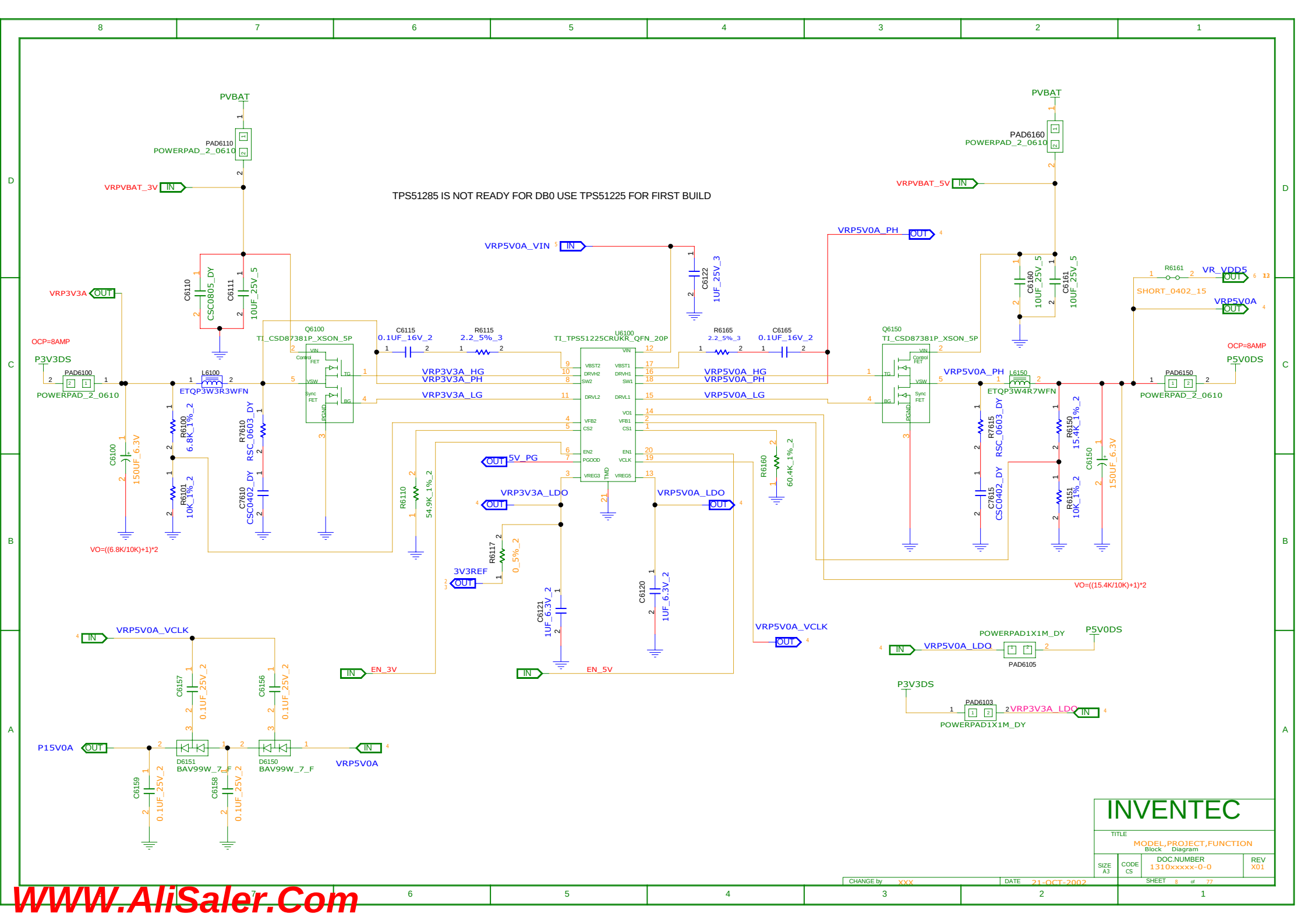

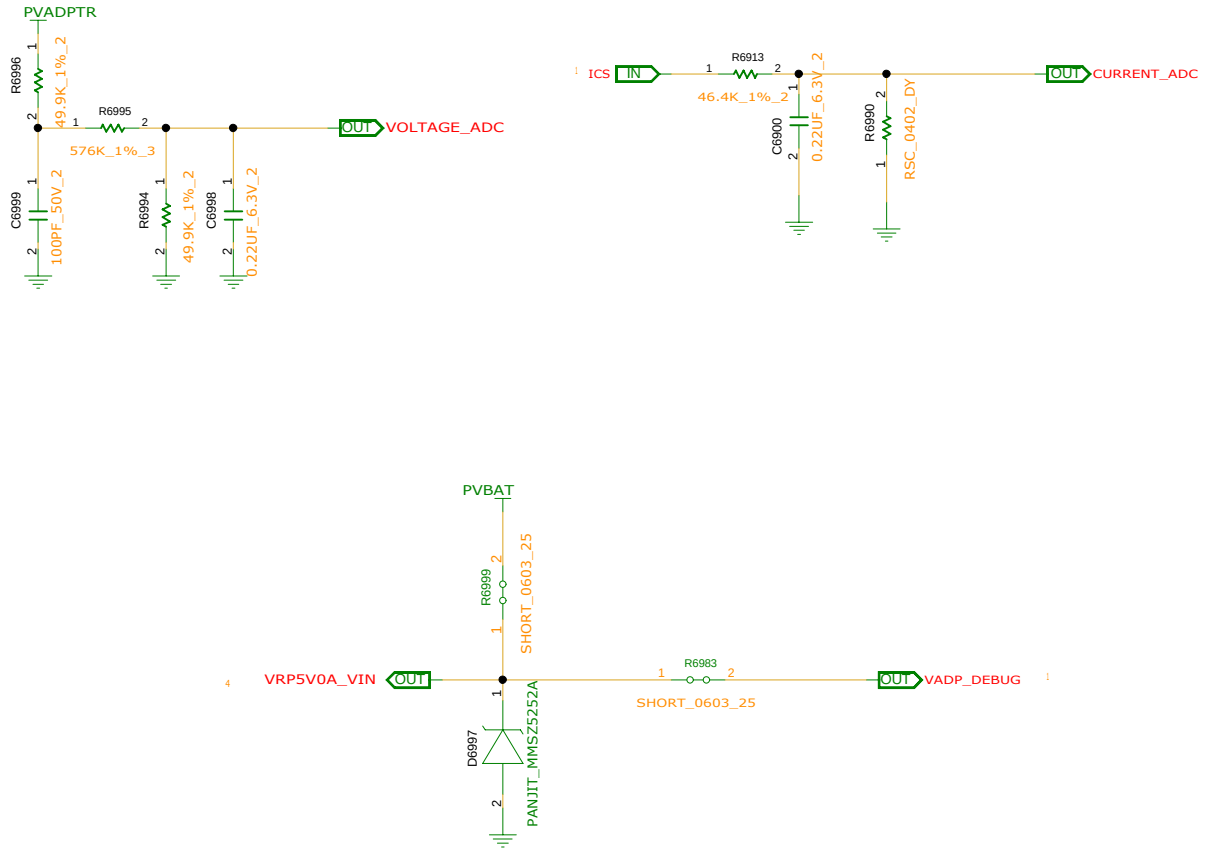

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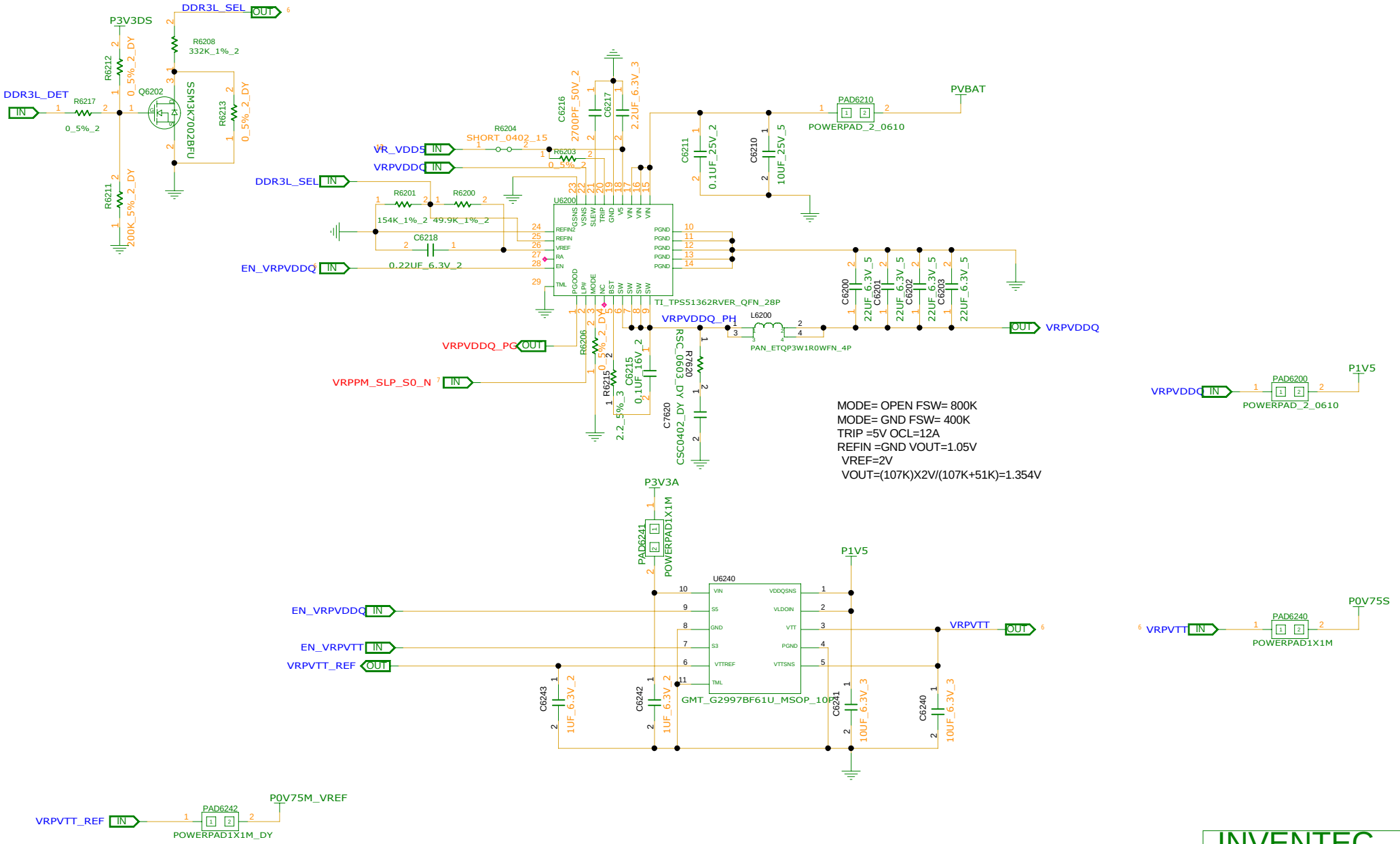

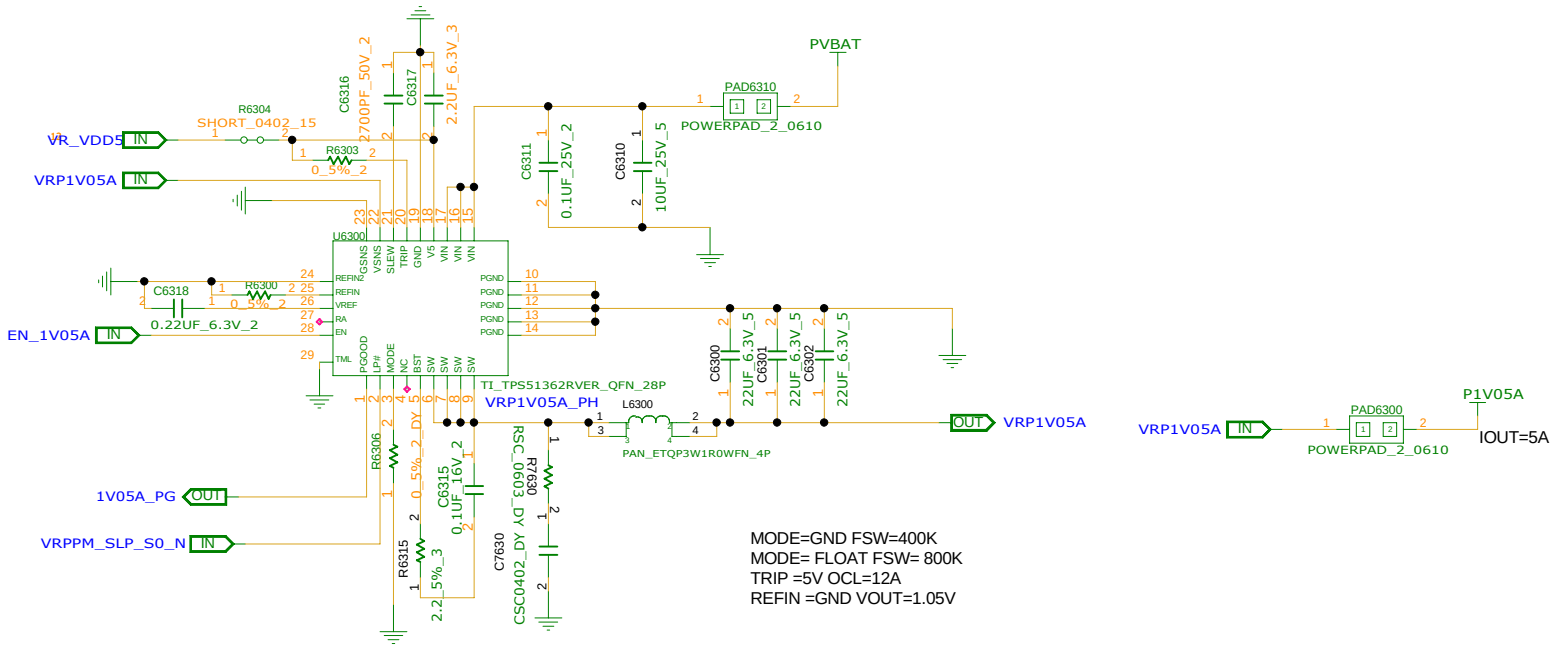

INVENTEC

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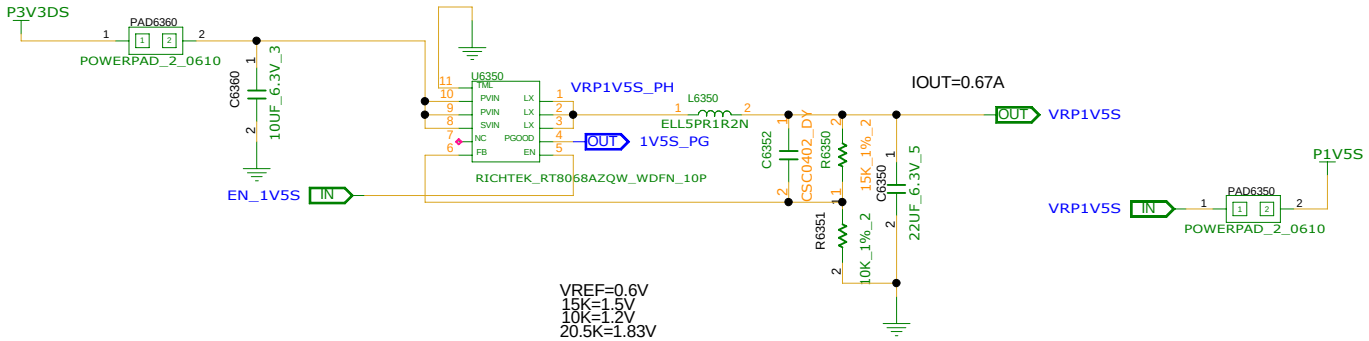

INVENTEC

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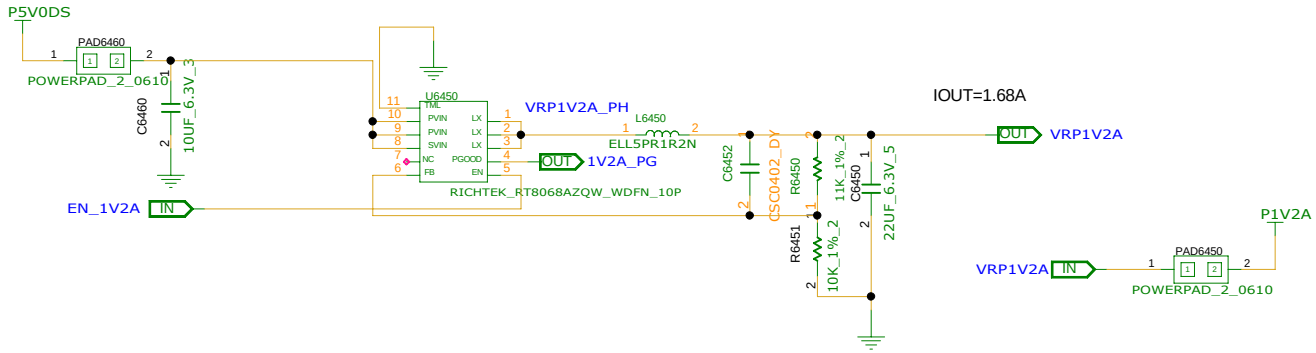

VREF=0.6V
15K=1.5V
10K=1.2V
11K=1.25V
20.5K=1.83V

MODE= FLOAT=SKIP MODE
MODE=VIN=FCCM MODE

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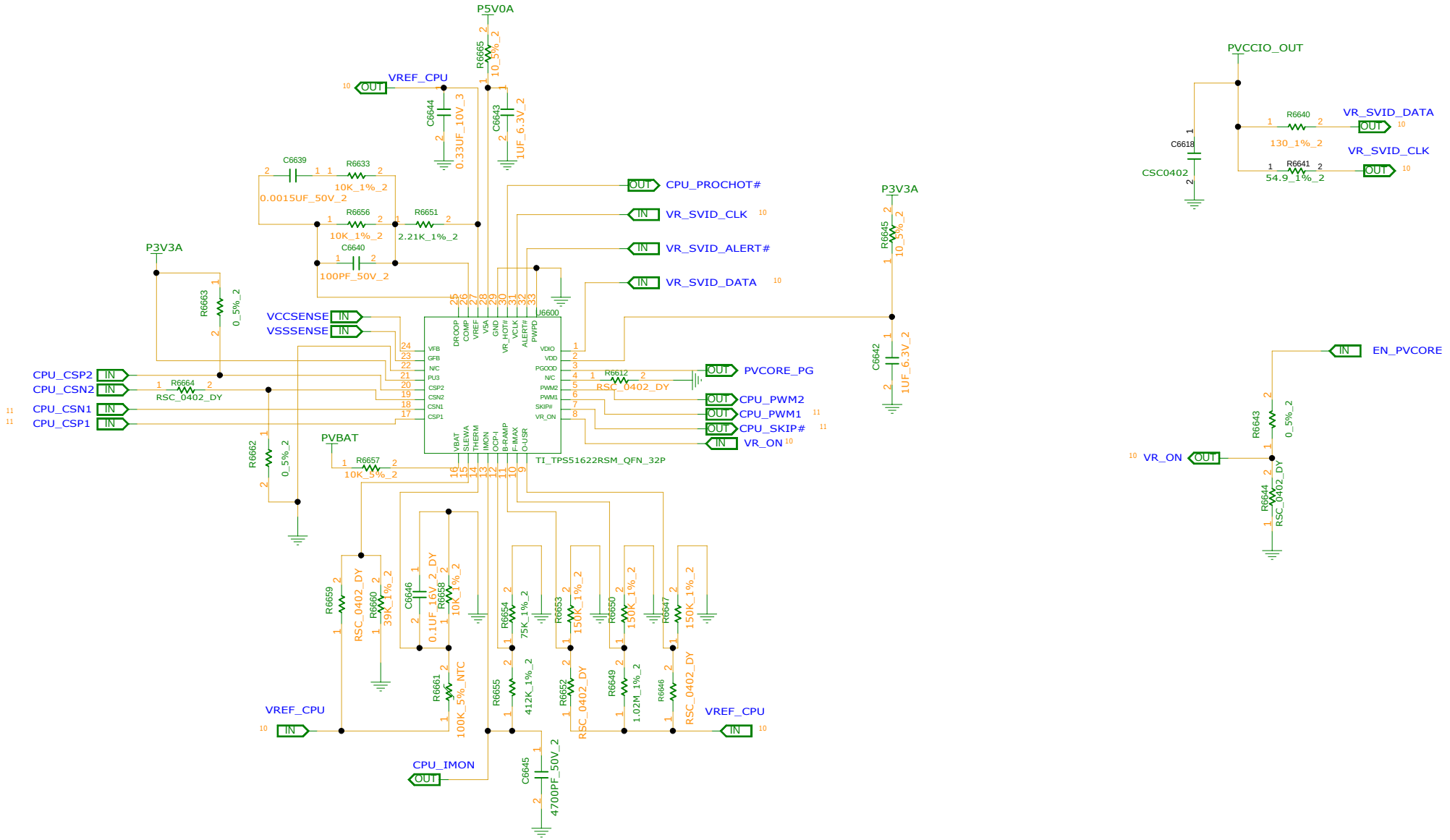

INVENTEC			
TITLE: MODEL,PROJECT,FUNCTION Block Diagram			
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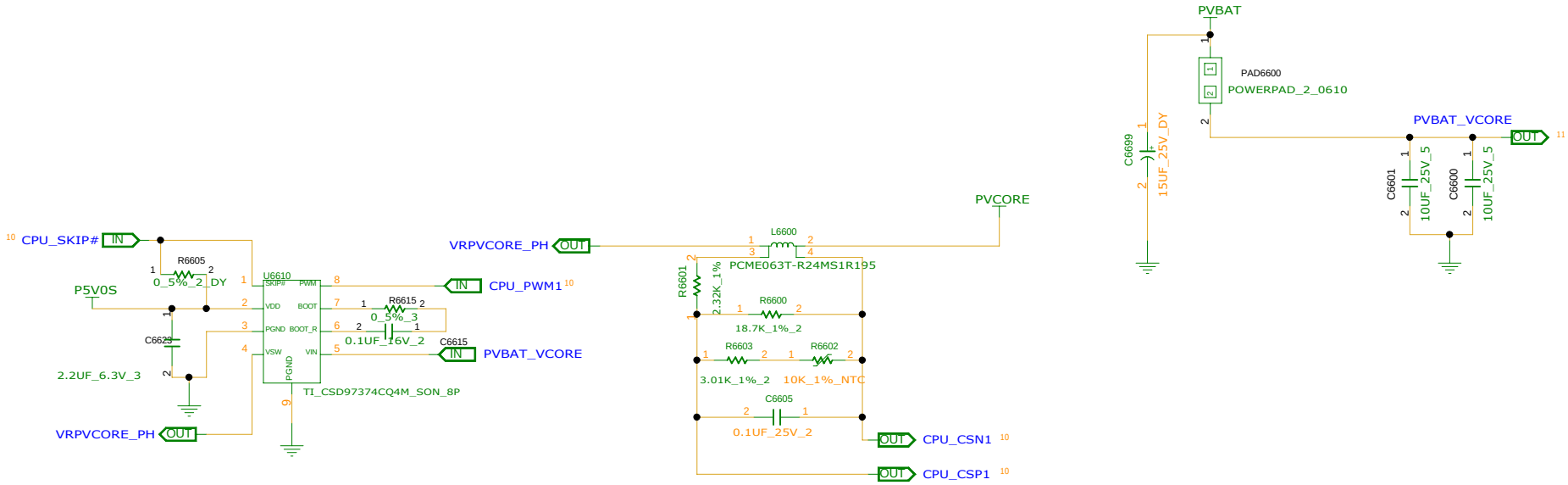

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TITLE: MODEL,PROJECT,FUNCTION Block Diagram			
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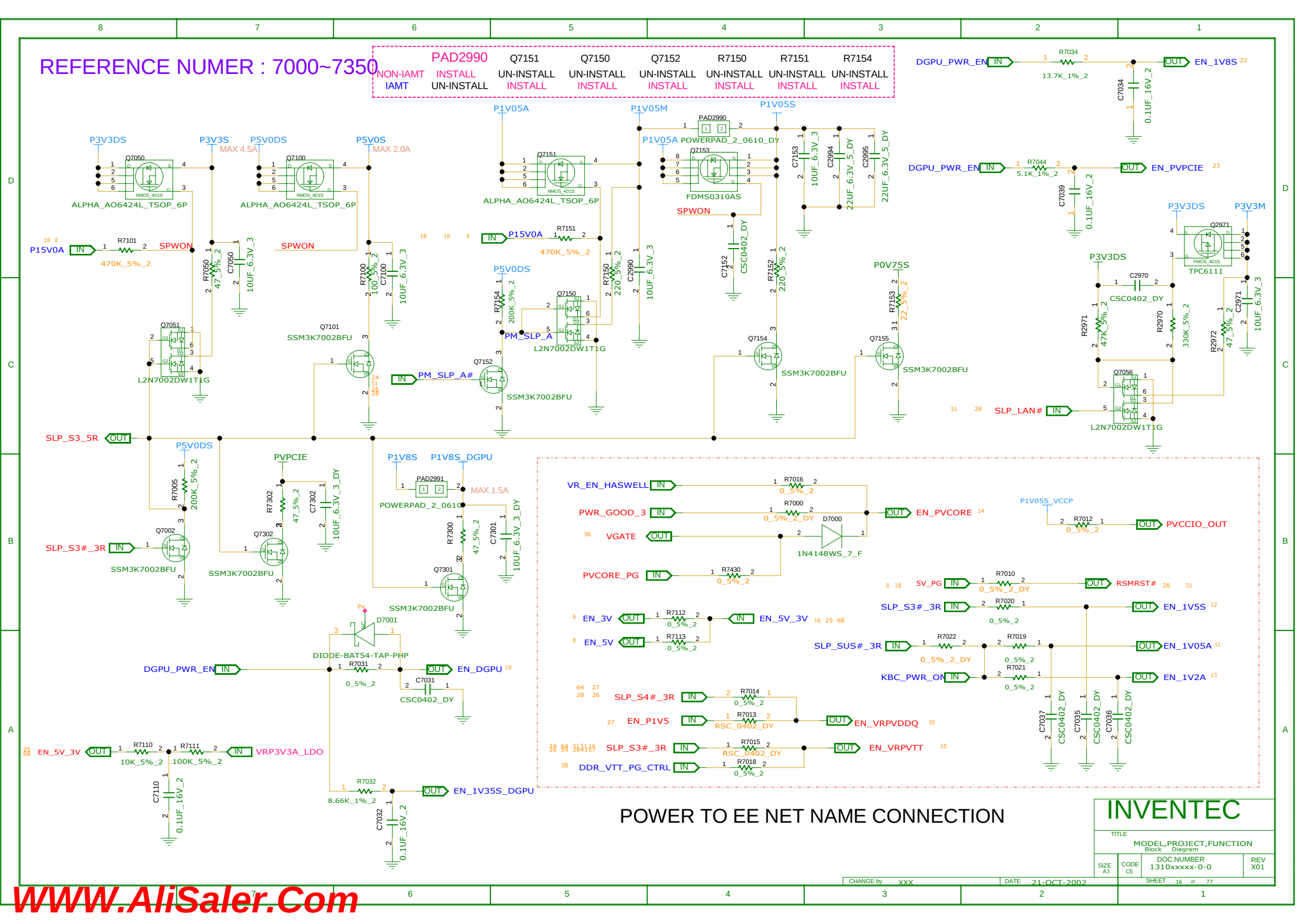
REFERENCE NUMER : 7000~7350
PAD2990 Q7151 Q7150 Q7152 R7150 R7151 R7154
NON-IAMT INSTALL UN-INSTALL UN-INSTALL UN-INSTALL UN-INSTALL UN-INSTALL UN-INSTALL
IAMT UN-INSTALL INSTALL INSTALL INSTALL INSTALL INSTALL INSTALL
P3V3DS P3V3S P5V0DS P5V0S P1V05A P1V05M P1V05S P0V75S
MAX 4.5A MAX 2.0A
ALPHA_AO6424L_TSOP_6P
FDMS0310AS
POWERPAD_2_0610_DY
SPWON
P15V0A
PM_SLP_A
PM_SLP_A#
L2N7002DW1T1G
SSM3K7002BFU
TPC6111
CSC0402_DY
SLP_S3_5R
SLP_S3#_3R
PVPCIE
P1V8S P1V8S_DGPU
MAX 1.5A
POWERPAD_2_0610
DIODE-BAT54-TAP-PHP
DGPU_PWR_EN
EN_DGPU
EN_5V_3V
VRP3V3A_LDO
EN_1V35S_DGPU
DGPU_PWR_EN
EN_1V8S
EN_PVPCIE
SLP_LAN#
VR_EN_HASWELL
PWR_GOOD_3
VGATE
PVCORE_PG
EN_PVCORE
1N4148WS_7_F
P1V05S_VCCP
PVCCIO_OUT
5V_PG
RSMRST#
SLP_S3#_3R
EN_1V5S
SLP_SUS#_3R
EN_1V05A
KBC_PWR_ON
EN_1V2A
EN_3V
EN_5V
EN_5V_3V
SLP_S4#_3R
EN_P1V5
EN_VRPVDDQ
SLP_S3#_3R
EN_VRPVTT
DDR_VTT_PG_CTRL
POWER TO EE NET NAME CONNECTION
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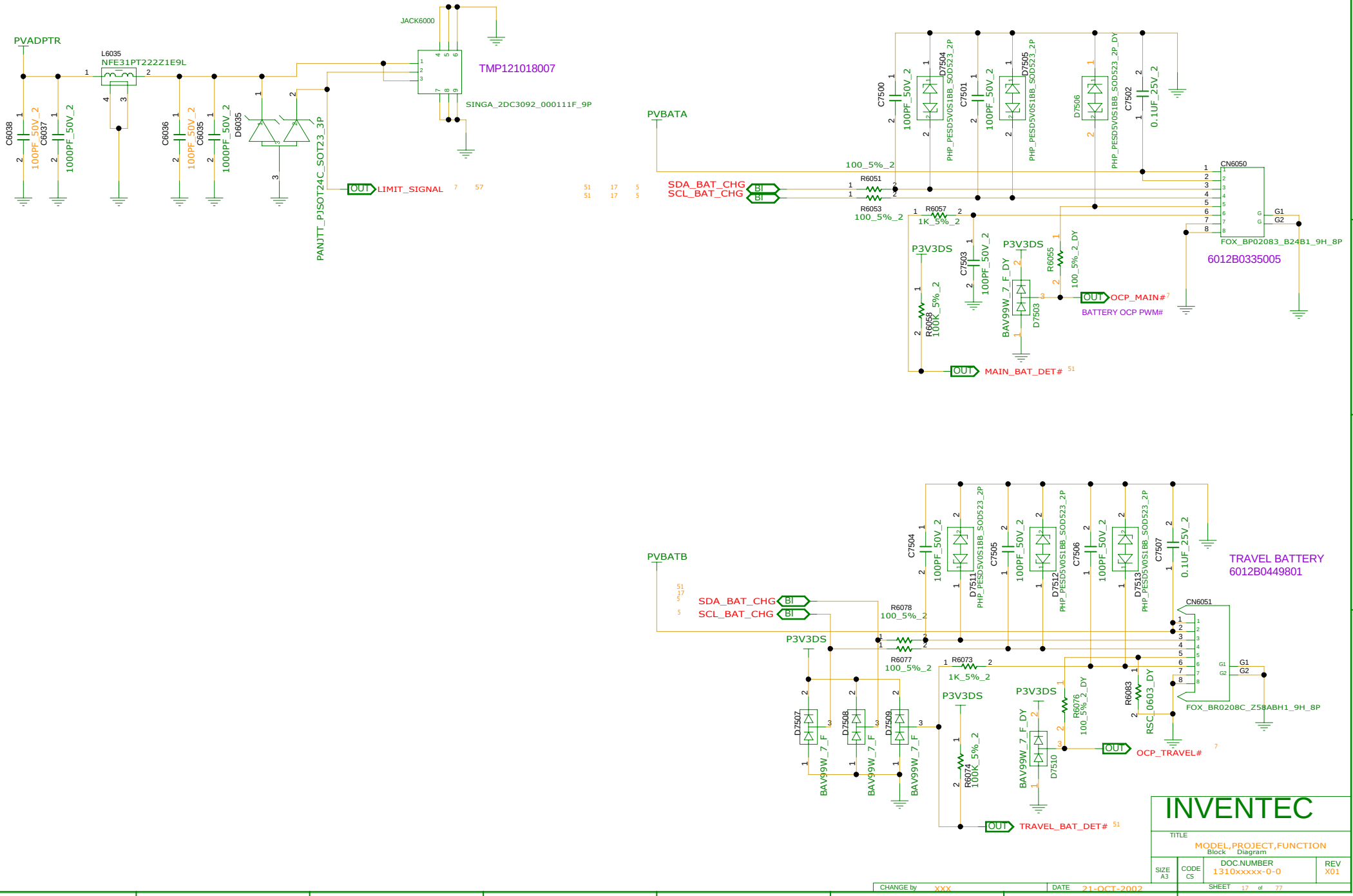
WWW.AliSaler.Com



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TITLE: MODEL,PROJECT,FUNCTION Block Diagram			
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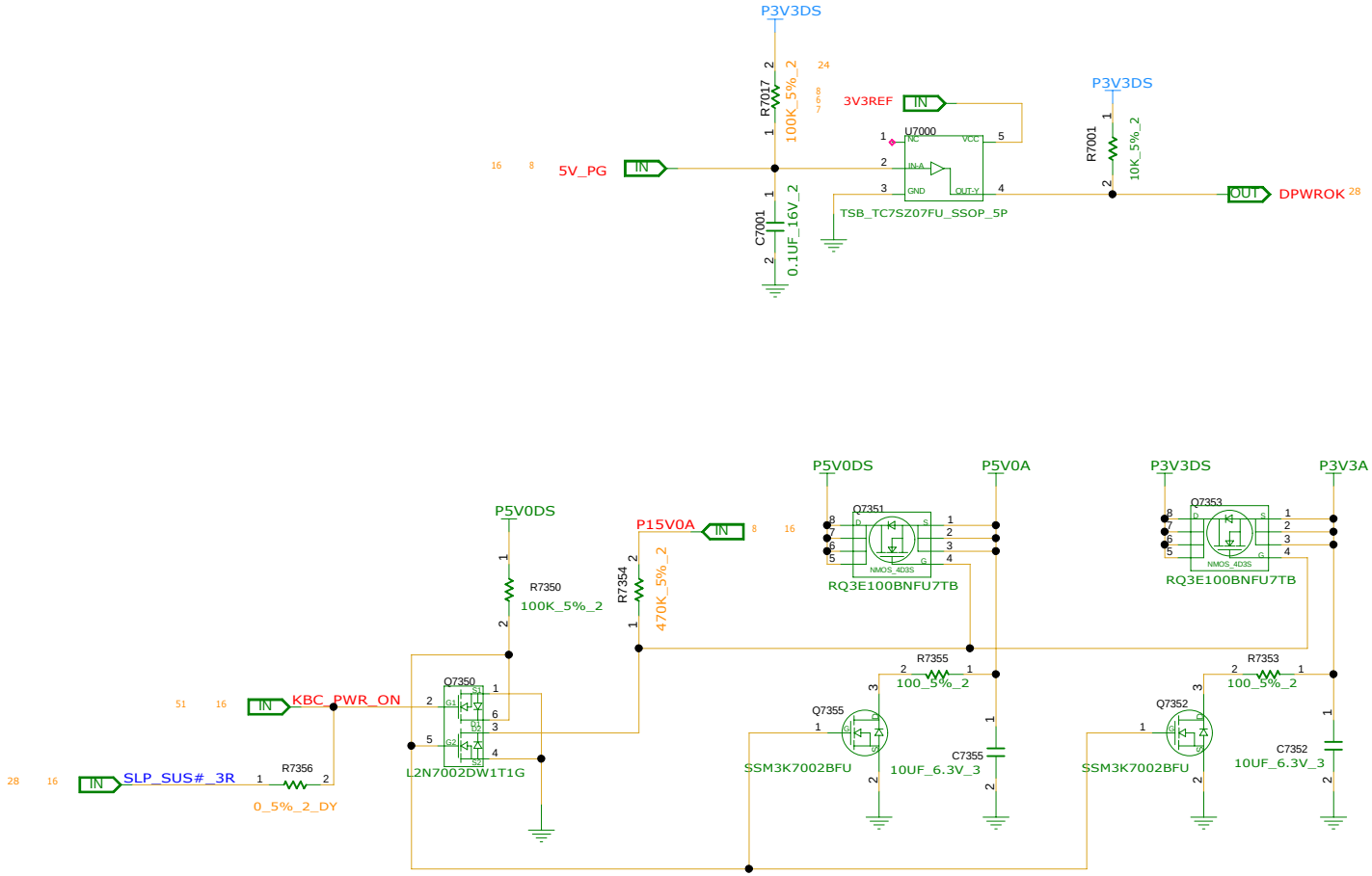

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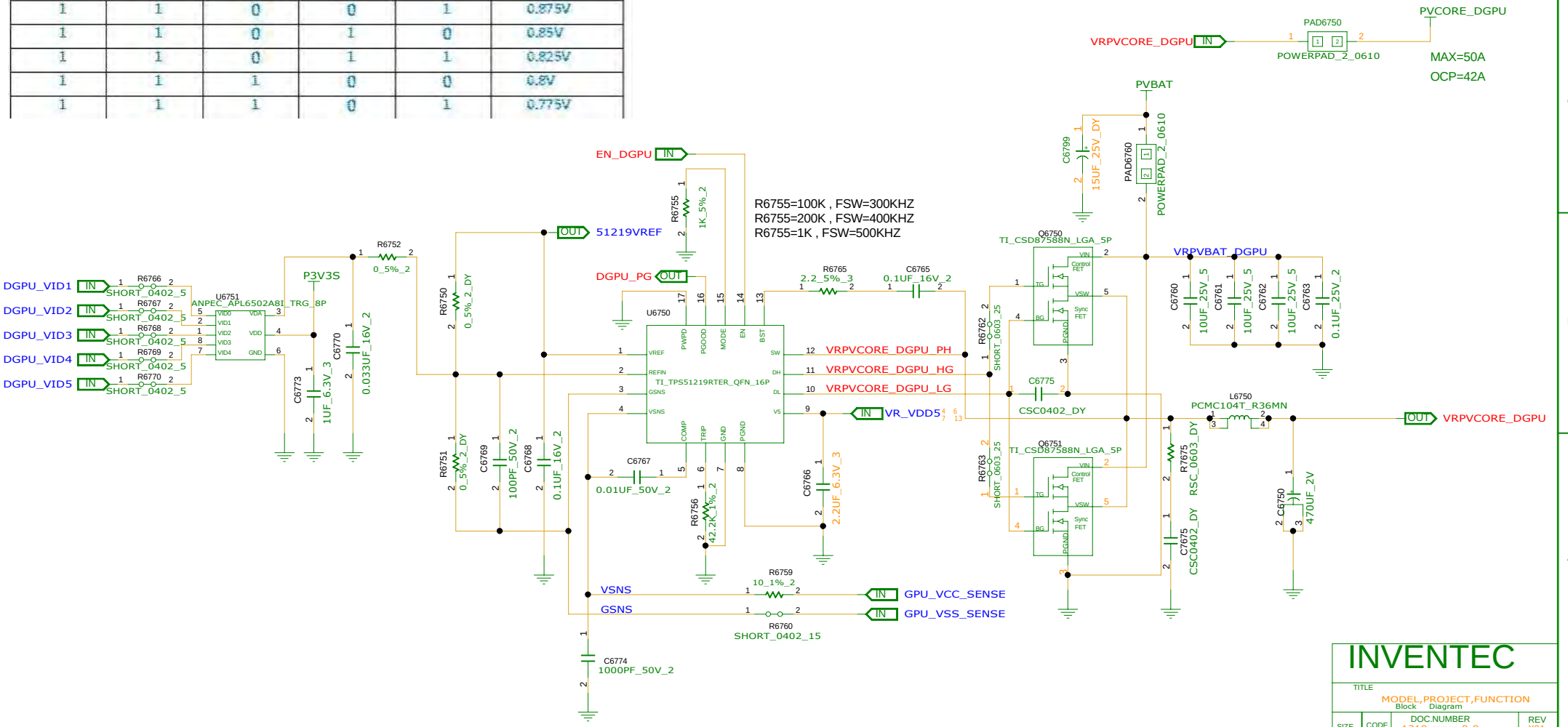
GPU_VID5 GPIO_10	GPU_VID4 GPIO_14	GPU_VID3 GPIO_15	GPU_VID2 GPIO_16	GPU_VID1 GPIO_20	Core Voltage Level
0	1	1	1	1	1.125V
1	0	0	0	0	1.1V
1	0	0	0	1	1.075V
1	0	0	1	0	1.05V
1	0	0	1	1	1.025V
1	0	1	0	0	1.0V
1	0	1	0	1	0.975V
1	0	1	1	0	0.95V
1	0	1	1	1	0.925V
1	1	0	0	0	0.9V
1	1	0	0	1	0.875V
1	1	0	1	0	0.85V
1	1	0	1	1	0.825V
1	1	1	0	0	0.8V
1	1	1	0	1	0.775V

	C6762	C6752	L6750	Q6751	R6756
17W	OPEN	OPEN	ETQP4LR36AFM 6014B0164501	OPEN	80.6K_1% 6013A0072901
25W	install	install	PCMC104T-R36MN 6014B0024003	install	42.2K_1% 6013A0017701



INVENTEC

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EMPTY

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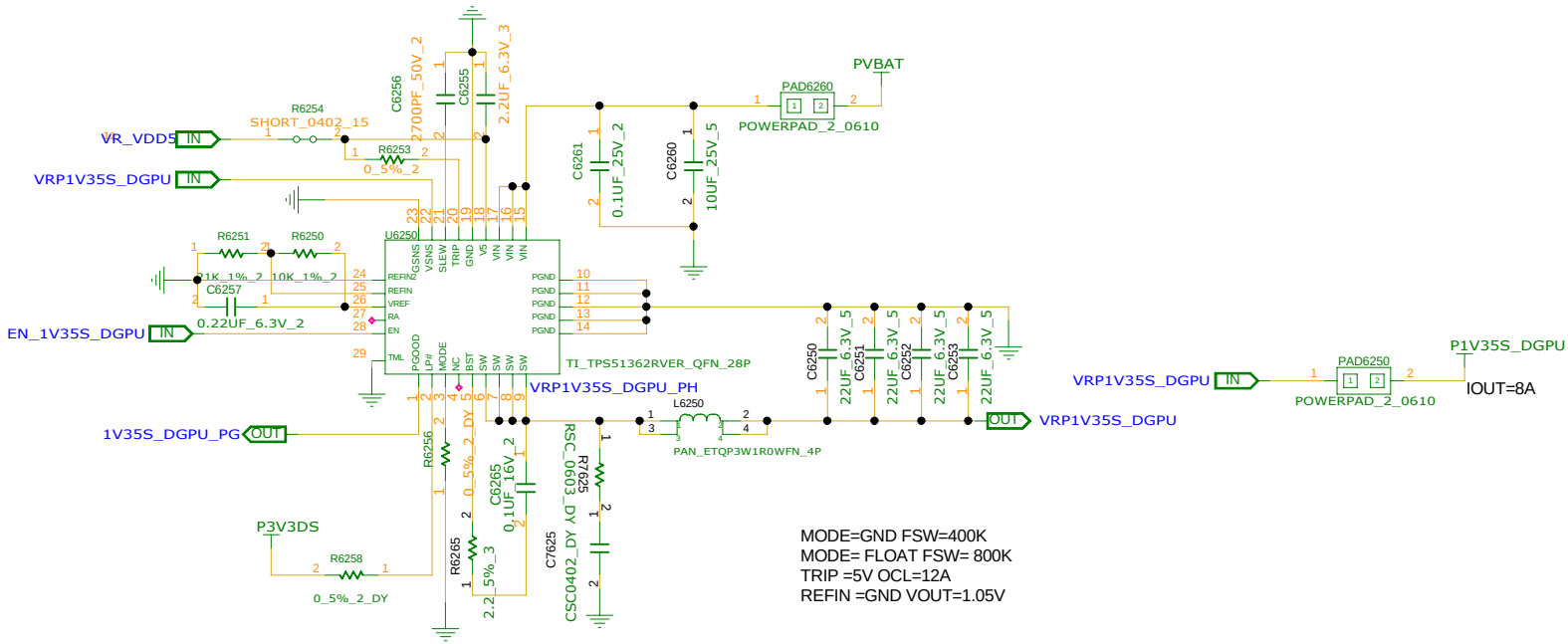

INVENTEC

TITLE: MODEL,PROJECT,FUNCTION
Block Diagram

SIZE	CODE	DOC.NUMBER	REV
A3	CS	1310xxxxx-0-0	X01

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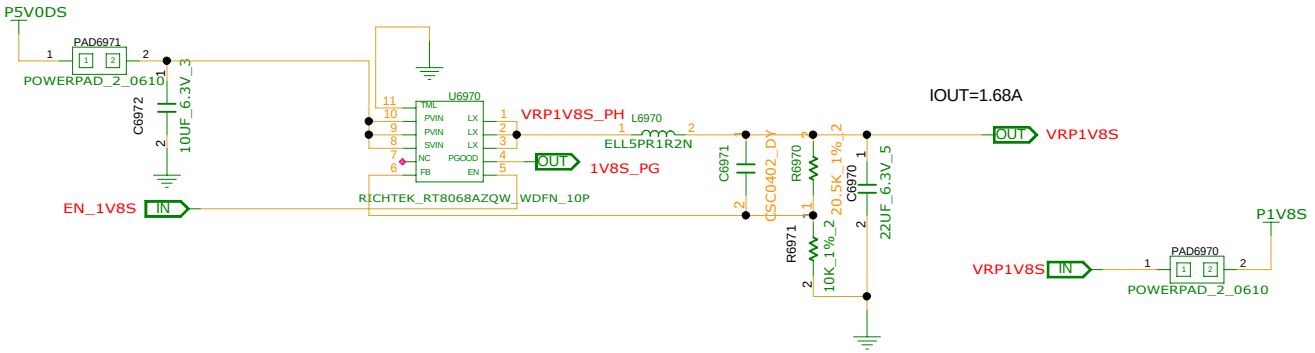

VREF=0.6V
15K=1.5V
10K=1.2V
20.5K=1.83V

MODE= FLOAT=SKIP MODE
MODE=VIN=FCCM MODE

INVENTEC

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SIZE	CODE	DOC.NUMBER	REV
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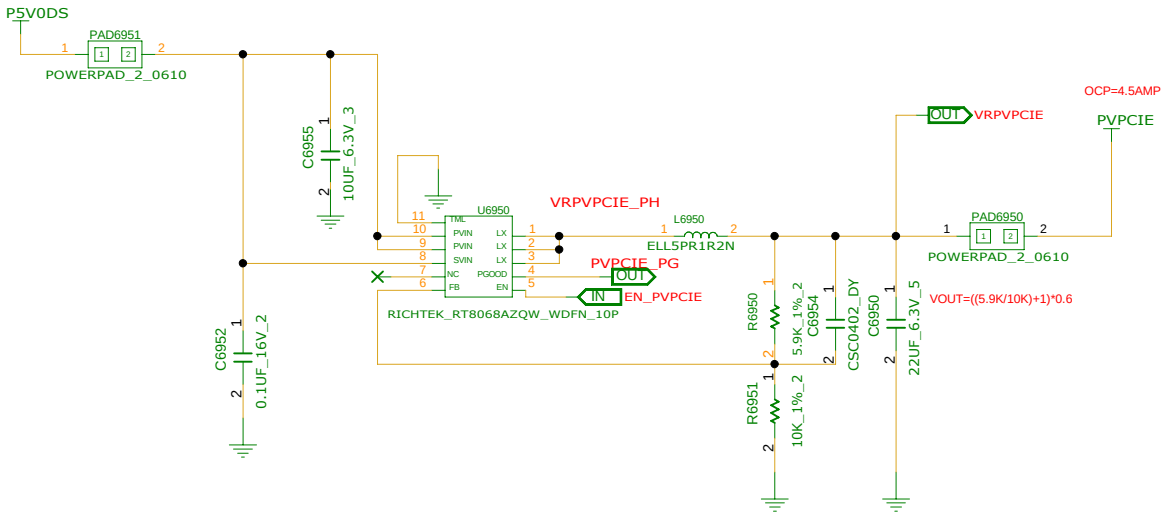

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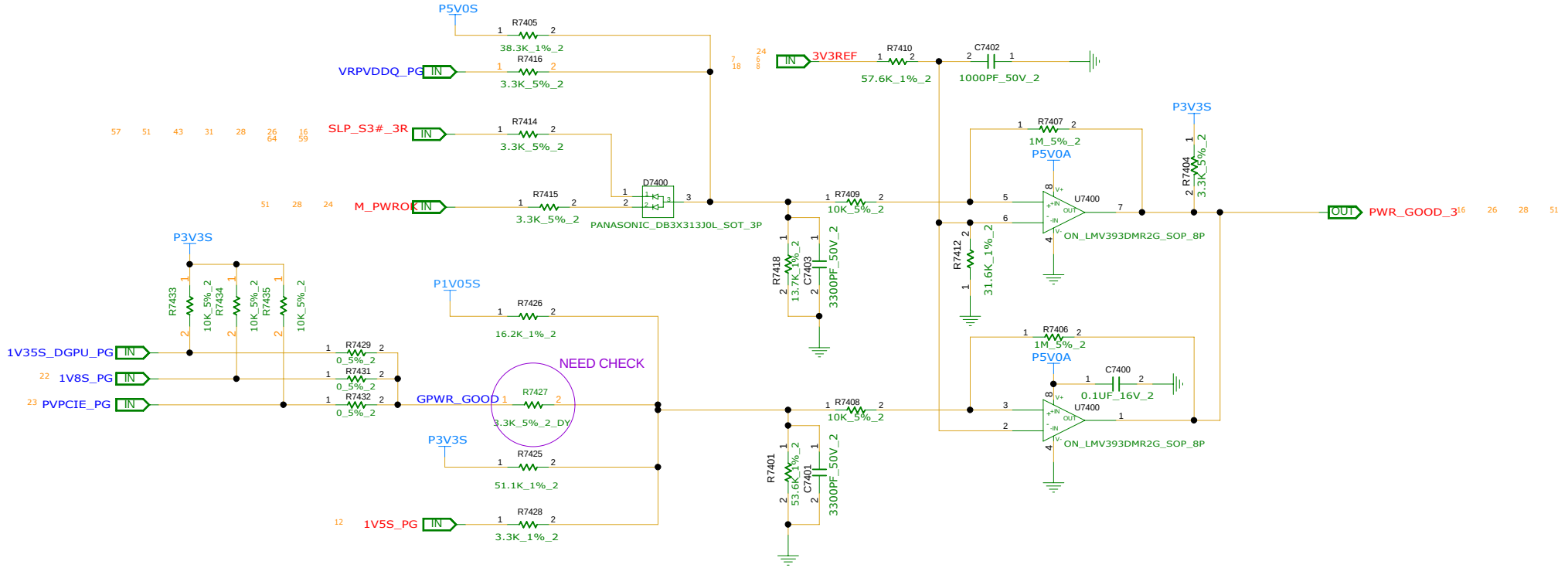
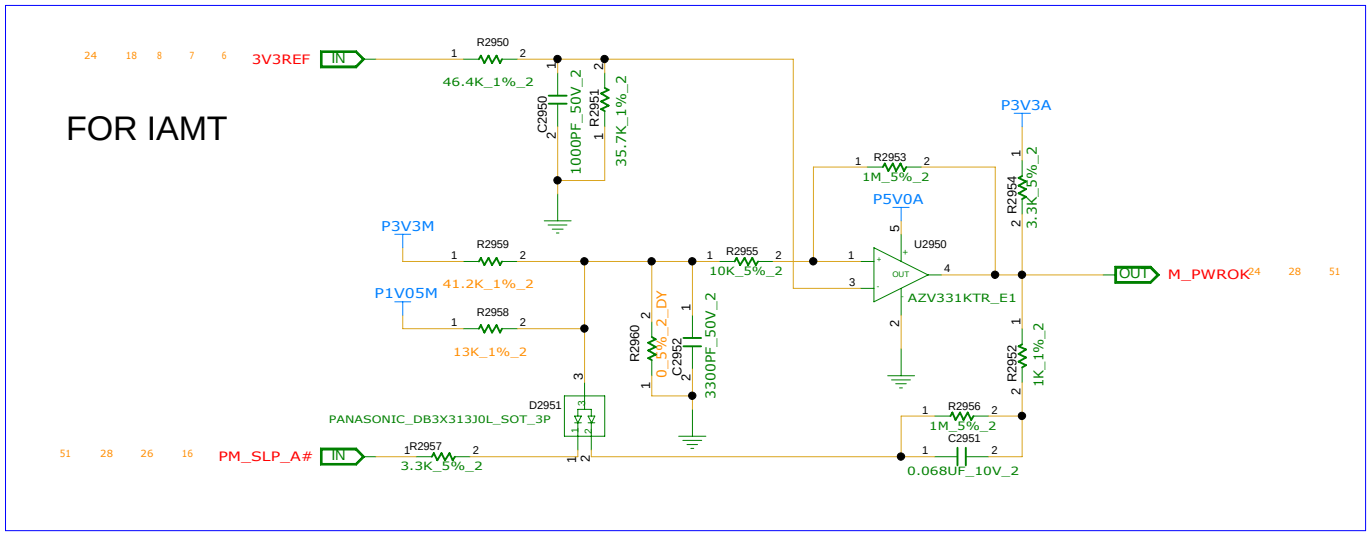
REFERENCE NUMER : 7400~7450





REFERENCE NUMER : 2950~2999

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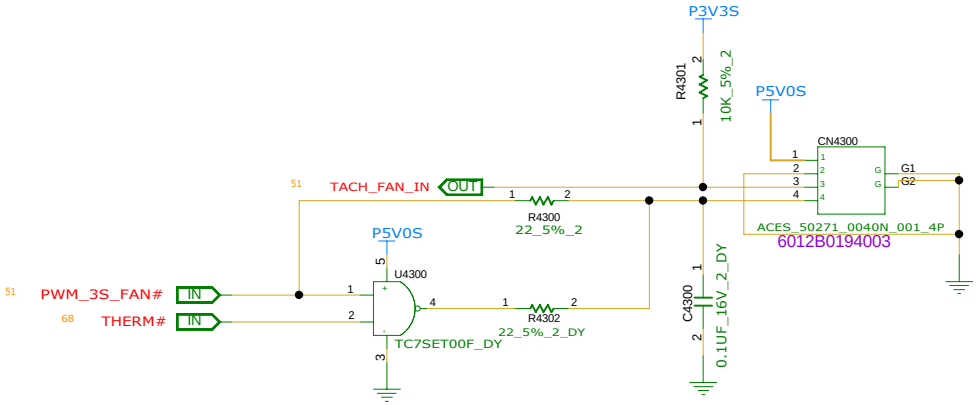
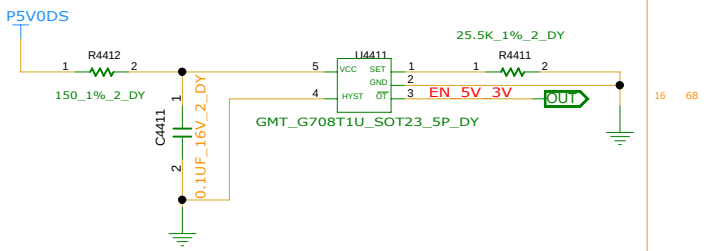
REFERENCE NUMBER:4400~4349



AMBIENT TEMP SENSE
WILL BE NOT USED IN 2013?



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

REFERENCE NUMBER:4411~4449

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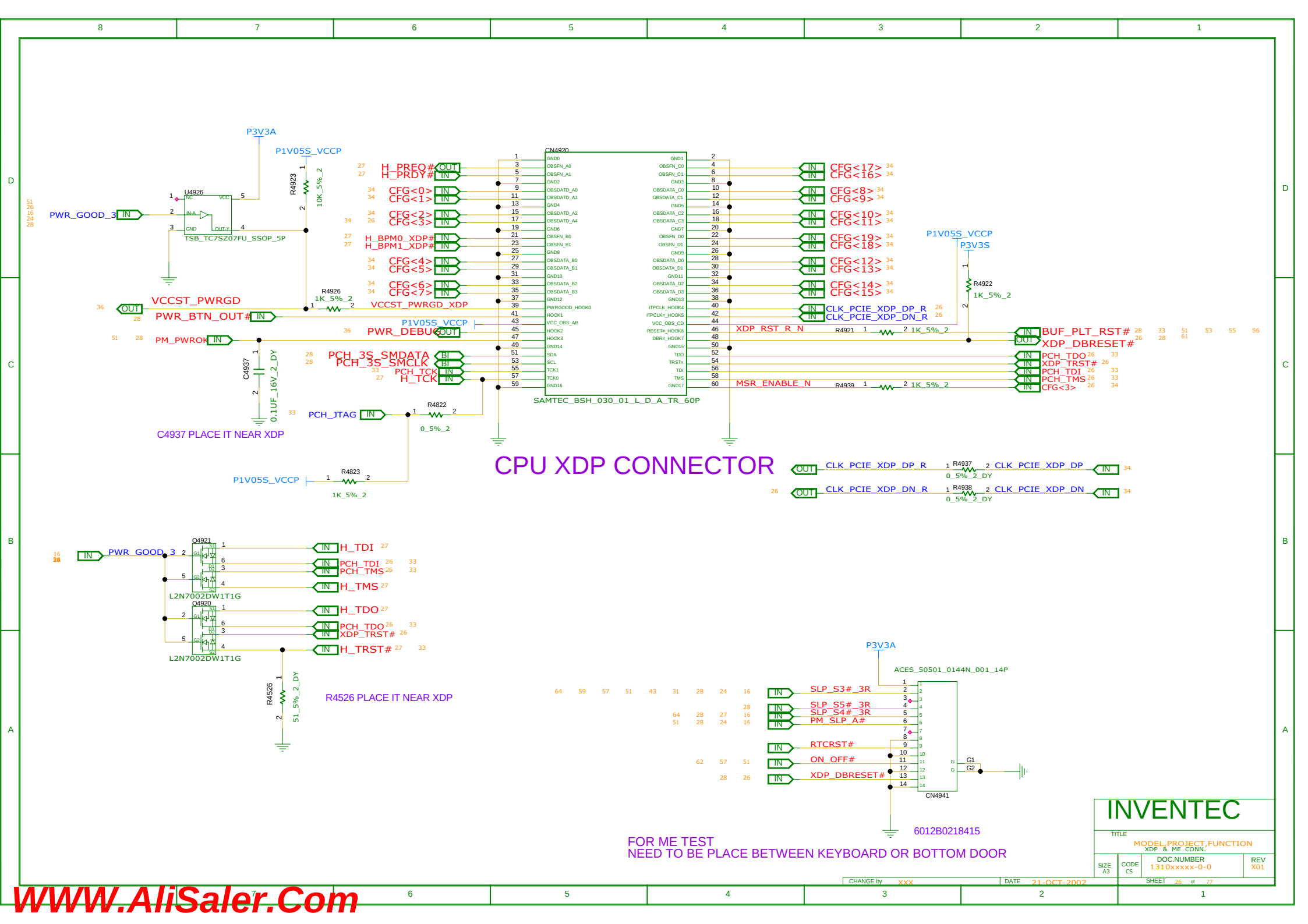
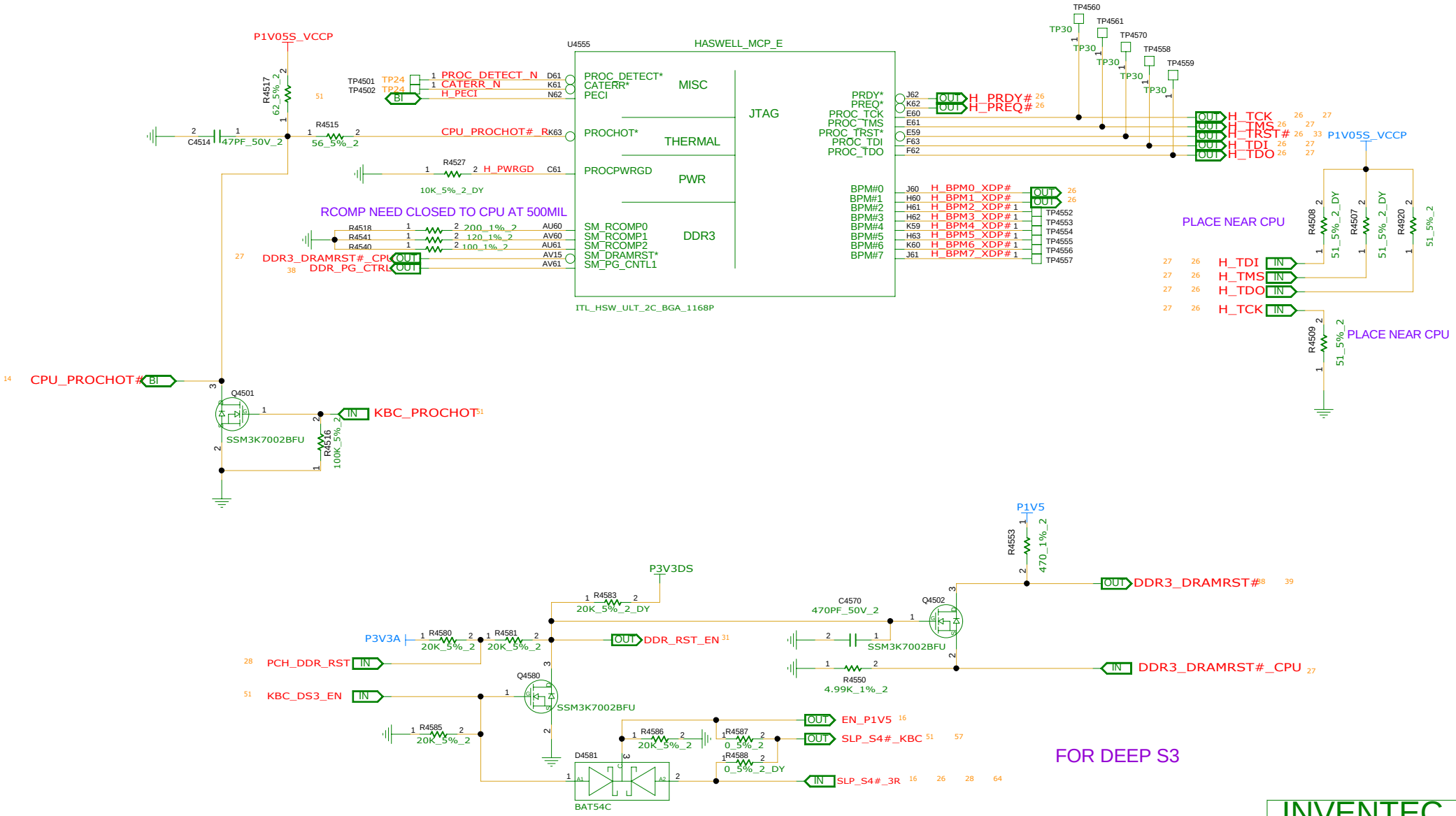
CHANGE by XXX	DATE 21-OCT-2002	SHEET 25 of 77	

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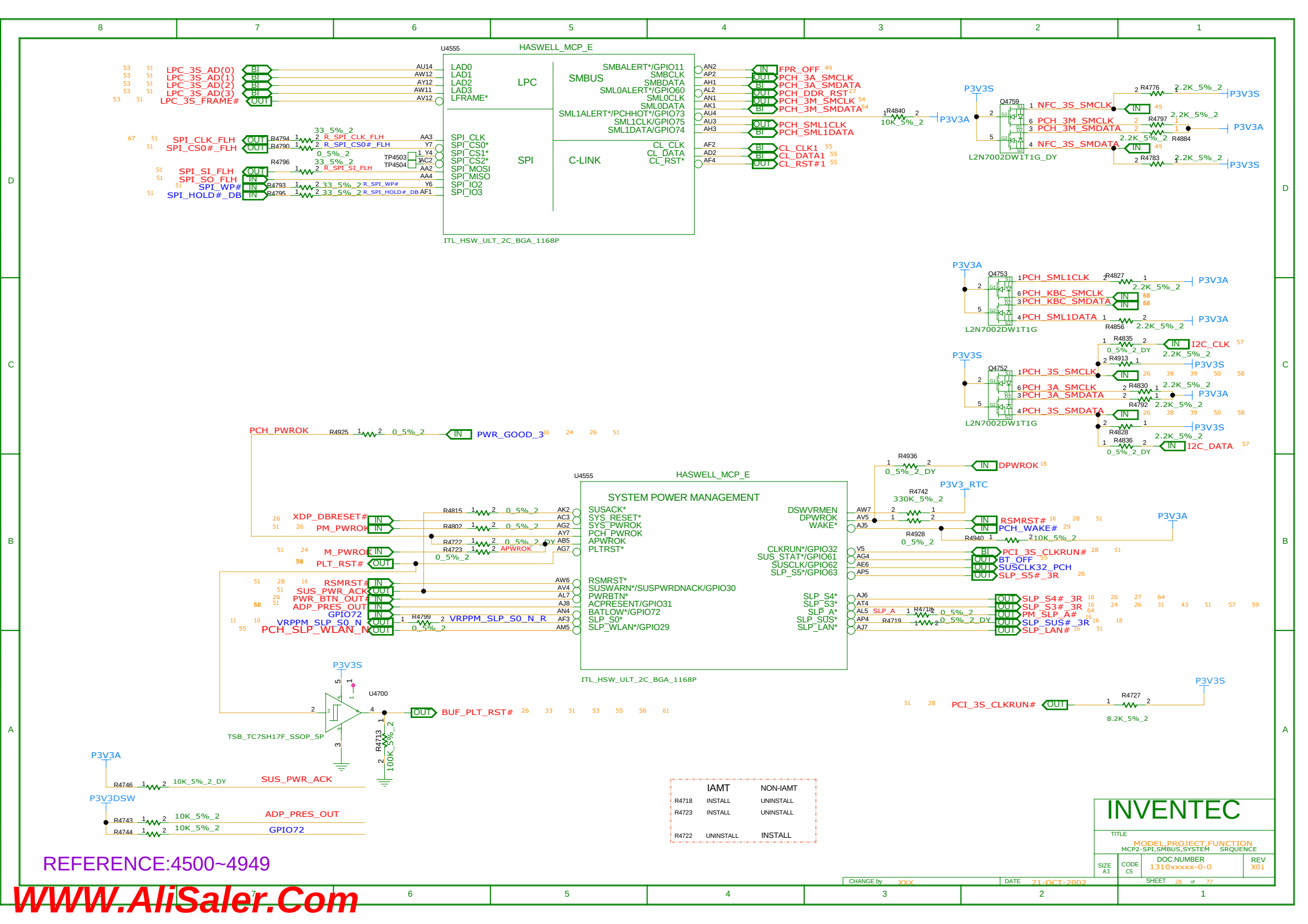
U4555
HASWELL_MCP_E
MISC
JTAG
THERMAL
PWR
DDR3
PROC_DETECT*
CATERR*
PECI
PROCHOT*
PROCPWRGD
SM_RCOMP0
SM_RCOMP1
SM_RCOMP2
SM_DRAMRST*
SM_PG_CNTL1
PRDY*
PREQ*
PROC_TCK
PROC_TMS
PROC_TRST*
PROC_TDI
PROC_TDO
BPM#0
BPM#1
BPM#2
BPM#3
BPM#4
BPM#5
BPM#6
BPM#7
ITL_HSW_ULT_2C_BGA_1168P
PROC_DETECT_N
CATERR_N
H_PECI
CPU_PROCHOT#_R
H_PWRGD
H_PRDY#
H_PREQ#
H_TCK
H_TMS
H_TRST#
H_TDI
H_TDO
H_BPM0_XDP#
H_BPM1_XDP#
H_BPM2_XDP#
H_BPM3_XDP#
H_BPM4_XDP#
H_BPM5_XDP#
H_BPM6_XDP#
H_BPM7_XDP#
RCOMP NEED CLOSED TO CPU AT 500MIL
DDR3_DRAMRST#_CPU
DDR_PG_CTRL
PLACE NEAR CPU
CPU_PROCHOT#
KBC_PROCHOT
SSM3K7002BFU
P3V3DS
P3V3A
P1V5
PCH_DDR_RST
KBC_DS3_EN
DDR_RST_EN
DDR3_DRAMRST#
DDR3_DRAMRST#_CPU
EN_P1V5
SLP_S4#_KBC
SLP_S4#_3R
BAT54C
FOR DEEP S3
REFERENCE:4500~4949
INVENTEC
TITLE
MODEL,PROJECT,FUNCTION
MCP1-MISC
SIZE A3
CODE CS
DOC.NUMBER 1310xxxxx-0-0
REV X01
CHANGE by XXX
DATE 21-OCT-2002
SHEET 27 of 77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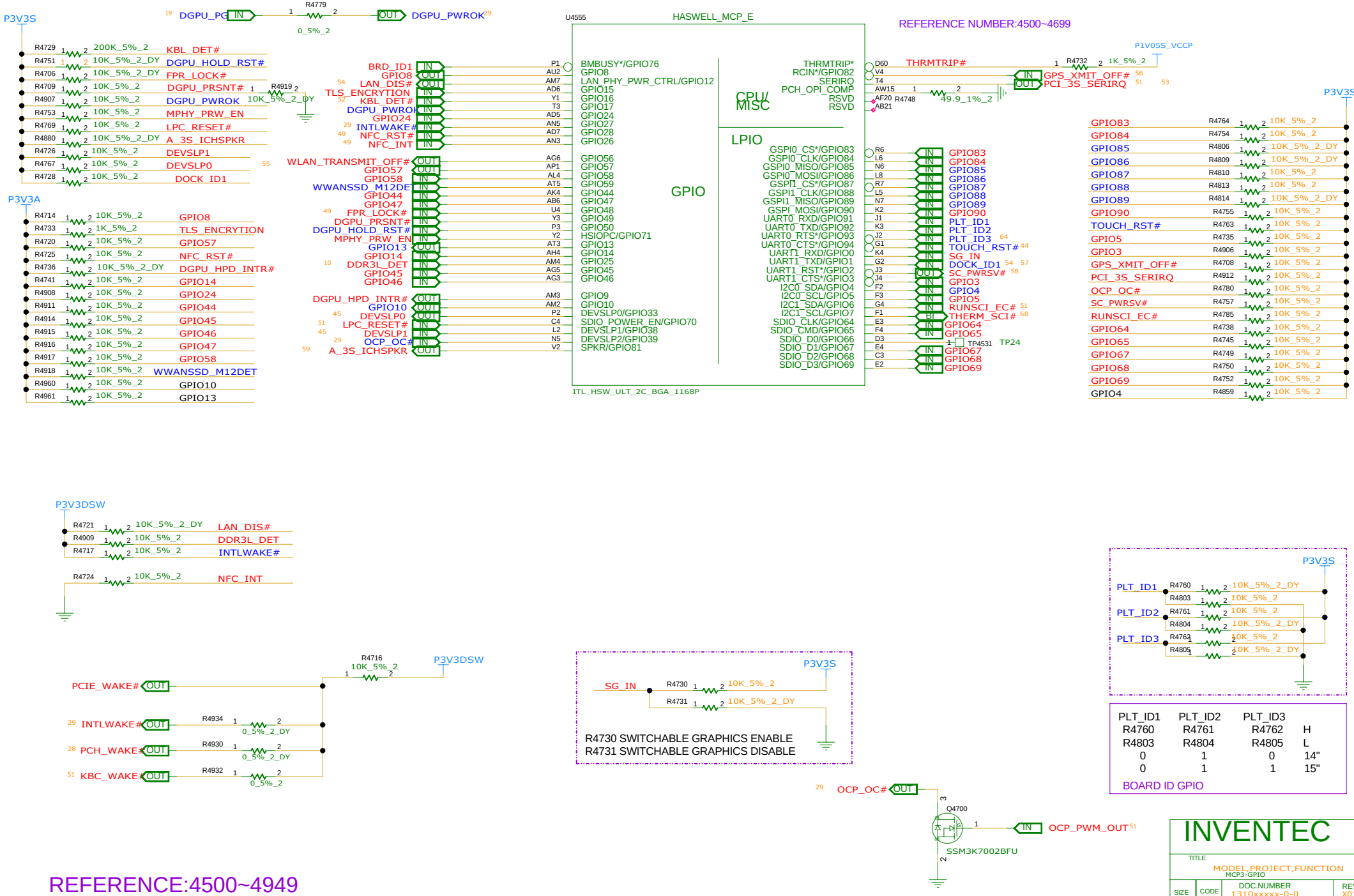
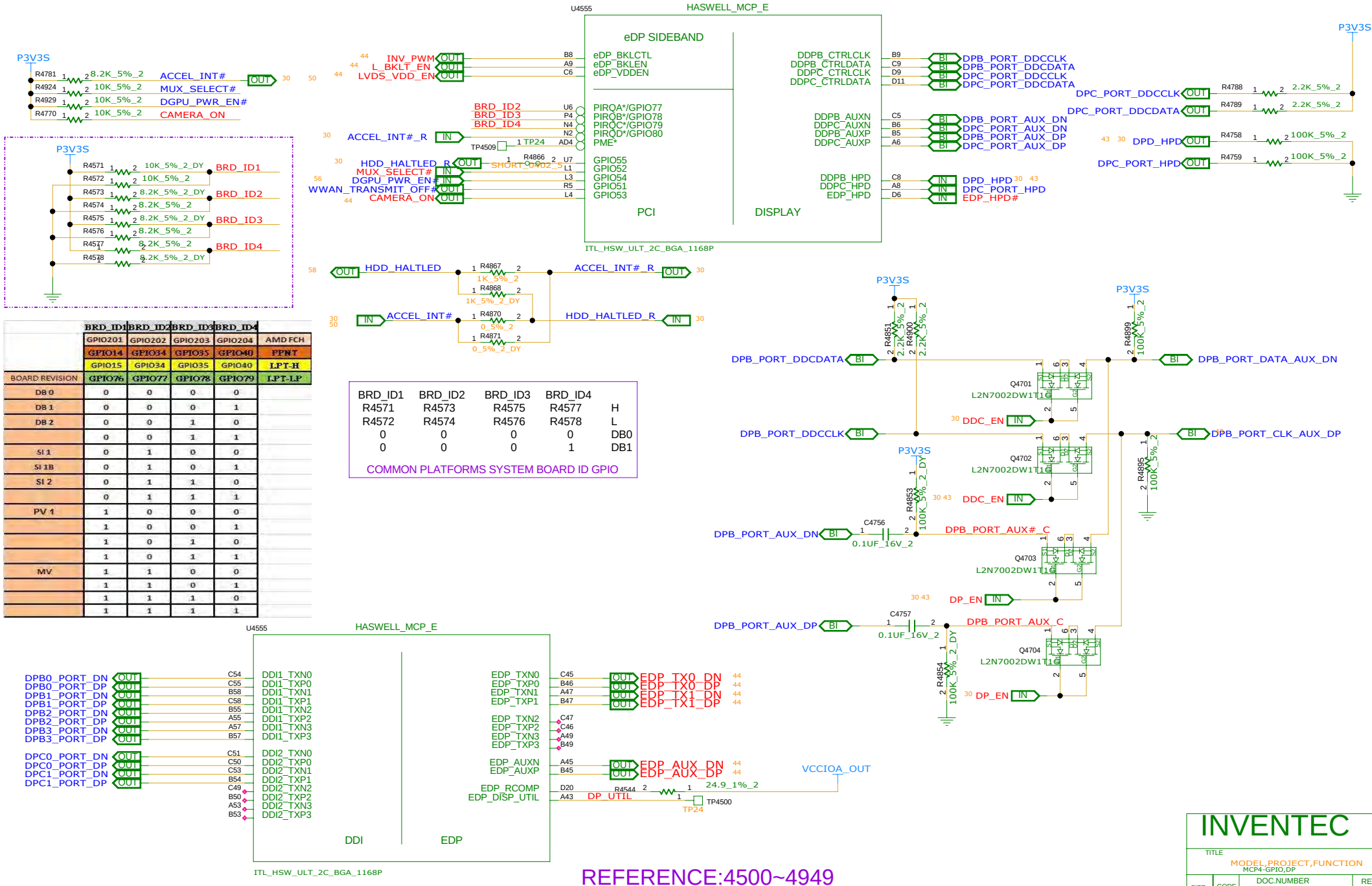
LPC_3S_AD(1)
LPC_3S_AD(2)
LPC_3S_AD(3)
LPC_3S_FRAME#
LAD0
LAD1
LAD2
LAD3
LFRAME*
LPC
SMBUS
SMBALERT*/GPIO11
SMBCLK
SMBDATA
SML0ALERT*/GPIO60
SML0CLK
SML0DATA
SML1ALERT*/PCHHOT*/GPIO73
SML1CLK/GPIO75
SML1DATA/GPIO74
FPR_OFF
PCH_3A_SMCLK
PCH_3A_SMDATA
PCH_DDR_RST
PCH_3M_SMCLK
PCH_3M_SMDATA
PCH_SML1CLK
PCH_SML1DATA
SPI_CLK_FLH
SPI_CS0#_FLH
SPI_SI_FLH
SPI_SO_FLH
SPI_WP#
SPI_HOLD#_DB
SPI_CLK
SPI_CS0*
SPI_CS1*
SPI_CS2*
SPI_MOSI
SPI_MISO
SPI_IO2
SPI_IO3
SPI
C-LINK
CL_CLK
CL_DATA
CL_RST*
CL_CLK1
CL_DATA1
CL_RST#1
ITL_HSW_ULT_2C_BGA_1168P
P3V3A
P3V3S
L2N7002DW1T1G_DY
NFC_3S_SMCLK
NFC_3S_SMDATA
PCH_3M_SMCLK
PCH_3M_SMDATA
L2N7002DW1T1G
PCH_SML1CLK
PCH_KBC_SMCLK
PCH_KBC_SMDATA
PCH_SML1DATA
I2C_CLK
I2C_DATA
PCH_3S_SMCLK
PCH_3S_SMDATA
PCH_3A_SMCLK
PCH_3A_SMDATA
PCH_PWROK
PWR_GOOD_3
DPWROK
P3V3_RTC
SYSTEM POWER MANAGEMENT
SUSACK*
SYS_RESET*
SYS_PWROK
PCH_PWROK
APWROK
PLTRST*
DSWVRMEN
DPWROK
WAKE*
RSMRST#
PCH_WAKE#
CLKRUN*/GPIO32
SUS_STAT*/GPIO61
SUSCLK/GPIO62
SLP_S5*/GPIO63
PCI_3S_CLKRUN#
BT_OFF
SUSCLK32_PCH
SLP_S5#_3R
RSMRST*
SUSWARN*/SUSPWRDNACK/GPIO30
PWRBTN*
ACPRESENT/GPIO31
BATLOW*/GPIO72
SLP_S0*
SLP_WLAN*/GPIO29
SLP_S4*
SLP_S3*
SLP_A*
SLP_SUS*
SLP_LAN*
SLP_S4#_3R
SLP_S3#_3R
PM_SLP_A#
SLP_SUS#_3R
SLP_LAN#
XDP_DBRESET#
PM_PWROK
M_PWROK
PLT_RST#
RSMRST#
SUS_PWR_ACK
PWR_BTN_OUT#
ADP_PRES_OUT
GPIO72
VRPPM_SLP_S0_N
PCH_SLP_WLAN_N
VRPPM_SLP_S0_N_R
U4700
TSB_TC7SH17F_SSOP_5P
BUF_PLT_RST#
SUS_PWR_ACK
ADP_PRES_OUT
GPIO72
P3V3DSW
IAMT
NON-IAMT
R4718 INSTALL UNINSTALL
R4723 INSTALL UNINSTALL
R4722 UNINSTALL INSTALL
INVENTEC
TITLE
MODEL,PROJECT,FUNCTION
MCP2-SPI,SMBUS,SYSTEM SRQUENCE
SIZE A3
CODE CS
DOC.NUMBER 1310xxxxx-0-0
REV X01
CHANGE by XXX
DATE 21-OCT-2002
SHEET 28 of 77
REFERENCE:4500~4949
WWW.AliSaler.Com


P3V3S
R4729 200K_5%_2 KBL_DET#
R4751 10K_5%_2_DY DGPU_HOLD_RST#
R4706 10K_5%_2_DY FPR_LOCK#
R4709 10K_5%_2 DGPU_PRSNT#
R4907 10K_5%_2 DGPU_PWROK
R4753 10K_5%_2 MPHY_PRW_EN
R4769 10K_5%_2 LPC_RESET#
R4880 10K_5%_2_DY A_3S_ICHSPKR
R4726 10K_5%_2 DEVSLP1
R4767 10K_5%_2 DEVSLP0
R4728 10K_5%_2 DOCK_ID1
P3V3A
R4714 10K_5%_2 GPIO8
R4733 1K_5%_2 TLS_ENCRYTION
R4720 10K_5%_2 GPIO57
R4725 10K_5%_2 NFC_RST#
R4736 10K_5%_2_DY DGPU_HPD_INTR#
R4741 10K_5%_2 GPIO14
R4908 10K_5%_2 GPIO24
R4911 10K_5%_2 GPIO44
R4914 10K_5%_2 GPIO45
R4915 10K_5%_2 GPIO46
R4916 10K_5%_2 GPIO47
R4917 10K_5%_2 GPIO58
R4918 10K_5%_2 WWANSSD_M12DET
R4960 10K_5%_2 GPIO10
R4961 10K_5%_2 GPIO13
19 DGPU_PG IN
R4779 0_5%_2
OUT DGPU_PWROK 29
R4919 10K_5%_2_DY
BRD_ID1 IN
GPIO8 OUT
54 LAN_DIS# OUT
TLS_ENCRYTION IN
52 KBL_DET# IN
DGPU_PWROK IN
GPIO24 IN
29 INTLWAKE# IN
49 NFC_RST# IN
49 NFC_INT IN
55 WLAN_TRANSMIT_OFF# OUT
GPIO57 OUT
GPIO58 IN
WWANSSD_M12DET IN
GPIO44 IN
GPIO47 IN
49 FPR_LOCK# IN
DGPU_PRSNT# IN
DGPU_HOLD_RST# IN
MPHY_PRW_EN IN
GPIO13 OUT
GPIO14 IN
10 DDR3L_DET IN
GPIO45 IN
GPIO46 IN
DGPU_HPD_INTR# OUT
GPIO10 OUT
45 DEVSLP0 OUT
51 LPC_RESET# IN
45 DEVSLP1 IN
29 OCP_OC# IN
59 A_3S_ICHSPKR OUT
U4555
HASWELL_MCP_E
P1 BMBUSY*/GPIO76
AU2 GPIO8
AM7 LAN_PHY_PWR_CTRL/GPIO12
AD6 GPIO15
Y1 GPIO16
T3 GPIO17
AD5 GPIO24
AN5 GPIO27
AD7 GPIO28
AN3 GPIO26
AG6 GPIO56
AP1 GPIO57
AL4 GPIO58
AT5 GPIO59
AK4 GPIO44
AB6 GPIO47
U4 GPIO48
Y3 GPIO49
P3 GPIO50
Y2 HSIOPC/GPIO71
AT3 GPIO13
AH4 GPIO14
AM4 GPIO25
AG5 GPIO45
AG3 GPIO46
AM3 GPIO9
AM2 GPIO10
P2 DEVSLP0/GPIO33
C4 SDIO_POWER_EN/GPIO70
L2 DEVSLP1/GPIO38
N5 DEVSLP2/GPIO39
V2 SPKR/GPIO81
GPIO
CPU/MISC
THRMTRIP* D60
RCIN*/GPIO82 V4
SERIRQ T4
PCH_OPI_COMP AW15
RSVD AF20
RSVD AB21
LPIO
GSPI0_CS*/GPIO83 R6
GSPI0_CLK/GPIO84 L6
GSPI0_MISO/GPIO85 N6
GSPI0_MOSI/GPIO86 L8
GSPI1_CS*/GPIO87 R7
GSPI1_CLK/GPIO88 L5
GSPI1_MISO/GPIO89 N7
GSPI1_MOSI/GPIO90 K2
UART0_RXD/GPIO91 J1
UART0_TXD/GPIO92 K3
UART0_RTS*/GPIO93 J2
UART0_CTS*/GPIO94 G1
UART1_RXD/GPIO0 K4
UART1_TXD/GPIO1 G2
UART1_RST*/GPIO2 J3
UART1_CTS*/GPIO3 J4
I2C0_SDA/GPIO4 F2
I2C0_SCL/GPIO5 F3
I2C1_SDA/GPIO6 G4
I2C1_SCL/GPIO7 F1
SDIO_CLK/GPIO64 E3
SDIO_CMD/GPIO65 F4
SDIO_D0/GPIO66 D3
SDIO_D1/GPIO67 E4
SDIO_D2/GPIO68 C3
SDIO_D3/GPIO69 E2
ITL_HSW_ULT_2C_BGA_1168P
REFERENCE NUMBER:4500~4699
P1V05S_VCCP
THRMTRIP# R4732 1K_5%_2
GPS_XMIT_OFF# 56
PCI_3S_SERIRQ 51 53
R4748 49.9_1%_2
GPIO83 IN
GPIO84 IN
GPIO85 IN
GPIO86 IN
GPIO87 IN
GPIO88 IN
GPIO89 IN
GPIO90 IN
PLT_ID1 IN
PLT_ID2 IN
PLT_ID3 64
TOUCH_RST# 44
SG_IN
DOCK_ID1 54 57
SC_PWRSV# 58 OUT
GPIO3 IN
GPIO4 IN
GPIO5 IN
RUNSCI_EC# 51 IN
THERM_SCI# 68 BI
GPIO64 IN
GPIO65 IN
TP4531 TP24
GPIO67 IN
GPIO68 IN
GPIO69 IN
P3V3S
GPIO83 R4764 10K_5%_2
GPIO84 R4754 10K_5%_2
GPIO85 R4806 10K_5%_2_DY
GPIO86 R4809 10K_5%_2_DY
GPIO87 R4810 10K_5%_2
GPIO88 R4813 10K_5%_2
GPIO89 R4814 10K_5%_2_DY
GPIO90 R4755 10K_5%_2
TOUCH_RST# R4763 10K_5%_2
GPIO5 R4735 10K_5%_2
GPIO3 R4906 10K_5%_2
GPS_XMIT_OFF# R4708 10K_5%_2
PCI_3S_SERIRQ R4912 10K_5%_2
OCP_OC# R4780 10K_5%_2
SC_PWRSV# R4757 10K_5%_2
RUNSCI_EC# R4785 10K_5%_2
GPIO64 R4738 10K_5%_2
GPIO65 R4745 10K_5%_2
GPIO67 R4749 10K_5%_2
GPIO68 R4750 10K_5%_2
GPIO69 R4752 10K_5%_2
GPIO4 R4859 10K_5%_2
P3V3DSW
R4721 10K_5%_2_DY LAN_DIS#
R4909 10K_5%_2 DDR3L_DET
R4717 10K_5%_2 INTLWAKE#
R4724 10K_5%_2 NFC_INT
R4716 10K_5%_2
P3V3DSW
PCIE_WAKE# OUT
29 INTLWAKE# OUT R4934 0_5%_2_DY
28 PCH_WAKE# OUT R4930 0_5%_2_DY
51 KBC_WAKE# OUT R4932 0_5%_2
P3V3S
SG_IN
R4730 10K_5%_2
R4731 10K_5%_2_DY
R4730 SWITCHABLE GRAPHICS ENABLE
R4731 SWITCHABLE GRAPHICS DISABLE
P3V3S
PLT_ID1 R4760 10K_5%_2_DY R4803 10K_5%_2
PLT_ID2 R4761 10K_5%_2 R4804 10K_5%_2_DY
PLT_ID3 R4762 10K_5%_2 R4805 10K_5%_2_DY
PLT_ID1 PLT_ID2 PLT_ID3
R4760 R4761 R4762 H
R4803 R4804 R4805 L
0 1 0 14"
0 1 1 15"
BOARD ID GPIO
29 OCP_OC# OUT
Q4700
SSM3K7002BFU
IN OCP_PWM_OUT 51
REFERENCE:4500~4949
INVENTEC
TITLE
MODEL,PROJECT,FUNCTION
MCP3-GPIO
SIZE A3
CODE CS
DOC.NUMBER 1310xxxxx-0-0
REV X01
CHANGE by XXX
DATE 21-OCT-2002
SHEET 29 of 77



BRD_ID1	BRD_ID2	BRD_ID3	BRD_ID4	
R4571	R4573	R4575	R4577	H
R4572	R4574	R4576	R4578	L
0	0	0	0	DB0
0	0	0	1	DB1

COMMON PLATFORMS SYSTEM BOARD ID GPIO

	BRD_ID1	BRD_ID2	BRD_ID3	BRD_ID4	
	GPIO201	GPIO202	GPIO203	GPIO204	AMD FCH
	GPIO14	GPIO34	GPIO35	GPIO40	FPNT
	GPIO15	GPIO34	GPIO35	GPIO40	LPT-H
BOARD REVISION	GPIO76	GPIO77	GPIO78	GPIO79	LPT-LP
DB 0	0	0	0	0	
DB 1	0	0	0	1	
DB 2	0	0	1	0	
	0	0	1	1	
SI 1	0	1	0	0	
SI 1B	0	1	0	1	
SI 2	0	1	1	0	
	0	1	1	1	
PV 1	1	0	0	0	
	1	0	0	1	
	1	0	1	0	
	1	0	1	1	
MV	1	1	0	0	
	1	1	0	1	
	1	1	1	0	
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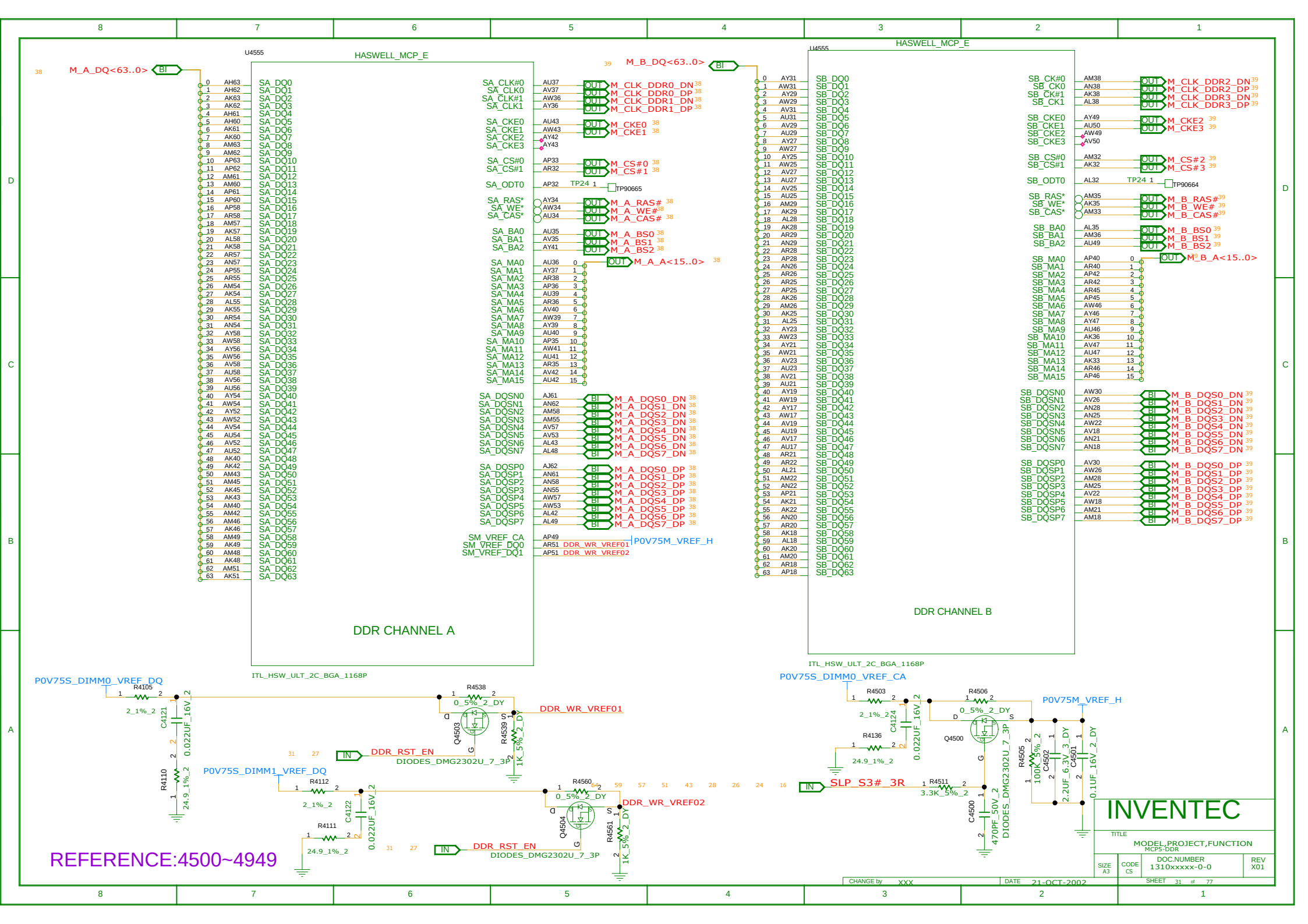
REFERENCE:4500~4949

CHANGE by	XXX	DATE	21-OCT-2002	
SIZE A3	CODE CS	DOC.NUMBER 1310xxxxx-0-0	REV X01	
		SHEET 30 of 77		

INVENTEC
TITLE
MODEL,PROJECT,FUNCTION
MCP4-GPIO,DP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M_A_DQS7_DP
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DDR_WR_VREF02
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SB_DQSP5
SB_DQSP6
SB_DQSP7
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M_B_CLK_DDR2_DP
M_B_CLK_DDR3_DN
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M_B_CKE3
M_B_CS#2
M_B_CS#3
M_B_RAS#
M_B_WE#
M_B_CAS#
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M_B_BS2
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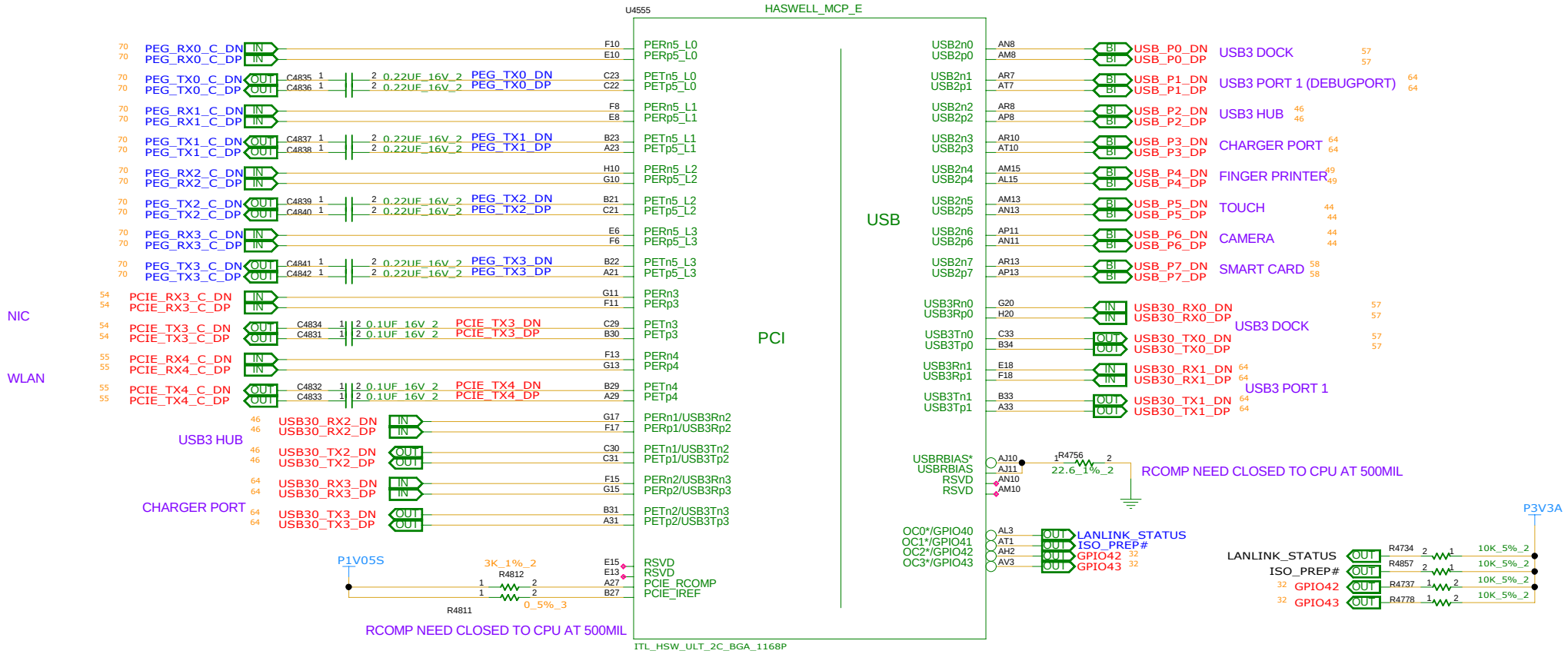
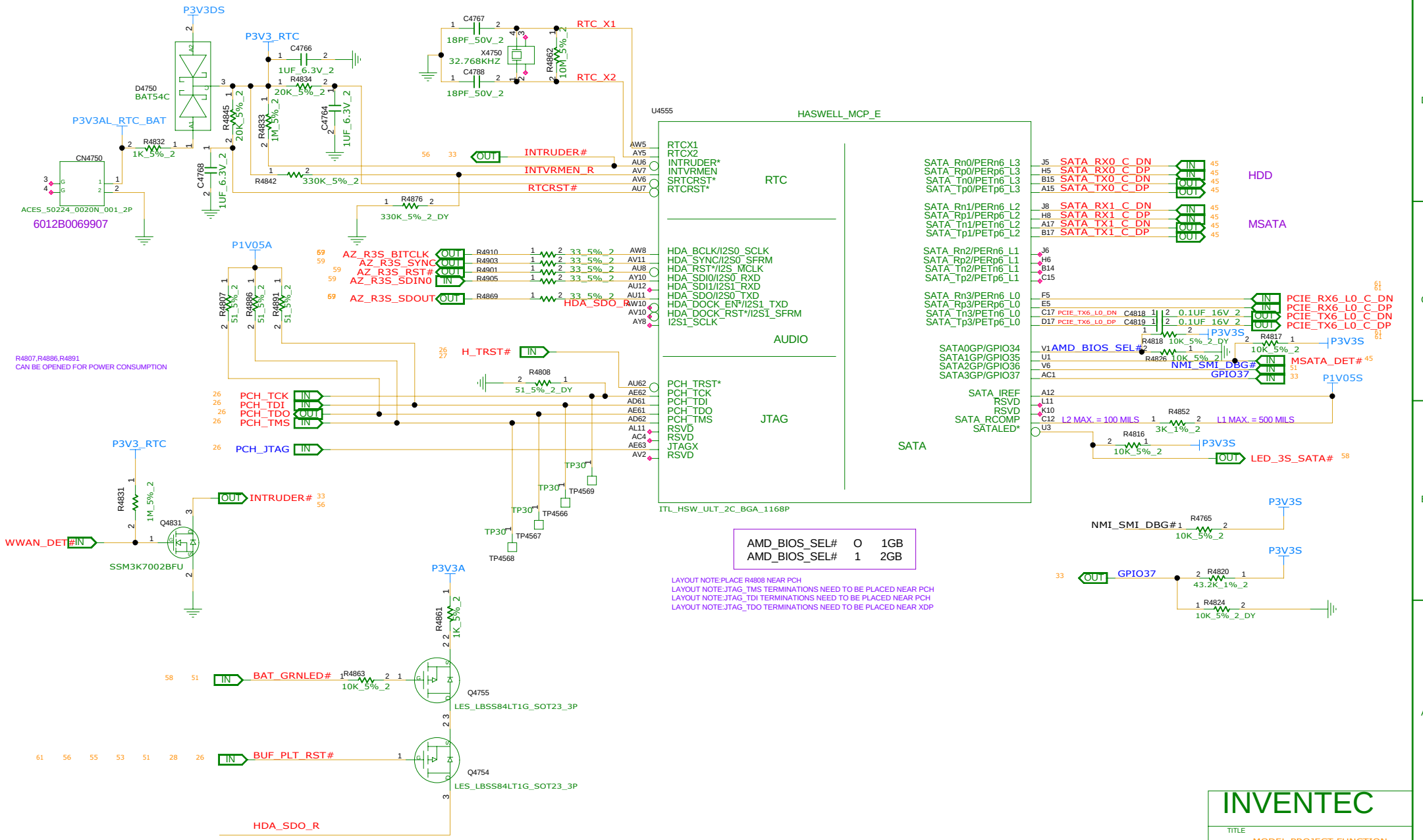
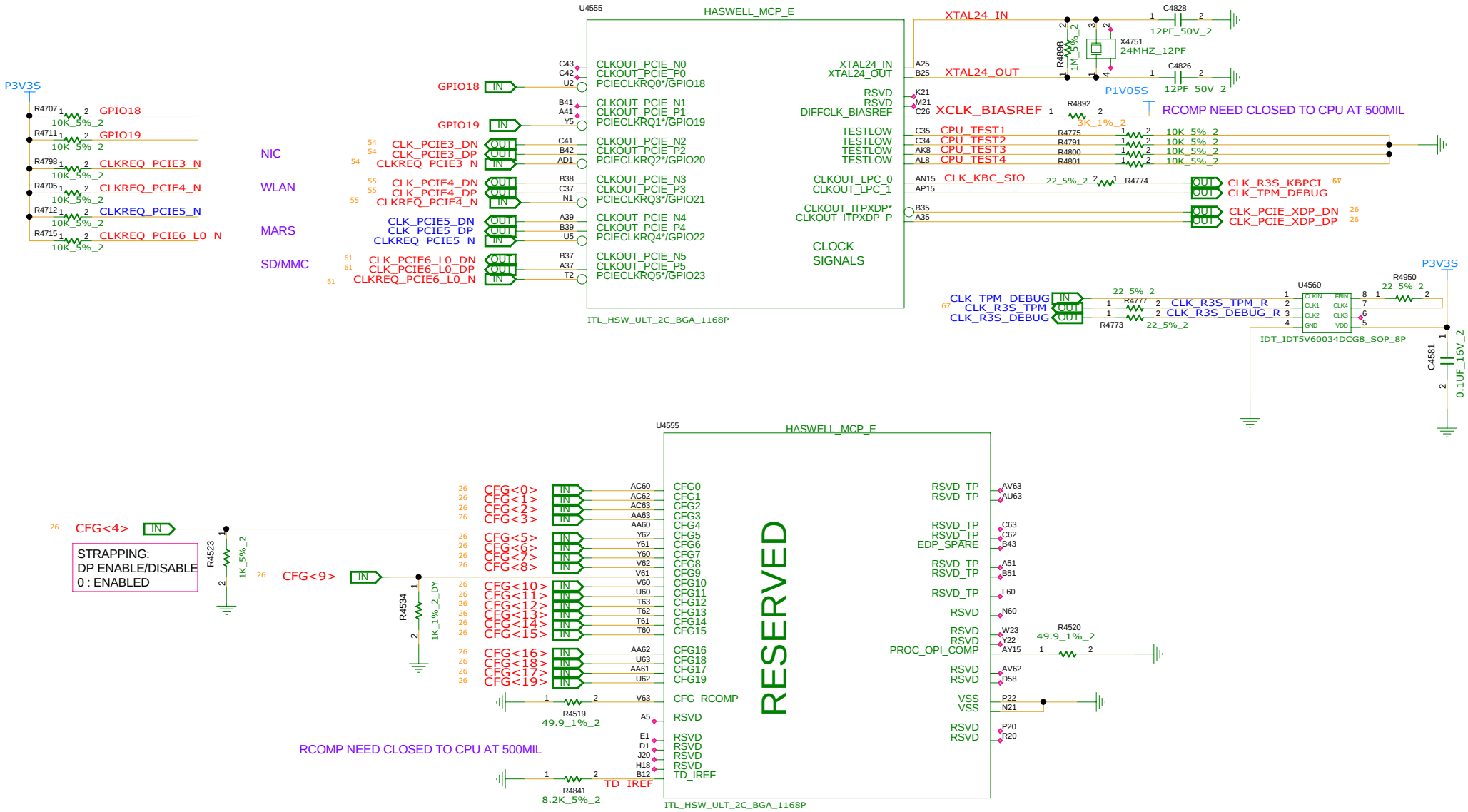
M_B_DQS4_DN
M_B_DQS5_DN
M_B_DQS6_DN
M_B_DQS7_DN
M_B_DQS0_DP
M_B_DQS1_DP
M_B_DQS2_DP
M_B_DQS3_DP
M_B_DQS4_DP
M_B_DQS5_DP
M_B_DQS6_DP
M_B_DQS7_DP
DDR CHANNEL B
ITL_HSW_ULT_2C_BGA_1168P
P0V75S_DIMM0_VREF_DQ
P0V75S_DIMM1_VREF_DQ
P0V75S_DIMM0_VREF_CA
DDR_RST_EN
DIODES_DMG2302U_7_3P
SLP_S3#_3R
REFERENCE:4500~4949
INVENTEC
MODEL,PROJECT,FUNCTION
MCP5-DDR
DOC.NUMBER
1310xxxxx-0-0
REV
X01
CHANGE by
XXX
DATE
21-OCT-2002
SHEET
31
of
77



REFERENCE:4700~4949

INVENTEC			
TITLE: MODEL,PROJECT,FUNCTION MCP6-PCIE,USB			
SIZE: A3	CODE: CS	DOC.NUMBER: 1310xxxxx-0-0	REV: X01
CHANGE by: XXX	DATE: 21-OCT-2002	SHEET: 32 of 77	

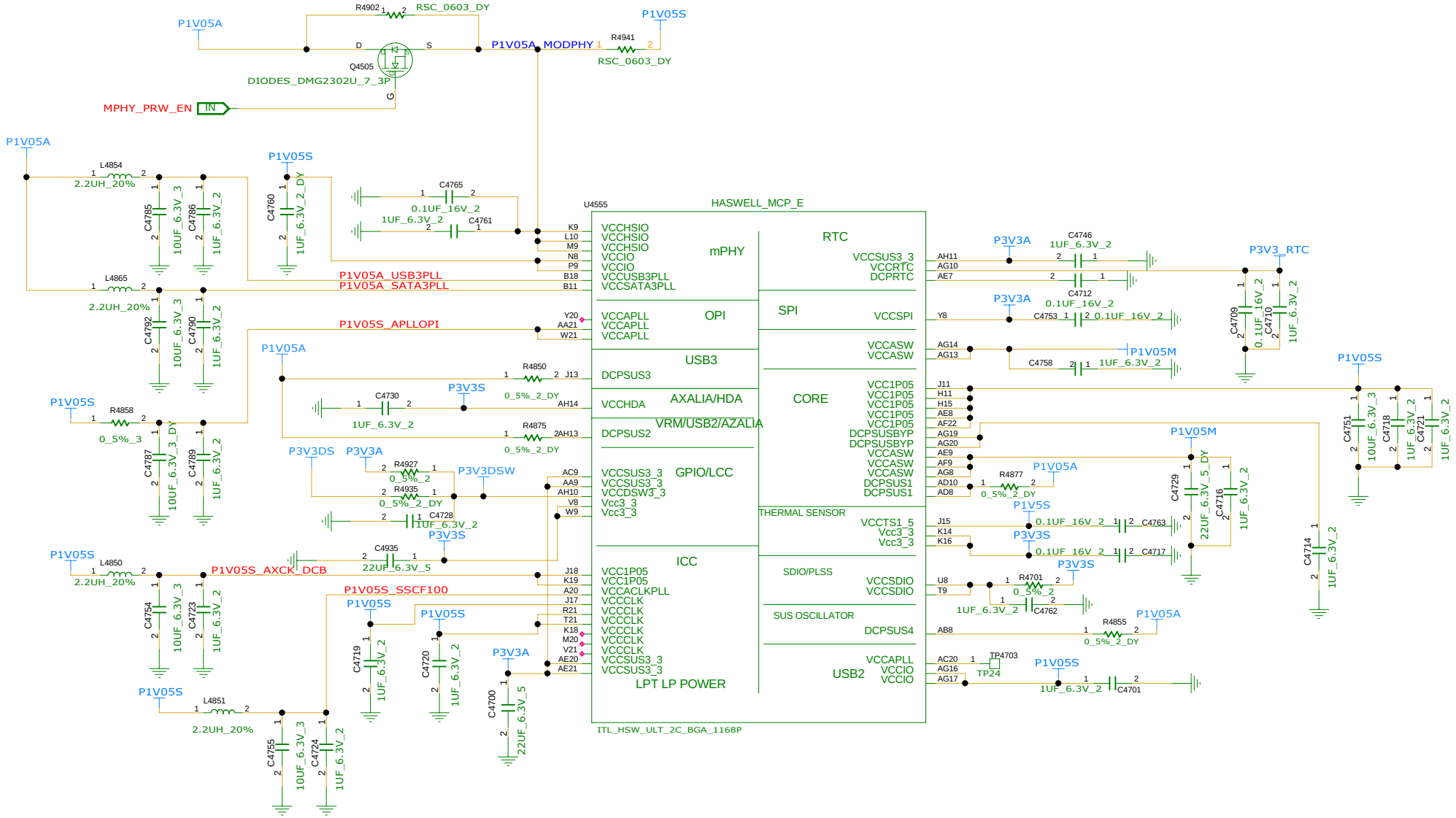

P3V3DS
P3V3_RTC
C4766
1UF_6.3V_2
D4750
BAT54C
P3V3AL_RTC_BAT
R4832
1K_5%_2
CN4750
ACES_50224_0020N_001_2P
6012B0069907
R4845
20K_5%_2
R4833
1M_5%_2
C4764
1UF_6.3V_2
R4834
20K_5%_2
C4768
1UF_6.3V_2
R4842
330K_5%_2
R4876
330K_5%_2_DY
C4767
18PF_50V_2
X4750
32.768KHZ
C4788
18PF_50V_2
R4862
10M_5%_2
RTC_X1
RTC_X2
U4555
HASWELL_MCP_E
INTRUDER#
INTVRMEN_R
RTCRST#
RTCX1
RTCX2
INTRUDER*
INTVRMEN
SRTCRST*
RTCRST*
RTC
P1V05A
R4807
51_5%_2
R4886
51_5%_2
R4891
51_5%_2
R4807,R4886,R4891
CAN BE OPENED FOR POWER CONSUMPTION
AZ_R3S_BITCLK
AZ_R3S_SYNC
AZ_R3S_RST#
AZ_R3S_SDIN0
AZ_R3S_SDOUT
R4910
R4903
R4901
R4905
R4869
33_5%_2
HDA_SDO_R
HDA_BCLK/I2S0_SCLK
HDA_SYNC/I2S0_SFRM
HDA_RST*/I2S_MCLK
HDA_SDI0/I2S0_RXD
HDA_SDI1/I2S1_RXD
HDA_SDO/I2S0_TXD
HDA_DOCK_EN*/I2S1_TXD
HDA_DOCK_RST*/I2S1_SFRM
I2S1_SCLK
AUDIO
H_TRST#
R4808
51_5%_2_DY
PCH_TCK
PCH_TDI
PCH_TDO
PCH_TMS
PCH_JTAG
PCH_TRST*
PCH_TCK
PCH_TDI
PCH_TDO
PCH_TMS
RSVD
RSVD
JTAGX
RSVD
JTAG
TP30
TP4569
TP4566
TP4567
TP4568
ITL_HSW_ULT_2C_BGA_1168P
AMD_BIOS_SEL# O 1GB
AMD_BIOS_SEL# 1 2GB
LAYOUT NOTE:PLACE R4808 NEAR PCH
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
SATA_Rn0/PERn6_L3
SATA_Rp0/PERp6_L3
SATA_Tn0/PETn6_L3
SATA_Tp0/PETp6_L3
SATA_RX0_C_DN
SATA_RX0_C_DP
SATA_TX0_C_DN
SATA_TX0_C_DP
HDD
SATA_Rn1/PERn6_L2
SATA_Rp1/PERp6_L2
SATA_Tn1/PETn6_L2
SATA_Tp1/PETp6_L2
SATA_RX1_C_DN
SATA_RX1_C_DP
SATA_TX1_C_DN
SATA_TX1_C_DP
MSATA
SATA_Rn2/PERn6_L1
SATA_Rp2/PERp6_L1
SATA_Tn2/PETn6_L1
SATA_Tp2/PETp6_L1
SATA_Rn3/PERn6_L0
SATA_Rp3/PERp6_L0
SATA_Tn3/PETn6_L0
SATA_Tp3/PETp6_L0
PCIE_RX6_L0_C_DN
PCIE_RX6_L0_C_DP
PCIE_TX6_L0_C_DN
PCIE_TX6_L0_C_DP
C4818
C4819
0.1UF_16V_2
SATA0GP/GPIO34
SATA1GP/GPIO35
SATA2GP/GPIO36
SATA3GP/GPIO37
AMD_BIOS_SEL#
NMI_SMI_DBG#
GPIO37
MSATA_DET#
SATA_IREF
RSVD
RSVD
SATA_RCOMP
SATALED*
L2 MAX. = 100 MILS
L1 MAX. = 500 MILS
R4852
3K_1%_2
R4816
10K_5%_2
LED_3S_SATA#
SATA
P3V3S
P1V05S
R4818
10K_5%_2_DY
R4817
10K_5%_2
R4826
10K_5%_2
NMI_SMI_DBG#
R4765
10K_5%_2
GPIO37
R4820
43.2K_1%_2
R4824
10K_5%_2_DY
P3V3A
R4831
1M_5%_2
Q4831
SSM3K7002BFU
WWAN_DET#
INTRUDER#
R4861
1K_5%_2
BAT_GRNLED#
R4863
10K_5%_2
Q4755
LES_LBSS84LT1G_SOT23_3P
BUF_PLT_RST#
Q4754
LES_LBSS84LT1G_SOT23_3P
HDA_SDO_R
REFERENCE:4500~4949
INVENTEC
TITLE
MODEL,PROJECT,FUNCTION
MCP7-RTC,AUDIO,SATA
SIZE A3
CODE CS
DOC.NUMBER 1310xxxxx-0-0
REV X01
CHANGE by XXX
DATE 21-OCT-2002
SHEET 33 of 77



REFERENCE:4500~4949

INVENTEC

TITLE			
MODEL,PROJECT,FUNCTION MCP8-CLOCK,RESERVED			
SIZE A3	CODE CS	DOC.NUMBER 1310xxxxx-0-0	REV X01
CHANGE by XXX	DATE 21-OCT-2002	SHEET 34 of 77	



REFERENCE:4500~4949

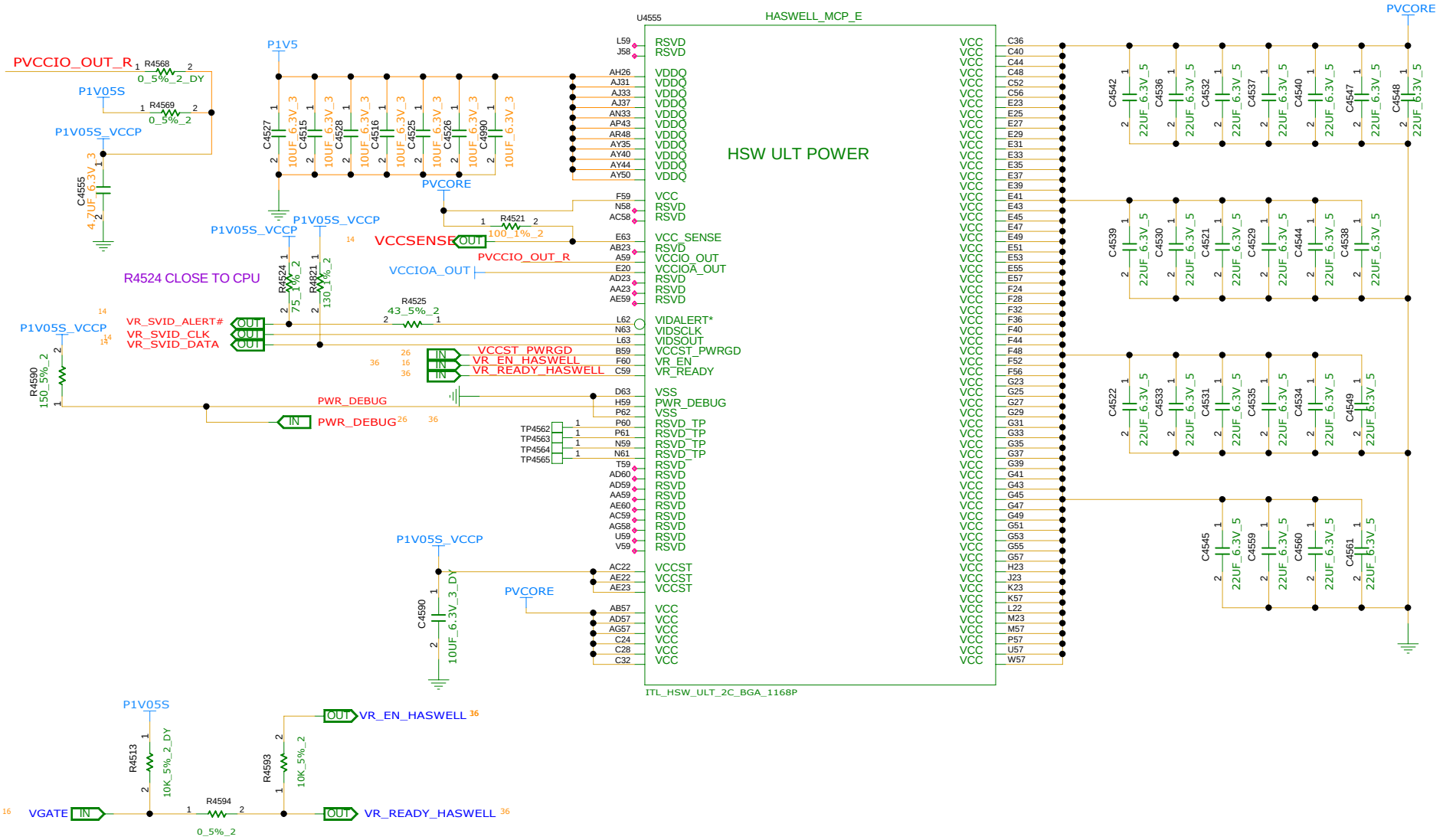
INVENTEC

TITLE: MODEL,PROJECT,FUNCTION
MCP9-POWER

SIZE	CODE	DOC.NUMBER	REV
A3	CS	1310xxxxx-0-0	X01

CHANGE by XXX | DATE 21-OCT-2002 | SHEET 35 of 77

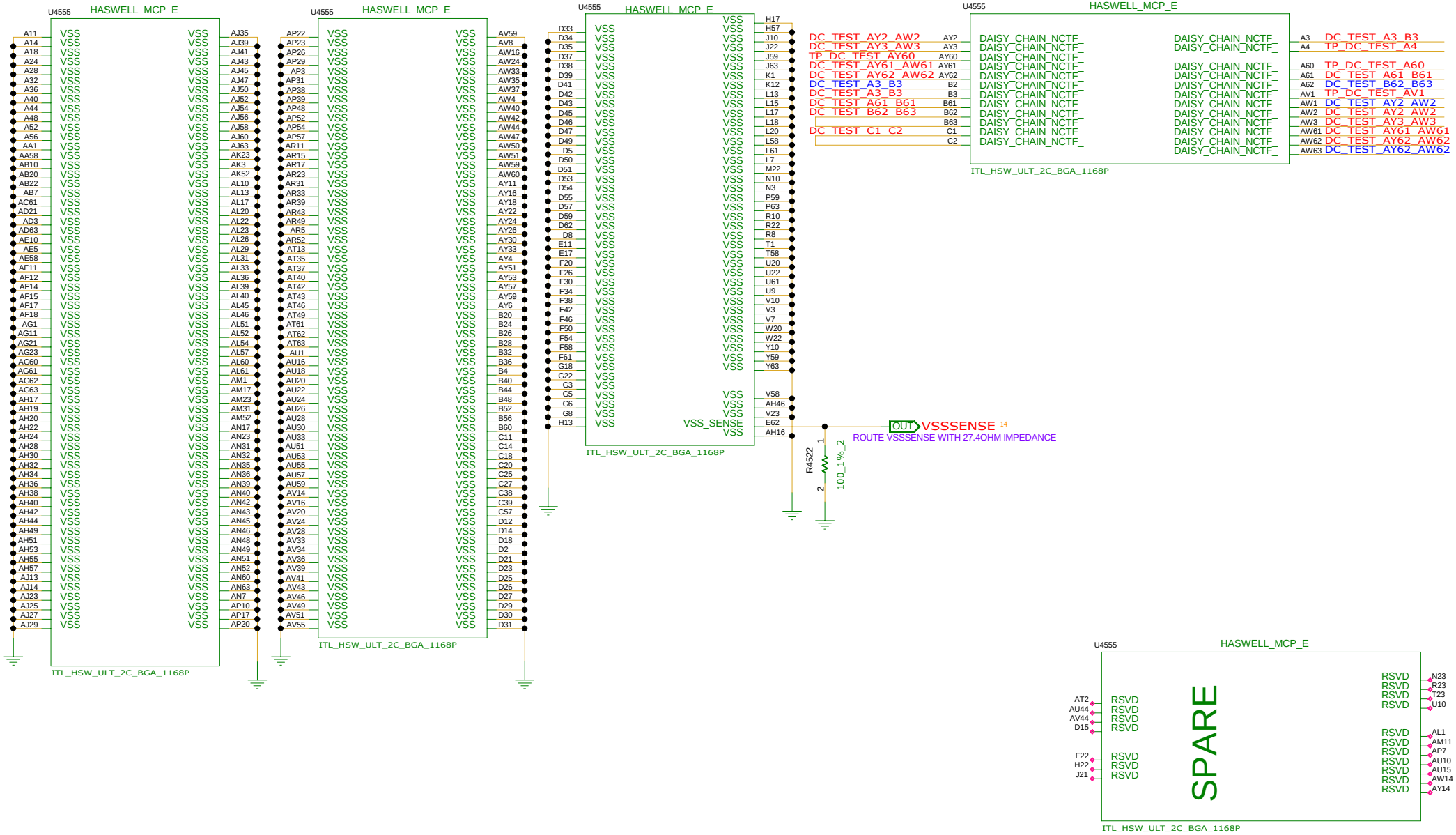
ROUTE VCCSENSE WITH 27.4OHM IMPEDANCE



REFERENCE:4500~4949

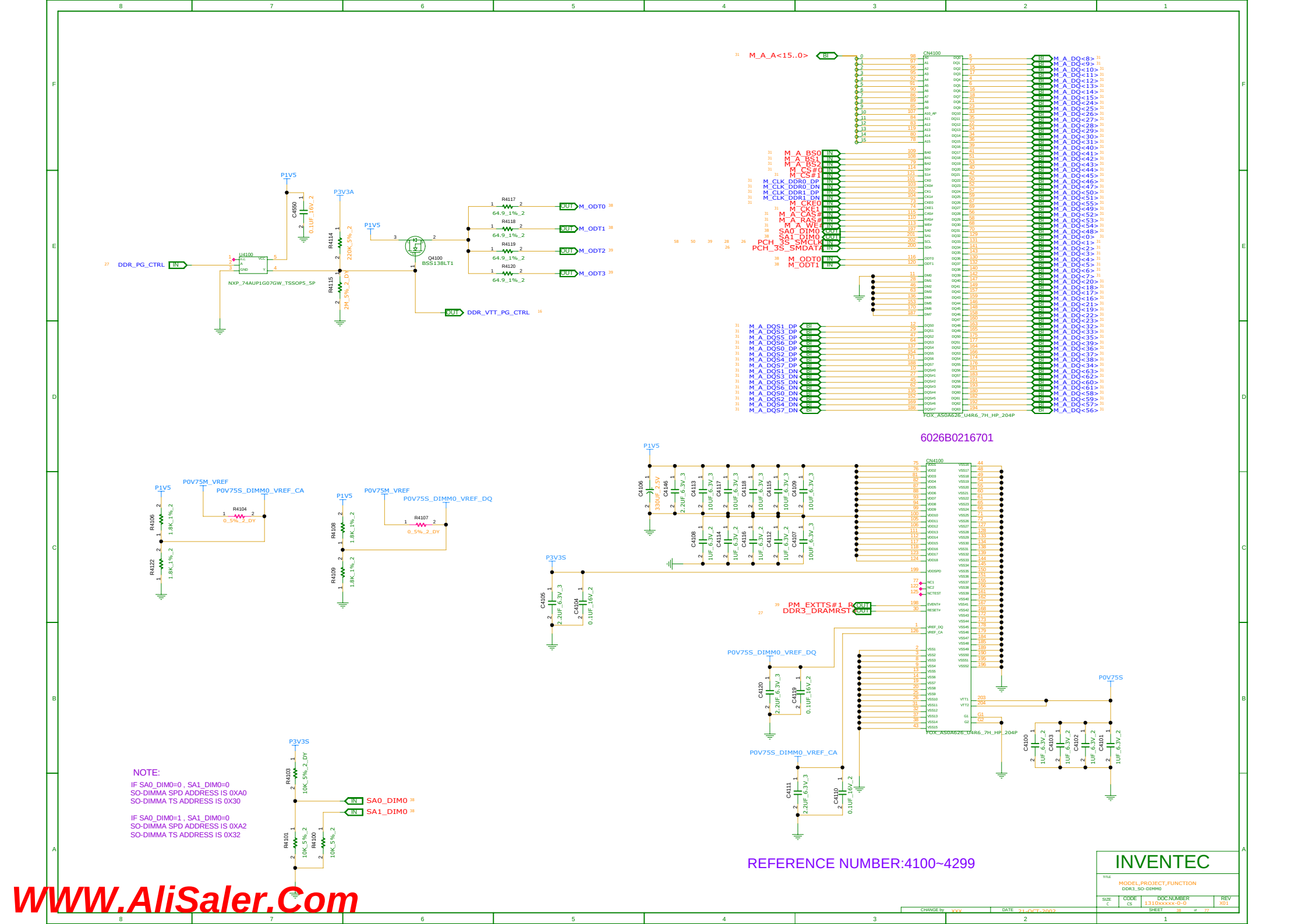
INVENTEC

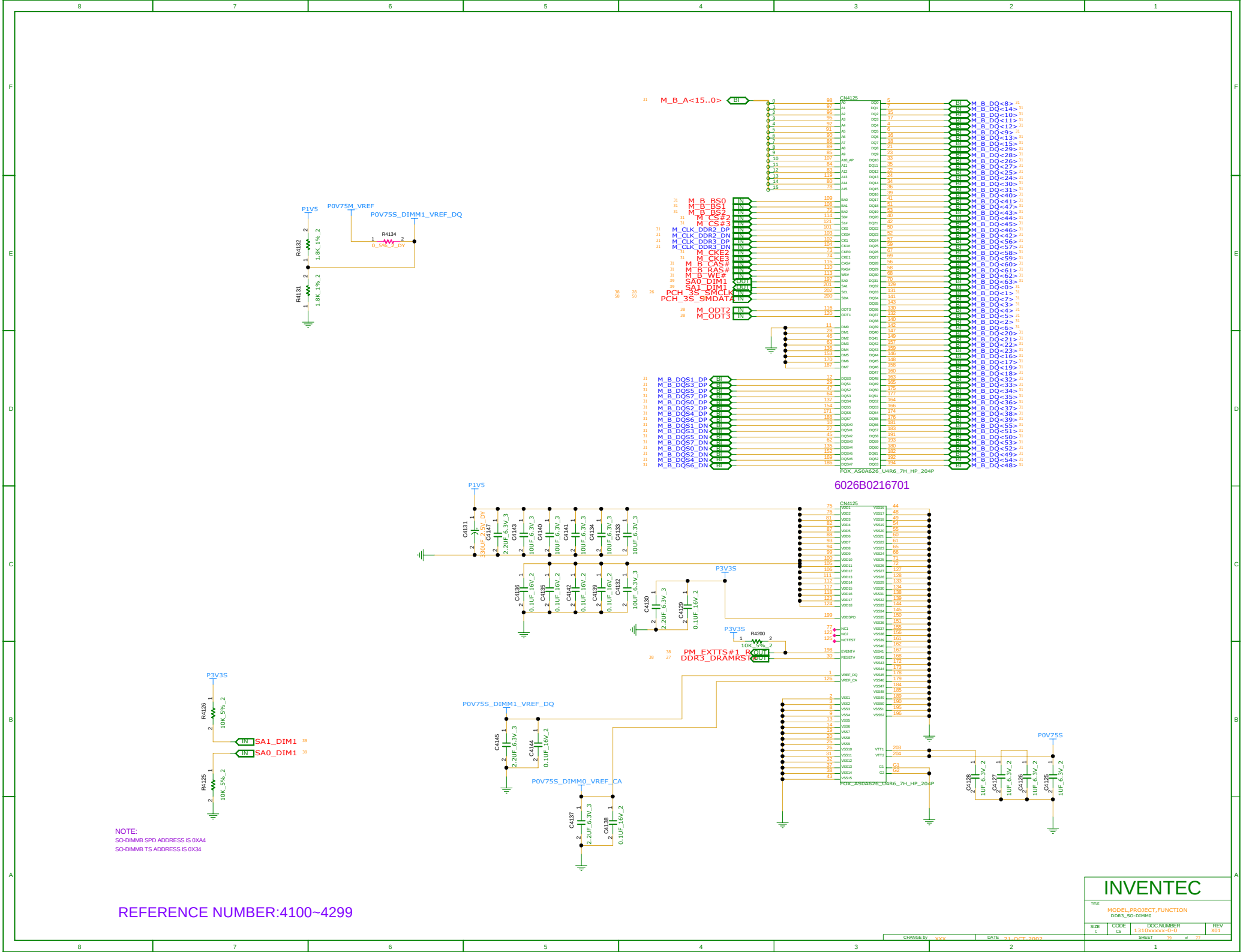
TITLE			
MODEL,PROJECT,FUNCTION MCP10-POWER			
SIZE A3	CODE CS	DOC.NUMBER 1310xxxxx-0-0	REV X01
CHANGE by XXX	DATE 21-OCT-2002	SHEET 36 of 77	



REFERENCE:4500~4949

INVENTEC			
TITLE: MODEL,PROJECT,FUNCTION MCP11-GND,DAISY CHAIN,RESERVE			
SIZE: A3	CODE: CS	DOC.NUMBER: 1310xxxxx-0-0	REV: X01
CHANGE by: XXX	DATE: 21-OCT-2002	SHEET 37 of 77	


M_A_A<15..0>
CN4100
DDR_PG_CTRL
NXP_74AUP1G07GW_TSSOP5_5P
Q4100
BSS138LT1
DDR_VTT_PG_CTRL
M_ODT0
M_ODT1
M_ODT2
M_ODT3
SA0_DIM0
SA1_DIM0
PCH_3S_SMCLK
PCH_3S_SMDATA
M_CLK_DDR0_DP
M_CLK_DDR0_DN
M_CLK_DDR1_DP
M_CLK_DDR1_DN
FOX_AS0A626_U4R6_7H_HP_204P
6026B0216701
P0V75M_VREF
P0V75S_DIMM0_VREF_CA
P0V75S_DIMM0_VREF_DQ
P0V75S
P3V3S
P1V5
P3V3A
PM_EXTTS#1_R
DDR3_DRAMRST
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
MODEL,PROJECT,FUNCTION
DDR3_SO-DIMM0
DOC.NUMBER
1310xxxxx-0-0
WWW.AliSaler.Com


P1V5
P0V75M_VREF
P0V75S_DIMM1_VREF_DQ
R4132 1.8K_1%_2
R4131 1.8K_1%_2
R4134 0_5%_2_DY
M_B_A<15..0>
M_B_BS0
M_B_BS1
M_B_BS2
M_CS#2
M_CS#3
M_CLK_DDR2_DP
M_CLK_DDR2_DN
M_CLK_DDR3_DP
M_CLK_DDR3_DN
M_CKE2
M_CKE3
M_B_CAS#
M_B_RAS#
M_B_WE#
SA0_DIM1
SA1_DIM1
PCH_3S_SMCLK
PCH_3S_SMDATA
M_ODT2
M_ODT3
M_B_DQS1_DP
M_B_DQS3_DP
M_B_DQS5_DP
M_B_DQS7_DP
M_B_DQS0_DP
M_B_DQS2_DP
M_B_DQS4_DP
M_B_DQS6_DP
M_B_DQS1_DN
M_B_DQS3_DN
M_B_DQS5_DN
M_B_DQS7_DN
M_B_DQS0_DN
M_B_DQS2_DN
M_B_DQS4_DN
M_B_DQS6_DN
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M_B_DQ<48>
CN4125
FOX_ASDA626_U4R6_7H_HP_204P
6026B0216701
P1V5
P3V3S
R4200 10K_5%_2
PM_EXTTS#1_R
DDR3_DRAMRST#
P0V75S_DIMM1_VREF_DQ
P0V75S_DIMM0_VREF_CA
P0V75S
P3V3S
R4126 10K_5%_2
R4125 10K_5%_2
SA1_DIM1
SA0_DIM1
NOTE:
SO-DIMMB SPD ADDRESS IS 0XA4
SO-DIMMB TS ADDRESS IS 0X34
REFERENCE NUMBER:4100~4299
INVENTEC
MODEL,PROJECT,FUNCTION
DDR3_SO-DIMM0
DOC.NUMBER
1310xxxxx-0-0
REV
X01
CHANGE by XXX
DATE 21-OCT-2002

RESERVED

INVENTEC

TITLE
MODEL,PROJECT,FUNCTION
DPB_DEMUX1_TO_DP

SIZE	CODE	DOC.NUMBER	REV
A3	CS	1310xxxxx-0-0	X01

CHANGE by XXX | DATE 21-OCT-2002 | SHEET 40 of 77

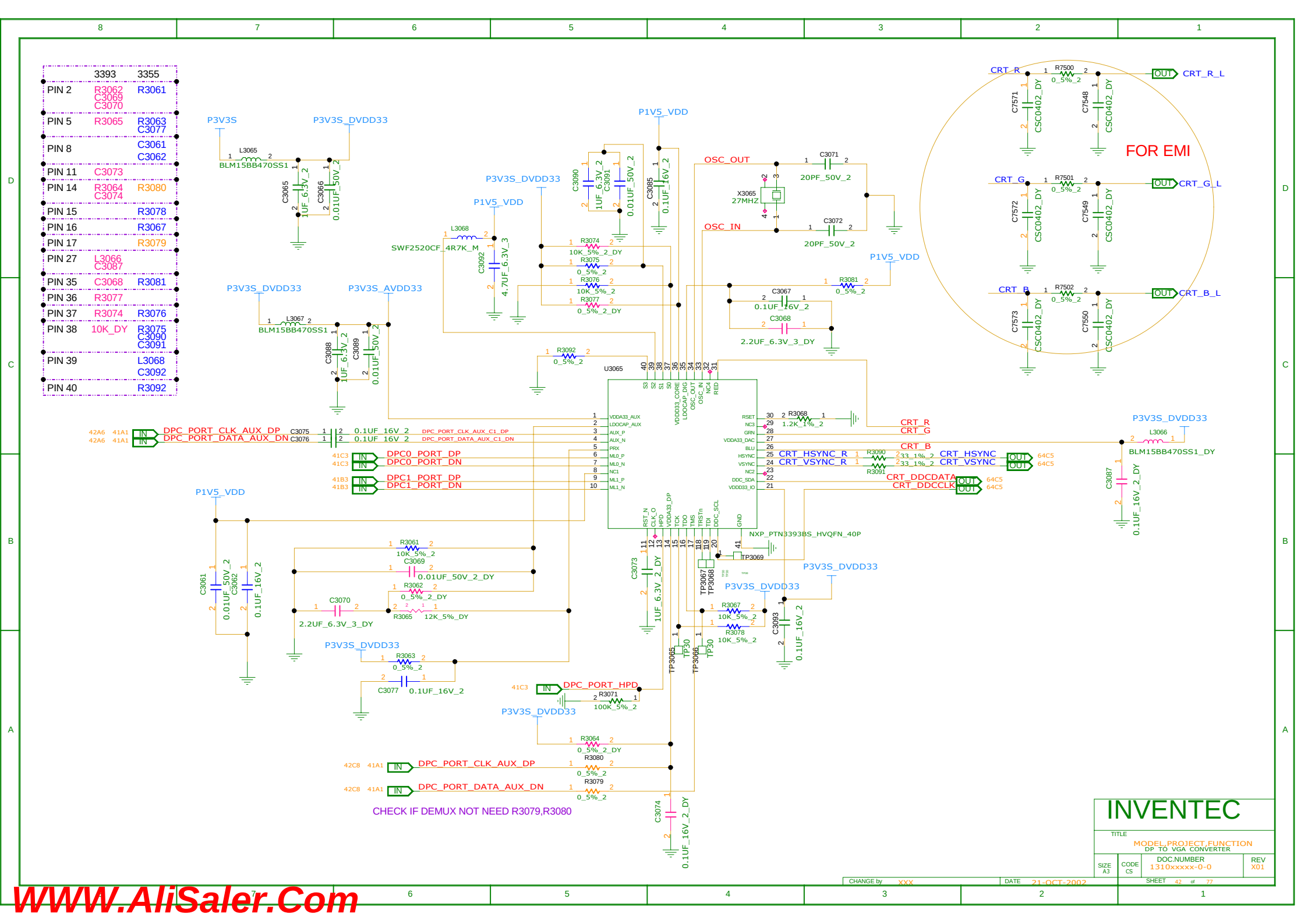
RESERVED

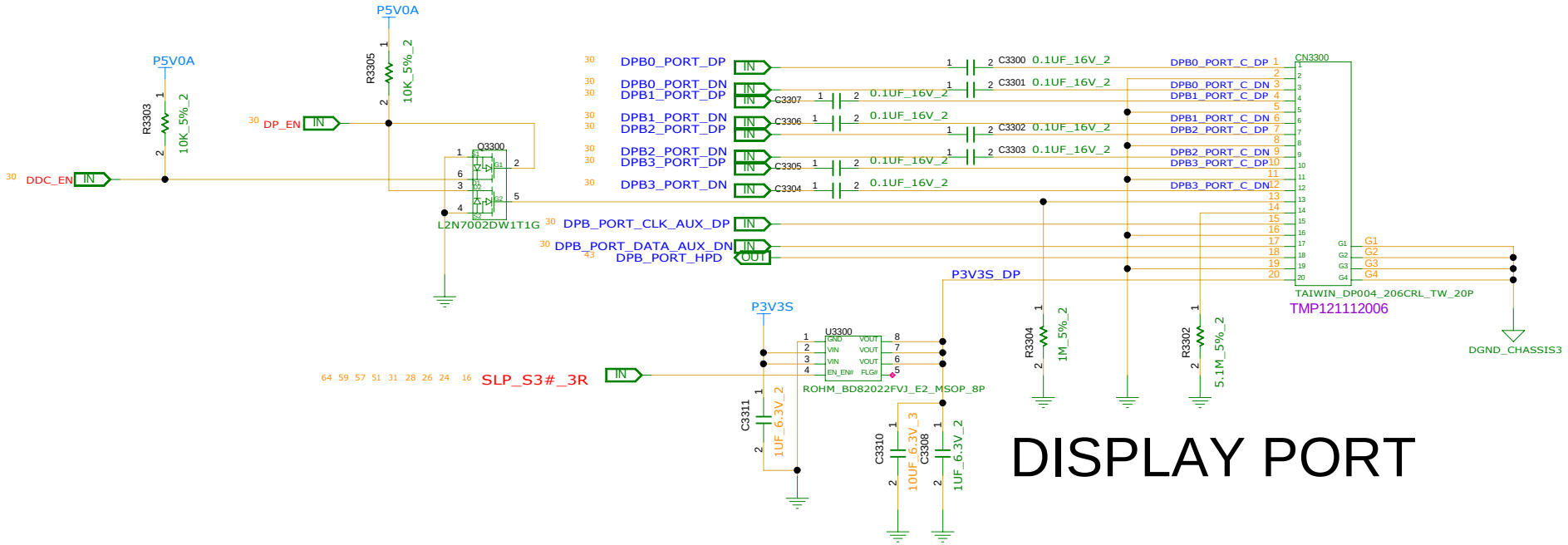
INVENTEC

TITLE
MODEL,PROJECT,FUNCTION
DPC DEMUX2 TO VGA

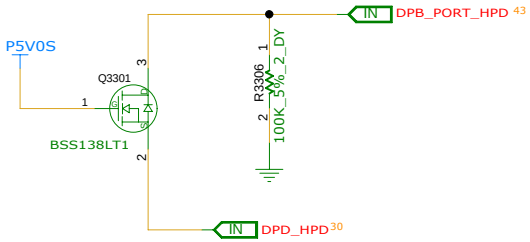
SIZE	CODE	DOC.NUMBER	REV
A3	CS	1310xxxxx-0-0	X01

CHANGE by XXX | DATE 21-OCT-2002 | SHEET 41 of 77


3393 3355
PIN 2 R3062 C3069 C3070 R3061
PIN 5 R3065 R3063 C3077
PIN 8 C3061 C3062
PIN 11 C3073
PIN 14 R3064 C3074 R3080
PIN 15 R3078
PIN 16 R3067
PIN 17 R3079
PIN 27 L3066 C3087
PIN 35 C3068 R3081
PIN 36 R3077
PIN 37 R3074 R3076
PIN 38 10K_DY R3075 C3090 C3091
PIN 39 L3068 C3092
PIN 40 R3092
FOR EMI
CRT_R R7500 0_5%_2 OUT CRT_R_L
CRT_G R7501 0_5%_2 OUT CRT_G_L
CRT_B R7502 0_5%_2 OUT CRT_B_L
C7571 C7548 C7572 C7549 C7573 C7550 CSC0402_DY
P3V3S P3V3S_DVDD33 P3V3S_AVDD33 P1V5_VDD
L3065 BLM15BB470SS1
L3068 SWF2520CF_4R7K_M
L3067 BLM15BB470SS1
L3066 BLM15BB470SS1_DY
C3065 C3066 C3088 C3089 C3090 C3091 C3092 C3085 C3087
1UF_6.3V_2 0.01UF_50V_2 4.7UF_6.3V_3 0.1UF_16V_2
OSC_OUT OSC_IN X3065 27MHZ C3071 C3072 20PF_50V_2
R3074 10K_5%_2_DY R3075 0_5%_2 R3076 10K_5%_2 R3077 0_5%_2_DY
R3081 0_5%_2 C3067 0.1UF_16V_2 C3068 2.2UF_6.3V_3_DY
R3092 0_5%_2
U3065
VDDA33_AUX LDOCAP_AUX AUX_P AUX_N PRX ML0_P ML0_N NC1 ML1_P ML1_N
VDDD33_CORE LDOCAP_DIG OSC_OUT OSC_IN NC4 RED
RSET NC3 GRN VDDA33_DAC BLU HSYNC VSYNC NC2 DDC_SDA VDDD33_IO
RST_N CLK_O HPD VDDA33_DP TCK TDO TMS TRSTn TDI DDC_SCL GND
NXP_PTN3393BS_HVQFN_40P
R3068 1.2K_1%_2 R3090 33_1%_2 R3091 33_1%_2
CRT_R CRT_G CRT_B CRT_HSYNC_R CRT_VSYNC_R CRT_HSYNC CRT_VSYNC CRT_DDCDATA CRT_DDCCLK
DPC_PORT_CLK_AUX_DP DPC_PORT_DATA_AUX_DN C3075 C3076 0.1UF_16V_2
DPC0_PORT_DP DPC0_PORT_DN DPC1_PORT_DP DPC1_PORT_DN
DPC_PORT_HPD R3071 100K_5%_2
R3061 10K_5%_2 C3069 0.01UF_50V_2_DY R3062 0_5%_2_DY C3070 2.2UF_6.3V_3_DY R3065 12K_5%_DY
R3063 0_5%_2 C3077 0.1UF_16V_2
R3064 0_5%_2_DY R3080 0_5%_2 R3079 0_5%_2
C3061 C3062 C3073 C3074 C3093 0.1UF_6.3V_2_DY
TP3069 TP3067 TP3068 TP3065 TP3066 TP30
R3067 10K_5%_2 R3078 10K_5%_2
CHECK IF DEMUX NOT NEED R3079,R3080
INVENTEC
TITLE MODEL,PROJECT,FUNCTION DP TO VGA CONVERTER
SIZE A3 CODE CS DOC.NUMBER 1310xxxxx-0-0 REV X01
CHANGE by XXX DATE 21-OCT-2002 SHEET 42 of 77
WWW.AliSaler.Com



DISPLAY PORT



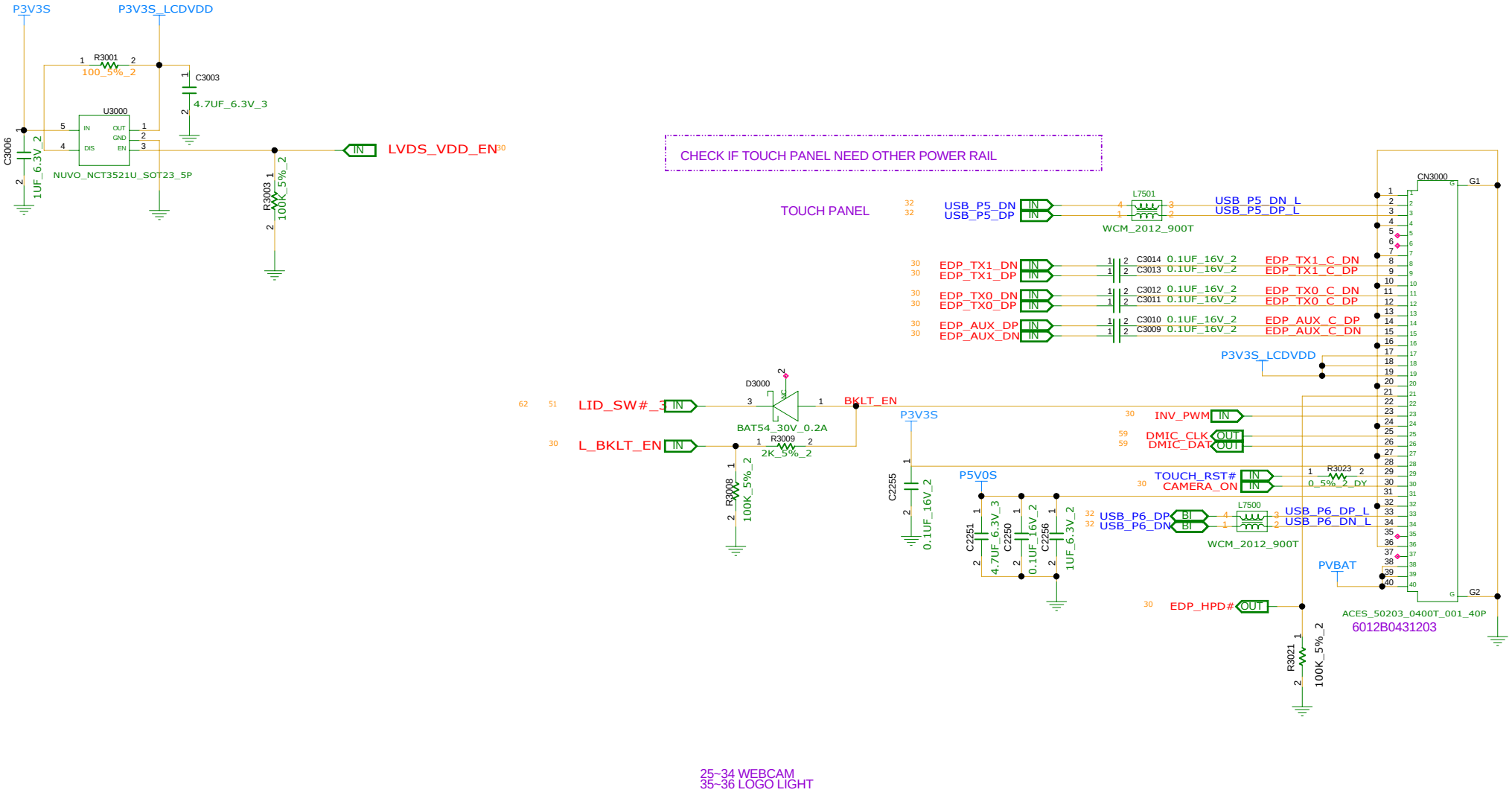
REFERENCE NUMBER:3300~3399

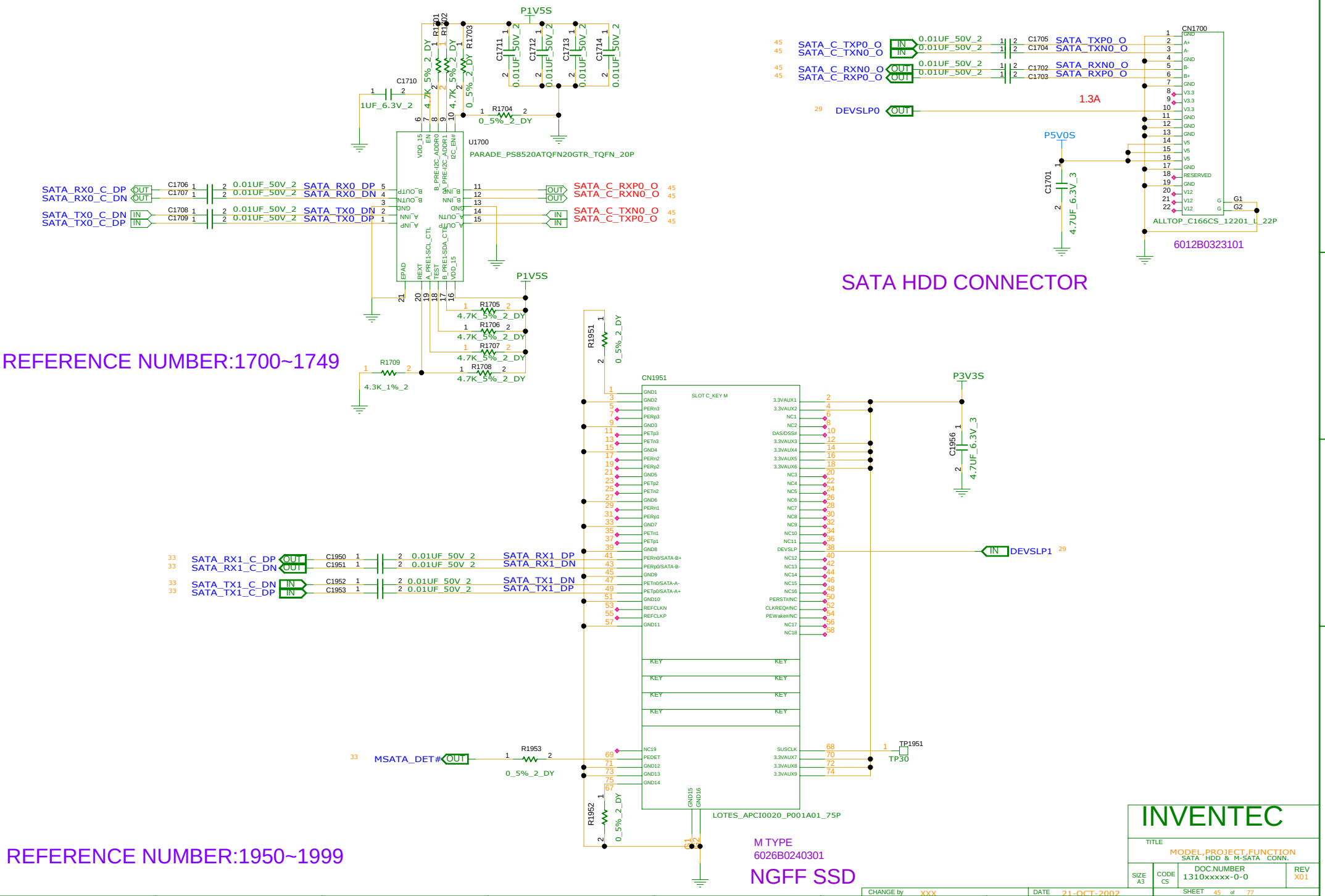
INVENTEC

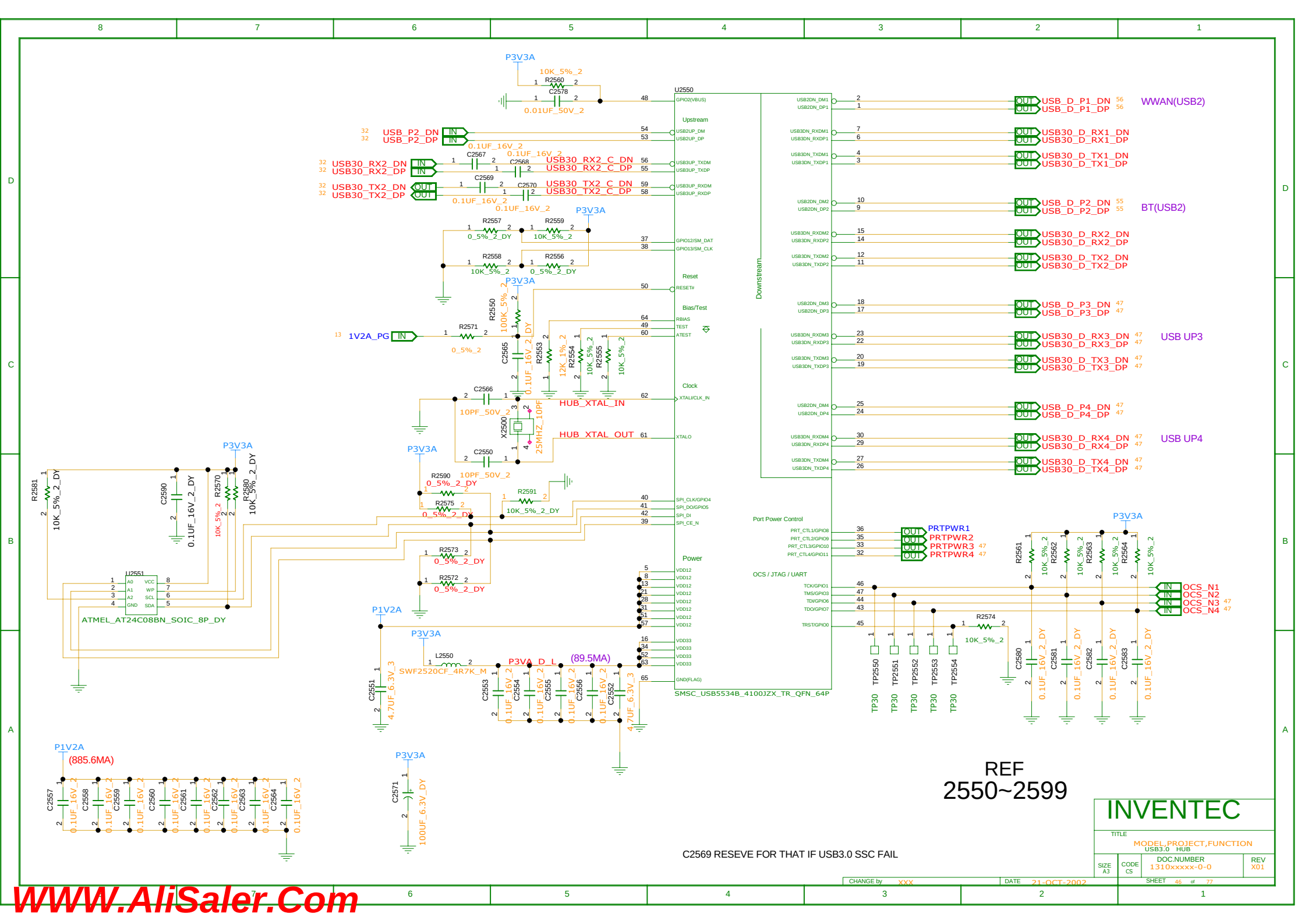
TITLE: MODEL,PROJECT,FUNCTION
CRT & DP

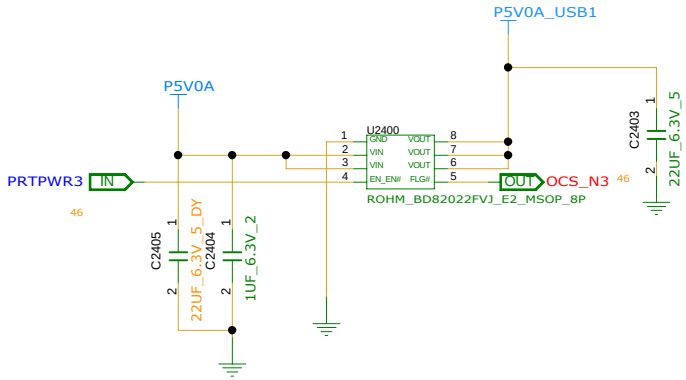
SIZE	CODE	DOC.NUMBER	REV
A3	CS	1310xxxxx-0-0	X01

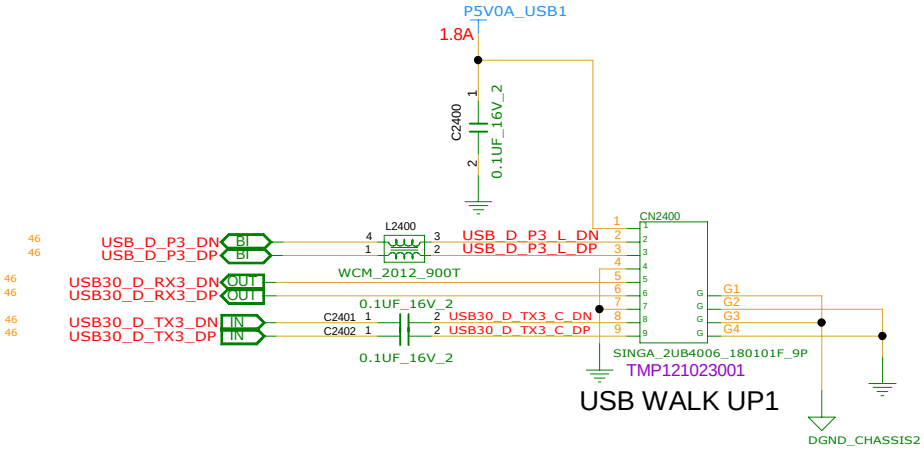
CHANGE by XXX | DATE 21-OCT-2002 | SHEET 43 of 77

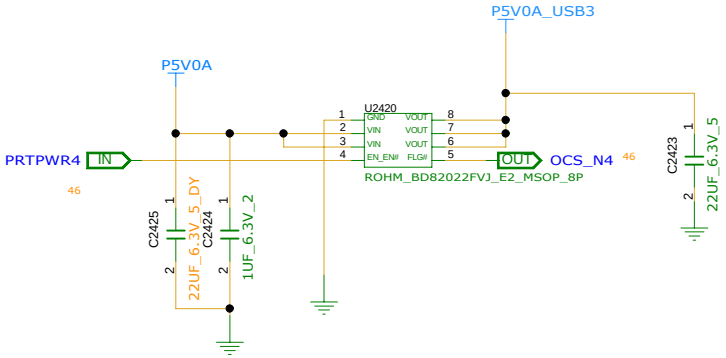


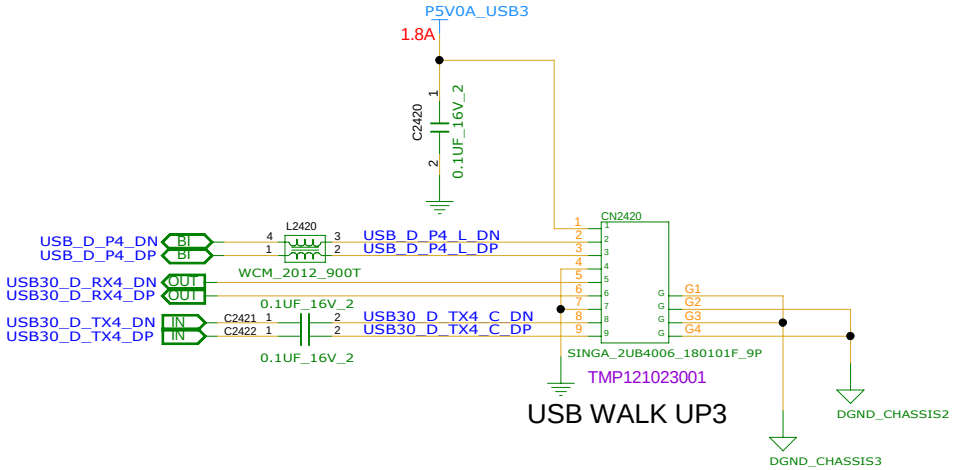

P1V5S
U1700
PARADE_PS8520ATQFN20GTR_TQFN_20P
SATA_RX0_C_DP
SATA_RX0_C_DN
SATA_TX0_C_DN
SATA_TX0_C_DP
SATA_RX0_DP
SATA_RX0_DN
SATA_TX0_DN
SATA_TX0_DP
SATA_C_RXP0_O
SATA_C_RXN0_O
SATA_C_TXN0_O
SATA_C_TXP0_O
REFERENCE NUMBER:1700~1749
SATA HDD CONNECTOR
CN1700
ALLTOP_C166CS_12201_L 22P
6012B0323101
P5V0S
1.3A
DEVSLP0
CN1951
LOTES_APCI0020_P001A01_75P
P3V3S
DEVSLP1
SATA_RX1_C_DP
SATA_RX1_C_DN
SATA_TX1_C_DN
SATA_TX1_C_DP
SATA_RX1_DP
SATA_RX1_DN
SATA_TX1_DN
SATA_TX1_DP
MSATA_DET#
TP1951
TP30
REFERENCE NUMBER:1950~1999
M TYPE
6026B0240301
NGFF SSD
INVENTEC
MODEL,PROJECT,FUNCTION
SATA HDD & M-SATA CONN.
DOC.NUMBER
1310xxxxx-0-0
REV
X01
SIZE
A3
CODE
CS
SHEET
45
of
77
CHANGE by
XXX
DATE
21-OCT-2002











REFERENCE NUMBER:2400~2499

INVENTEC

TITLE: MODEL_PROJECT_FUNCTION USB & USB CHARGER			
SIZE A3	CODE CS	DOC.NUMBER 1310xxxxx-0-0	REV X01
CHANGE by XXX	DATE 21-OCT-2002	SHEET 47 of 77	

	R2511	R2515	R2514
TPS2543	20K	10K	NI
TPS2540/A PI5USB2543	NI	NI	0

REFERENCE NUMBER:2500~2599

REFERENCE NUMBER:3050~3099

CRT

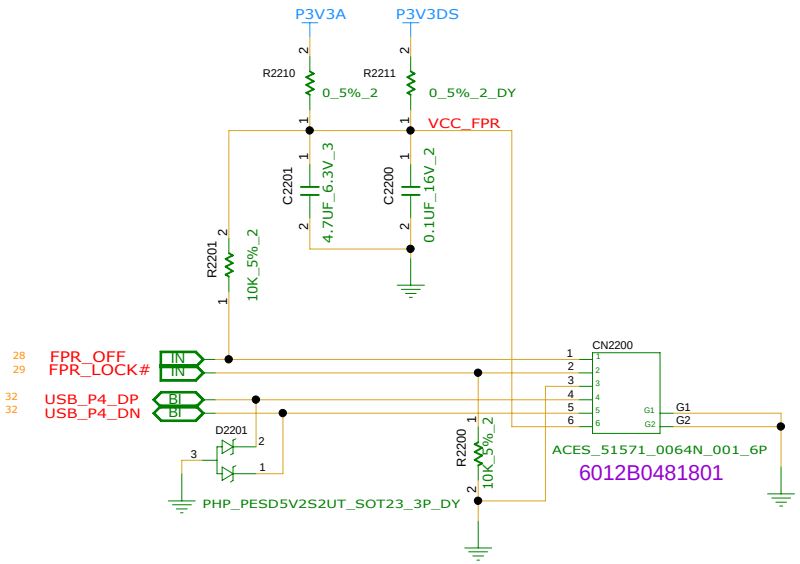
USB CHARGER

INVENTEC

TITLE: MODEL,PROJECT,FUNCTION
USB CONN.

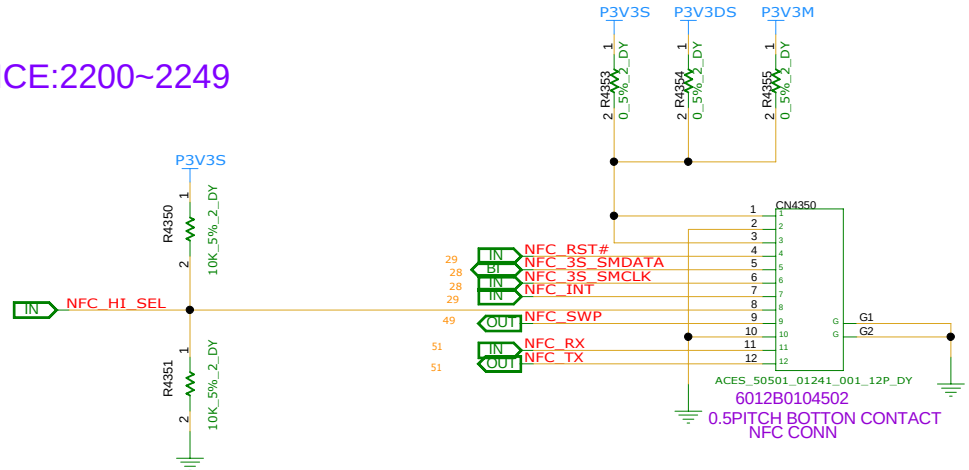
SIZE	CODE	DOC.NUMBER	REV
A3	CS	1310xxxxx-0-0	X01

CHANGE by XXX | DATE 21-OCT-2002 | SHEET 48 of 77



FINGER PRINT CONN

REFERENCE:2200~2249



NFC_HI_SEL	R4350	R4351
HIGH (UART)	INSTALL	
LOW (I2C)		INSTALL

56 OUT UIM_VPP — R4352 0_5%_2_DY — NFC_SWP IN 49

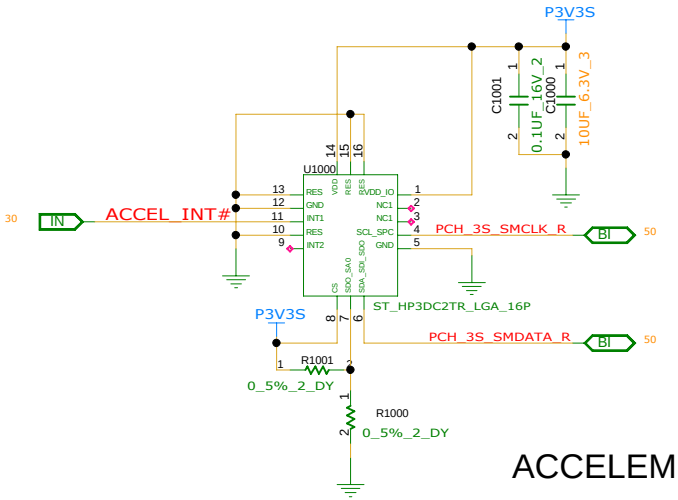
REFERENCE:4350~4399

INVENTEC

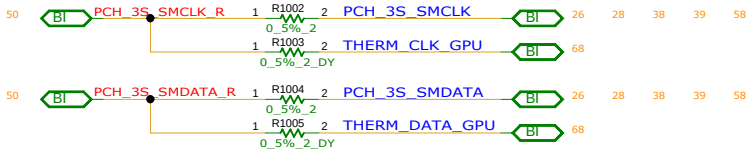
TITLE: MODEL_PROJECT_FUNCTION
FINGER PRINTER & NFC

SIZE	CODE	DOC.NUMBER	REV
A3	CS	1310xxxxx-0-0	X01

CHANGE by XXX | DATE 21-OCT-2002 | SHEET 49 of 77



ACCELEMETOR



REFERENCE NUMER : 1000~1099

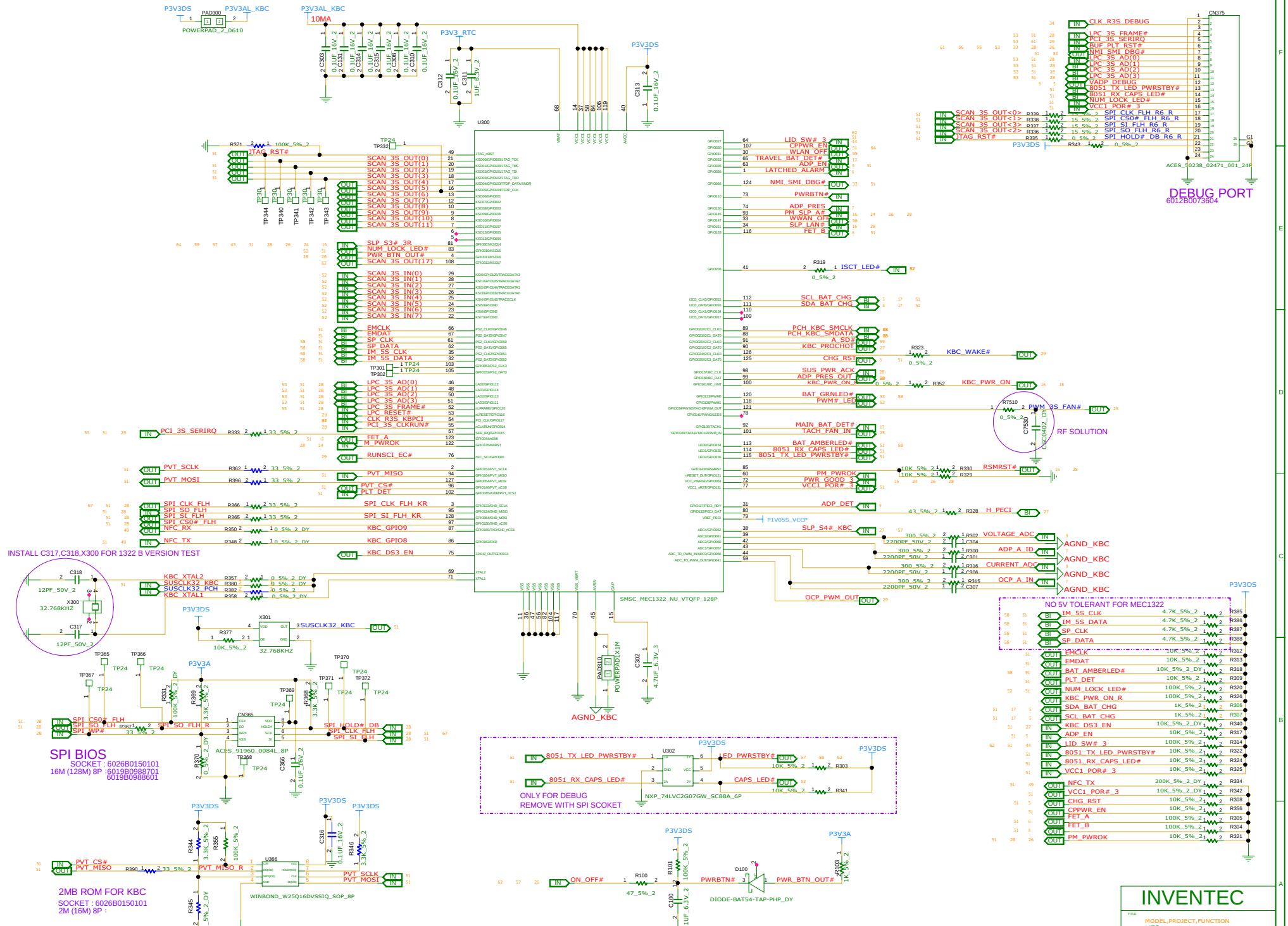
INVENTEC

TITLE
MODEL,PROJECT,FUNCTION
ACCELEMETOR

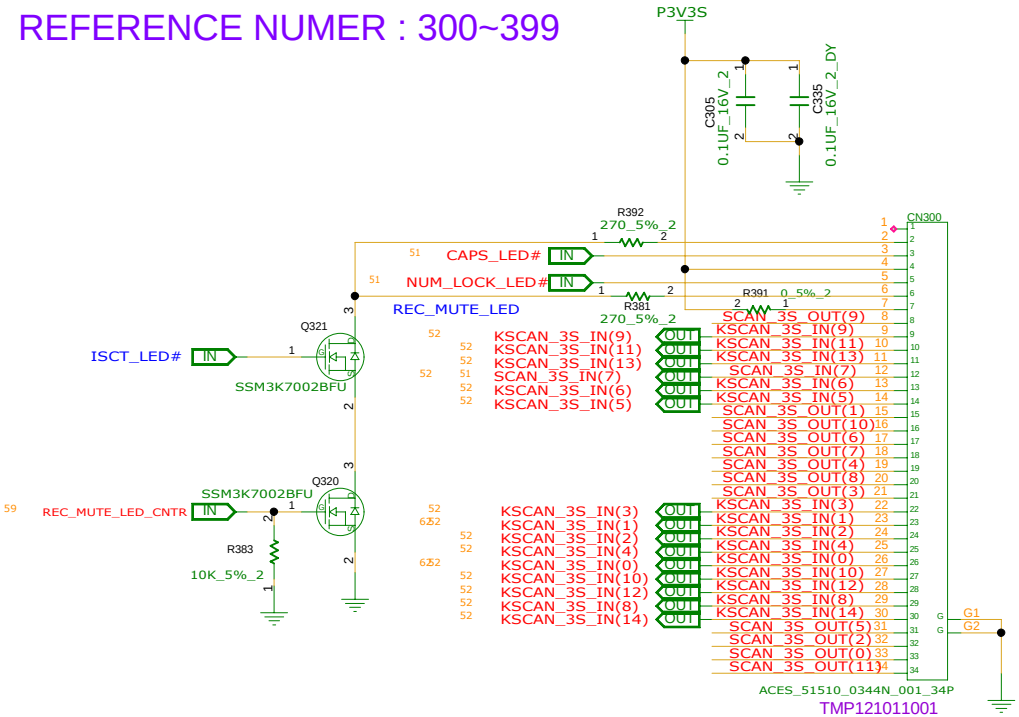
SIZE	CODE	DOC.NUMBER	REV
A3	CS	1310xxxxx-0-0	X01

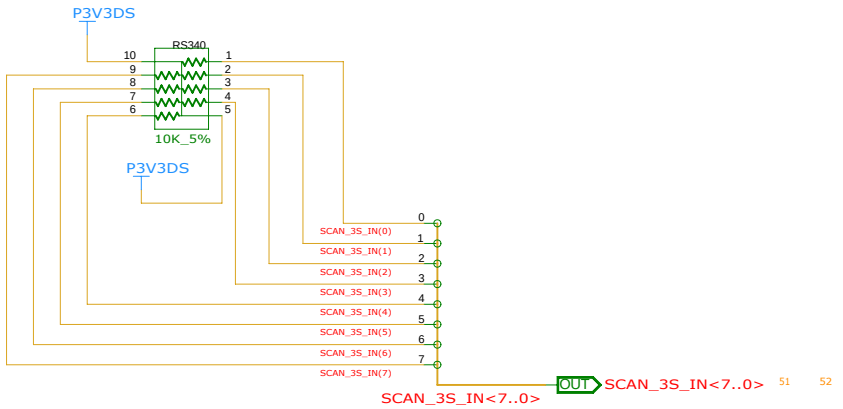
CHANGE by XXX DATE 21-OCT-2002 SHEET 50 of 77

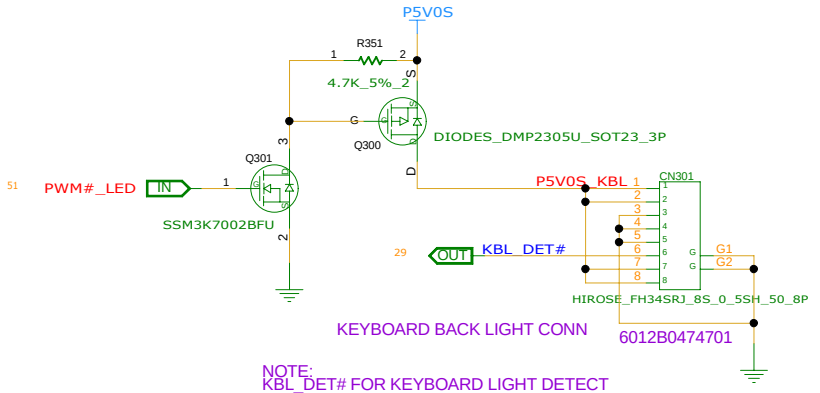
REFERENCE NUMER : 300~399

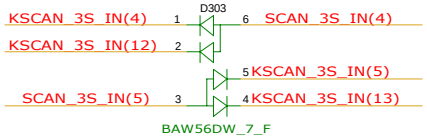


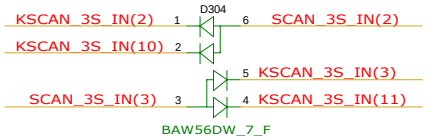
REFERENCE NUMER : 300~399

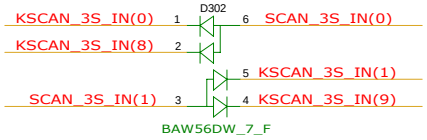


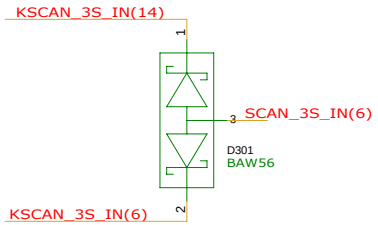




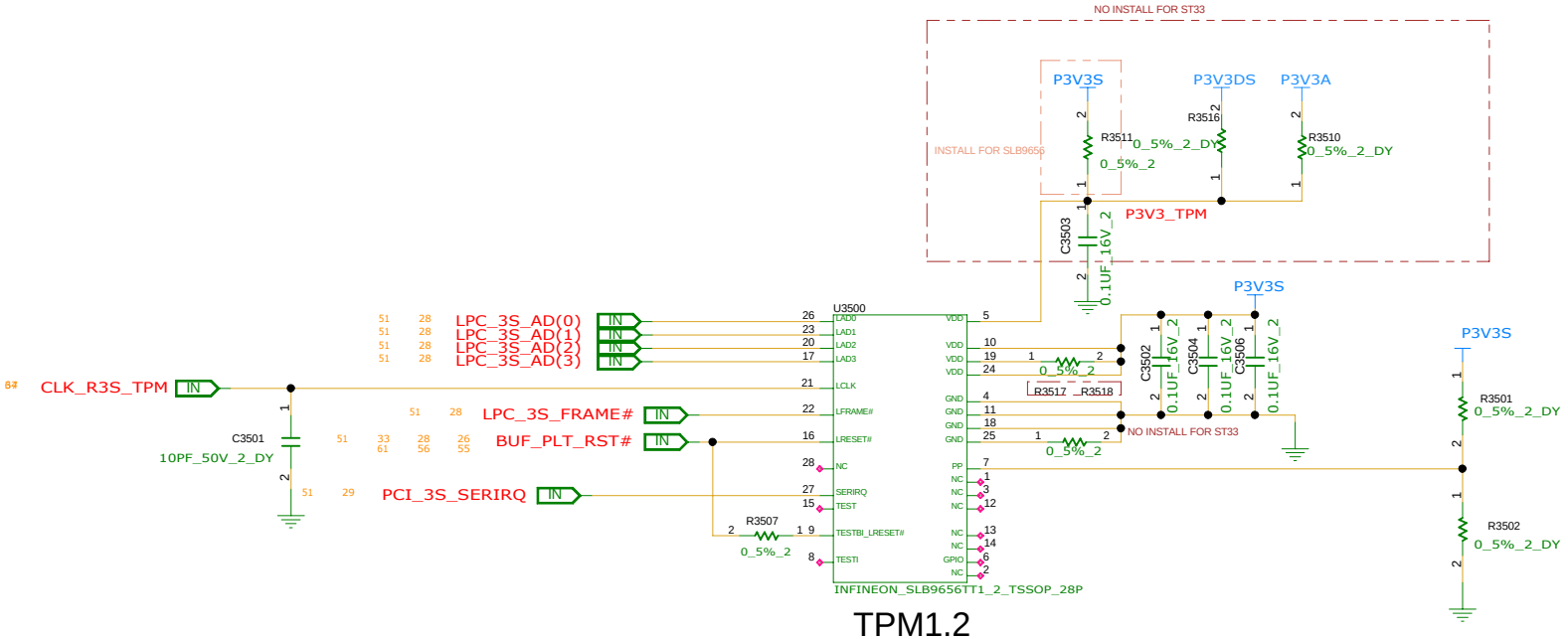








INVENTEC			
TITLE: MODEL,PROJECT,FUNCTION KEYBOARD			
SIZE A3	CODE CS	DOC.NUMBER 1310xxxxx-0-0	REV X01
CHANGE by XXX	DATE 21-OCT-2002	SHEET 52 of 77	



TPM1.2

	SLB9656TT1.2	ST33
C3503	INSTALL	OPEN
R3507	INSTALL	OPEN
R3511	INSTALL	OPEN
R3517	INSTALL	OPEN
R3518	INSTALL	OPEN

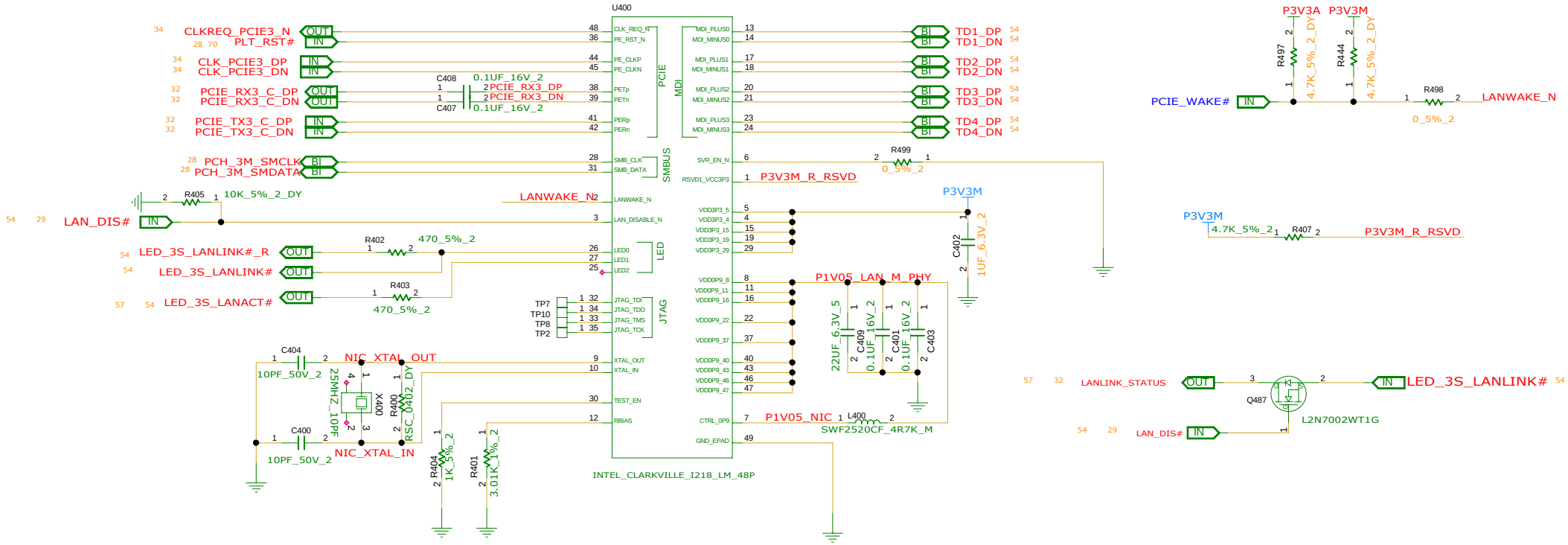
REFERENCE NUMER : 3500~3549

INVENTEC

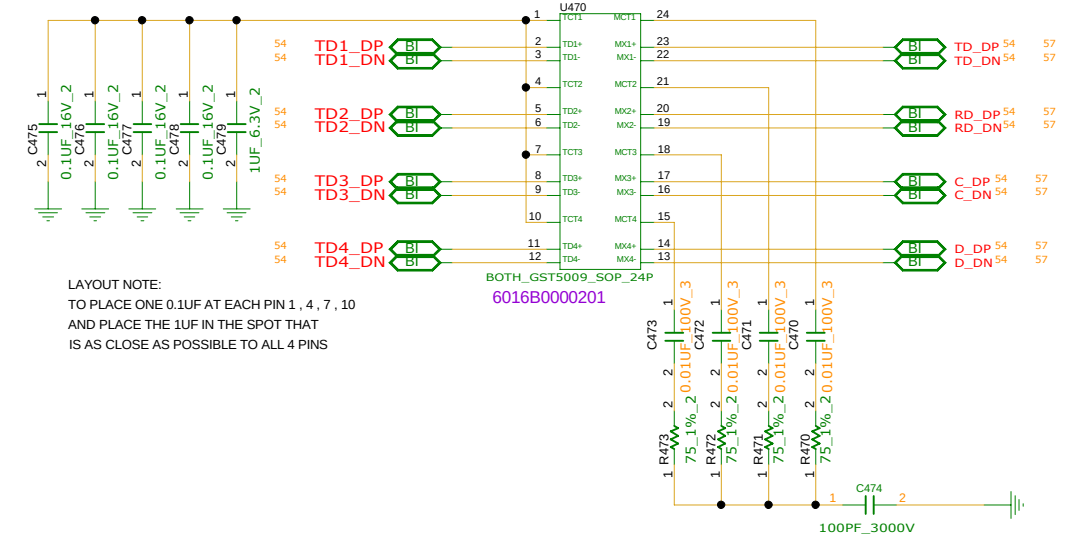
TITLE: MODEL,PROJECT,FUNCTION
TPM

SIZE	CODE	DOC.NUMBER	REV
A3	CS	1310xxxxx-0-0	X01

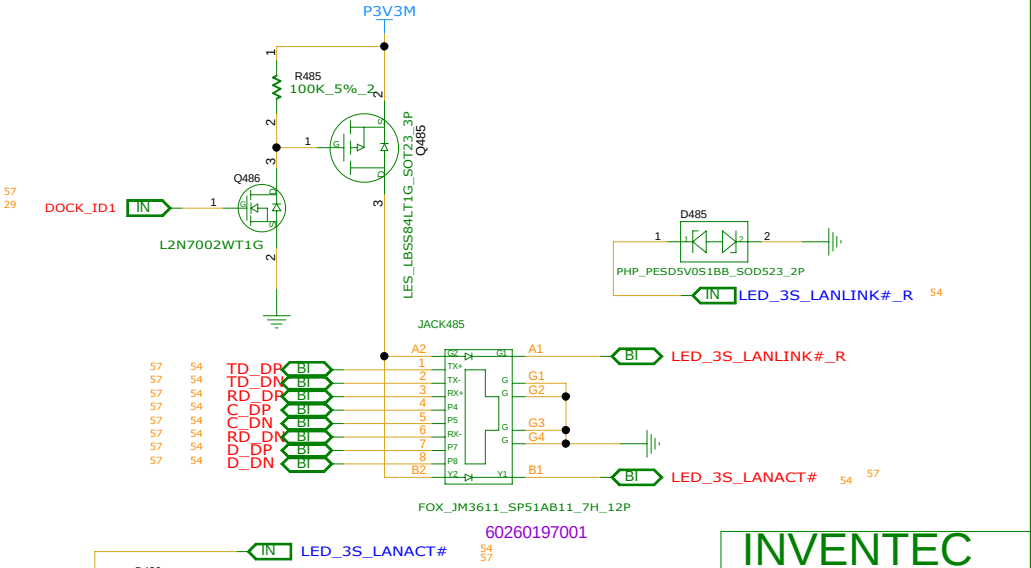
CHANGE by XXX | DATE 21-OCT-2002 | SHEET 53 of 77



REFERENCE NUMER : 470~499

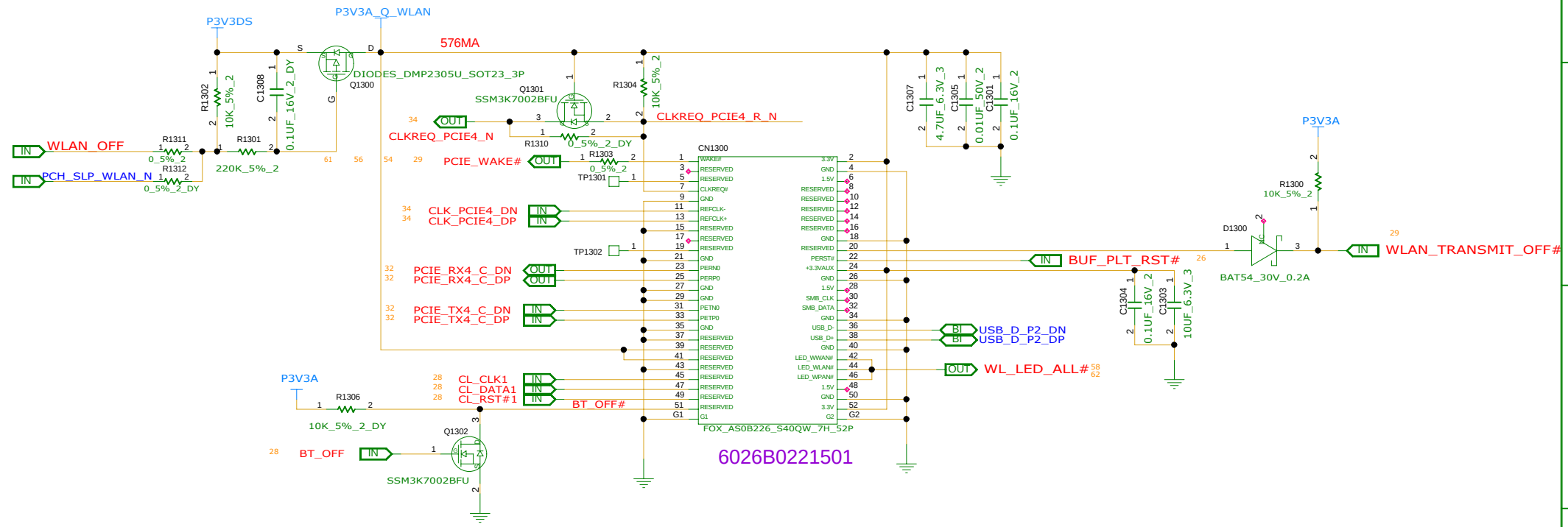


LAYOUT NOTE:
TO PLACE ONE 0.1UF AT EACH PIN 1 , 4 , 7 , 10
AND PLACE THE 1UF IN THE SPOT THAT
IS AS CLOSE AS POSSIBLE TO ALL 4 PINS



INVENTEC

TITLE			
MODEL,PROJECT,FUNCTION LAN (NIC,TRANSFORMER,RJ45)			
SIZE A3	CODE CS	DOC.NUMBER 1310xxxxx-0-0	REV X01
CHANGE by XXX	DATE 21-OCT-2002	SHEET 54 of 77	

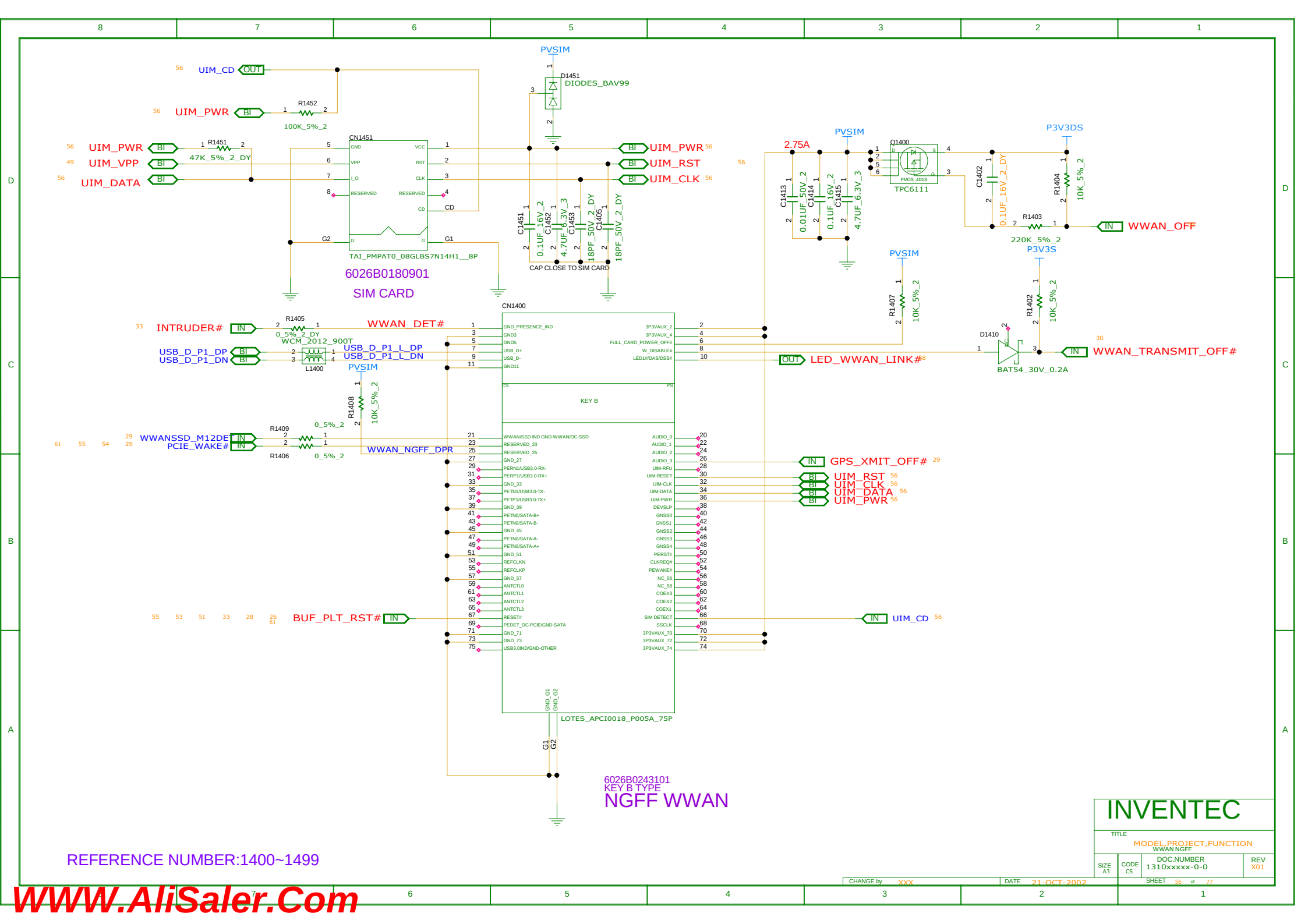


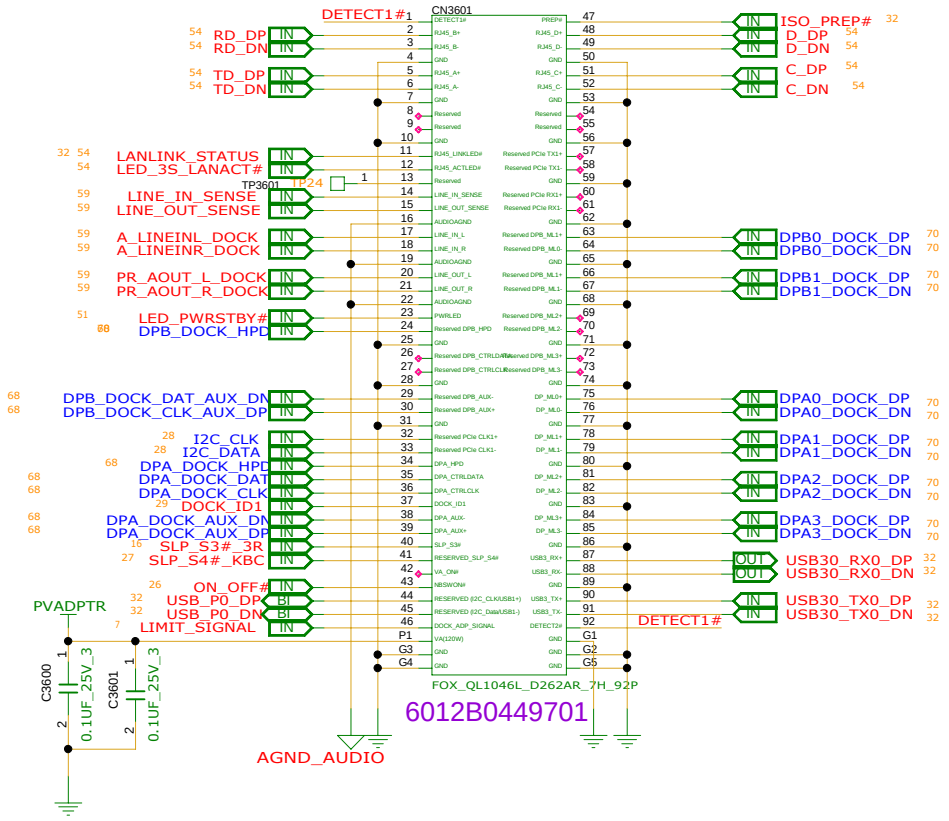
WLAN & BLUE TOOTH

REFERENCE NUMBER:1300~1349

INVENTEC

TITLE: MODEL,PROJECT,FUNCTION — WLAN & BLUE TOOTH			
SIZE A3	CODE CS	DOC.NUMBER 1310xxxxx-0-0	REV X01
CHANGE by XXX	DATE 21-OCT-2002	SHEET 55 of 77	



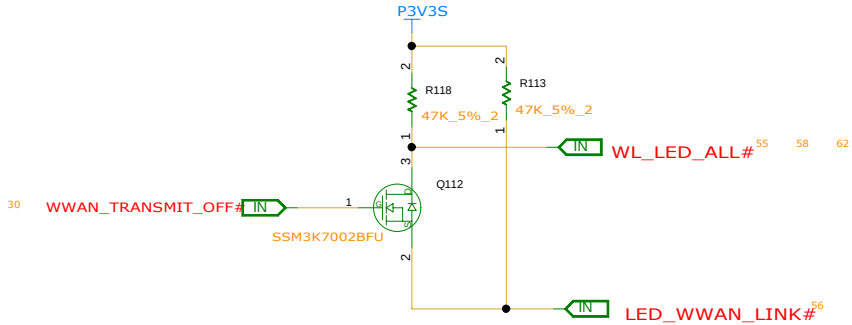


INVENTEC

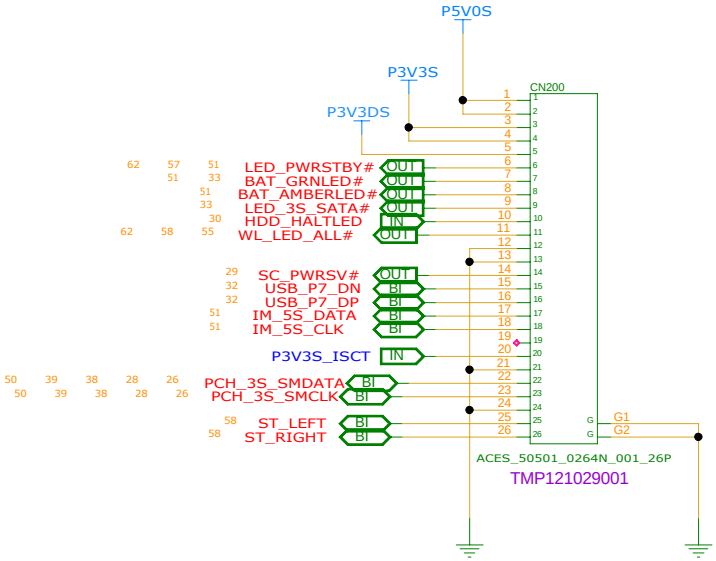
TITLE
MODEL,PROJECT,FUNCTION
DOCKING CONN.

SIZE	CODE	DOC.NUMBER	REV
A3	CS	1310xxxxx-0-0	X01

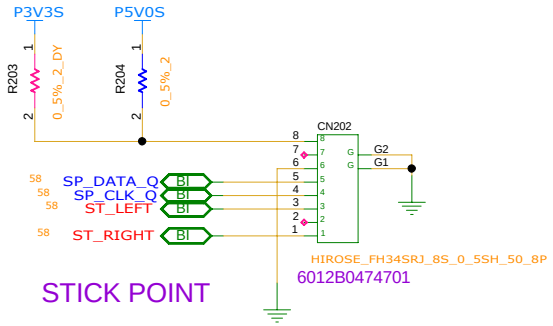
CHANGE by XXX | DATE 21-OCT-2002 | SHEET 57 of 77



WLAN_WWAN_BLUETOOTH_ LED

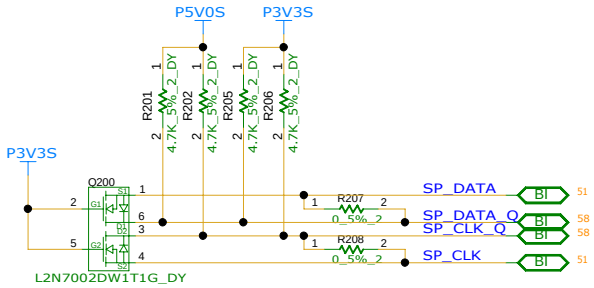


SMART CARD AND TOUCHPAD D/B W TO B CONN



STICK POINT

	5V	3.3V
R201	INSTALL	UNINSTALL
R202	INSTALL	UNINSTALL
R203	UNINSTALL	INSTALL
R204	INSTALL	UNINSTALL



STICK POINT OPTION

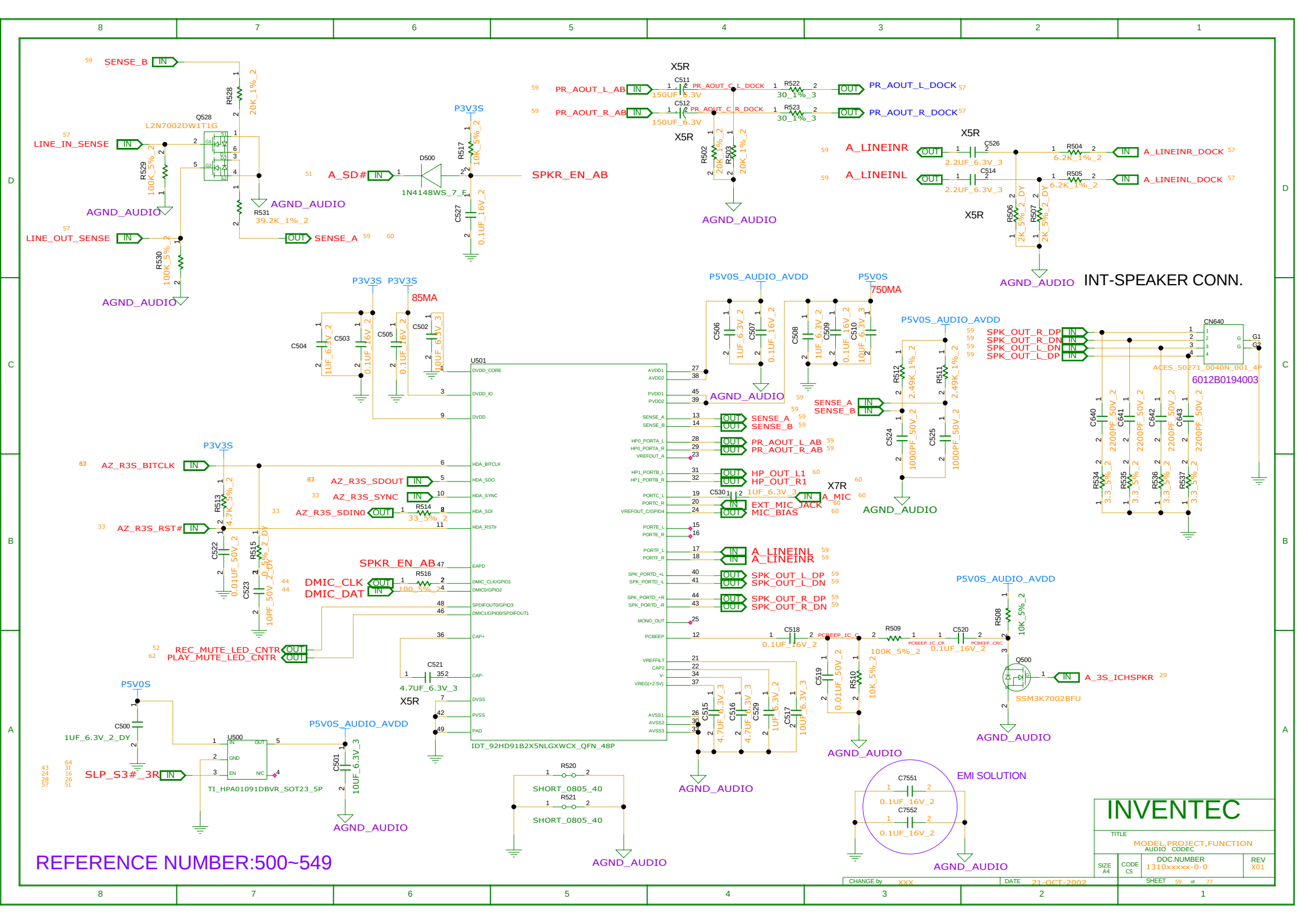
REFERENCE NUMBER:100~199

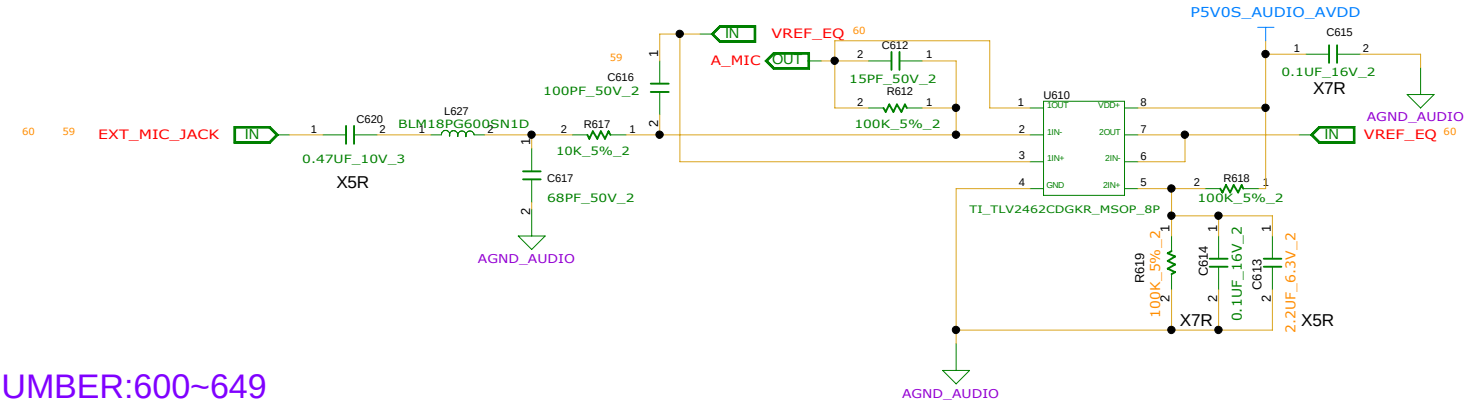
INVENTEC

TITLE: MODEL,PROJECT,FUNCTION
STICK POINT & B2B CNTR

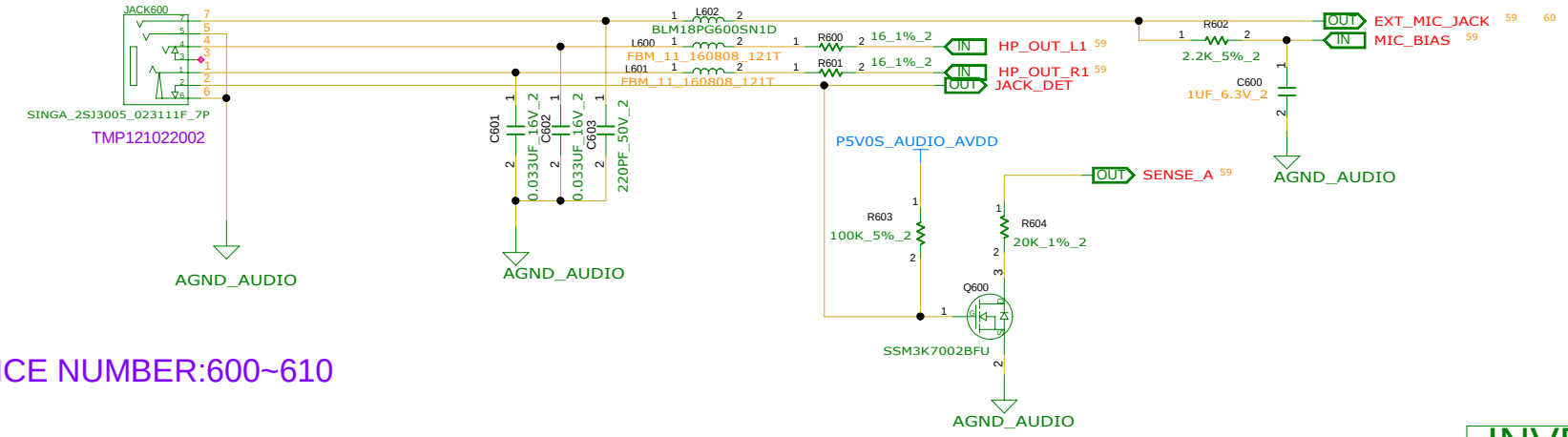
SIZE	CODE	DOC.NUMBER	REV
A3	CS	1310xxxxx-0-0	X01

CHANGE by XXX | DATE 21-OCT-2002 | SHEET 58 of 77


SENSE_B
LINE_IN_SENSE
LINE_OUT_SENSE
Q528
L2N7002DW1T1G
R528 20K_1%_2
R529 100K_5%_2
R530 100K_5%_2
R531 39.2K_1%_2
AGND_AUDIO
SENSE_A
A_SD#
D500
1N4148WS_7_F
R517 10K_5%_2
C527 0.1UF_16V_2
SPKR_EN_AB
P3V3S
PR_AOUT_L_AB
PR_AOUT_R_AB
C511 150UF_6.3V
C512 150UF_6.3V
R522 30_1%_3
R523 30_1%_3
PR_AOUT_L_DOCK
PR_AOUT_R_DOCK
R502 20K_1%_2
R503 20K_1%_2
X5R
A_LINEINR
A_LINEINL
C526 2.2UF_6.3V_3
C514 2.2UF_6.3V_3
R504 6.2K_1%_2
R505 6.2K_1%_2
A_LINEINR_DOCK
A_LINEINL_DOCK
R506 2K_5%_2_DY
R507 2K_5%_2_DY
INT-SPEAKER CONN.
P3V3S
85MA
C504 1UF_6.3V_2
C503 0.1UF_16V_2
C505 0.1UF_16V_2
C502 10UF_6.3V_3
U501
IDT_92HD91B2X5NLGXWCX_QFN_48P
P5V0S_AUDIO_AVDD
P5V0S
750MA
C506 1UF_6.3V_2
C507 0.1UF_16V_2
C508 1UF_6.3V_2
C509 0.1UF_16V_2
C510 10UF_6.3V_3
R512 2.49K_1%_2
R511 2.49K_1%_2
C524 1000PF_50V_2
C525 1000PF_50V_2
SENSE_A
SENSE_B
PR_AOUT_L_AB
PR_AOUT_R_AB
HP_OUT_L1
HP_OUT_R1
EXT_MIC_JACK
MIC_BIAS
X7R
C530 1UF_6.3V_3
A_MIC
A_LINEINL
A_LINEINR
SPK_OUT_L_DP
SPK_OUT_L_DN
SPK_OUT_R_DP
SPK_OUT_R_DN
CN640
ACES_50271_0040N_001_4P
6012B0194003
C640 2200PF_50V_2
C641 2200PF_50V_2
C642 2200PF_50V_2
C643 2200PF_50V_2
R534 3.3_5%_2
R535 3.3_5%_2
R536 3.3_5%_2
R537 3.3_5%_2
AZ_R3S_BITCLK
AZ_R3S_SDOUT
AZ_R3S_SYNC
AZ_R3S_SDIN0
AZ_R3S_RST#
R513 4.7K_5%_2
R514 33_5%_2
R515 0_5%_2_DY
C522 0.01UF_50V_2
C523 10PF_50V_2_DY
SPKR_EN_AB
DMIC_CLK
DMIC_DAT
R516 100_5%_2
REC_MUTE_LED_CNTR
PLAY_MUTE_LED_CNTR
C521 4.7UF_6.3V_3
X5R
P5V0S
C500 1UF_6.3V_2_DY
U500
TI_HPA01091DBVR_SOT23_5P
SLP_S3#_3R
P5V0S_AUDIO_AVDD
C501 10UF_6.3V_3
R520 SHORT_0805_40
R521 SHORT_0805_40
C518 0.1UF_16V_2
R509 100K_5%_2
C520 0.1UF_16V_2
R508 10K_5%_2
C519 0.01UF_50V_2
R510 10K_5%_2
Q500
SSM3K7002BFU
A_3S_ICHSPKR
C515 4.7UF_6.3V_3
C516 4.7UF_6.3V_3
C529 1UF_6.3V_2
C517 10UF_6.3V_3
EMI SOLUTION
C7551 0.1UF_16V_2
C7552 0.1UF_16V_2
REFERENCE NUMBER:500~549
INVENTEC
TITLE
MODEL,PROJECT,FUNCTION
AUDIO CODEC
SIZE A4
CODE CS
DOC.NUMBER 1310xxxxx-0-0
REV X01
CHANGE by XXX
DATE 21-OCT-2002
SHEET 59 of 77



REFERENCE NUMBER:600~649



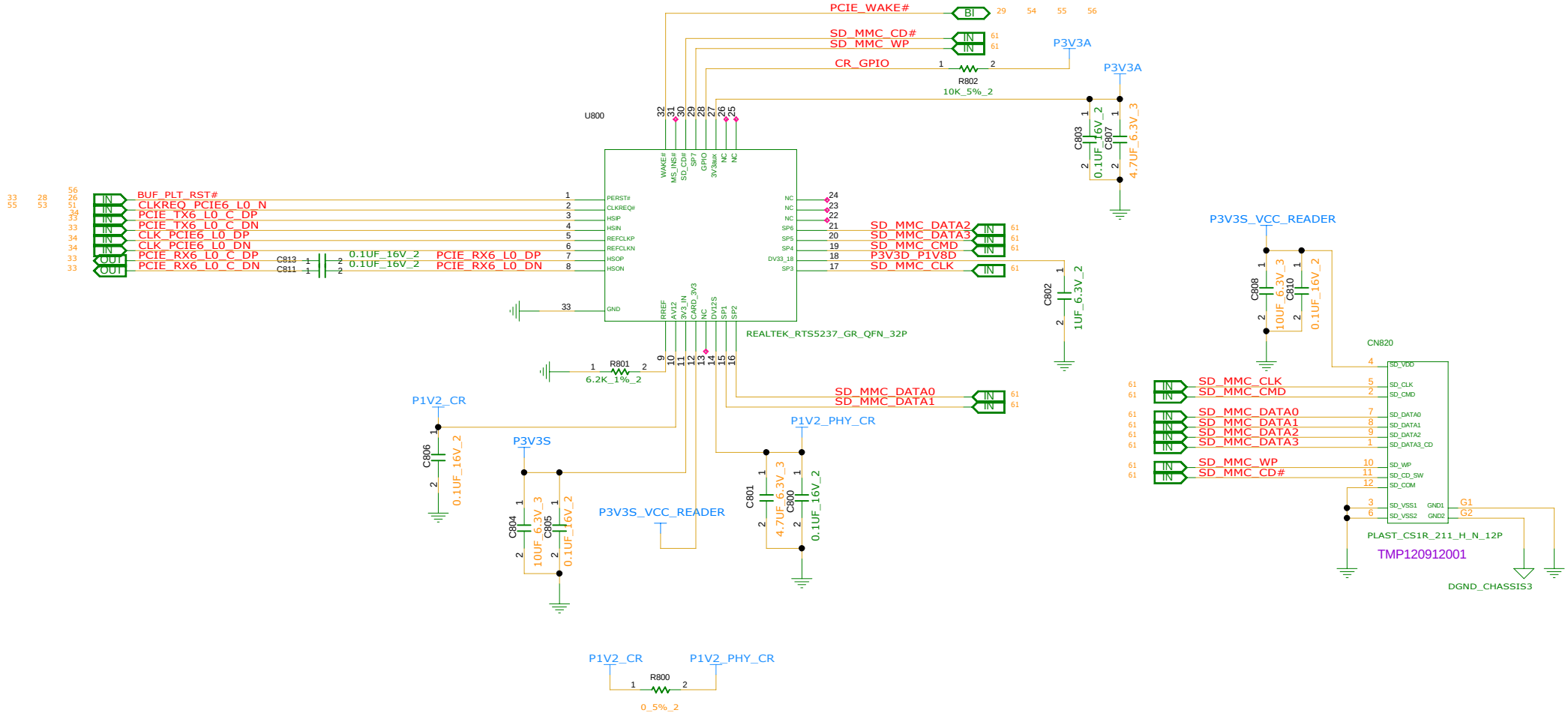
REFERENCE NUMBER:600~610

INVENTEC

TITLE
MODEL,PROJECT,FUNCTION
EXT. MIC AMP. & AUDIO JACK

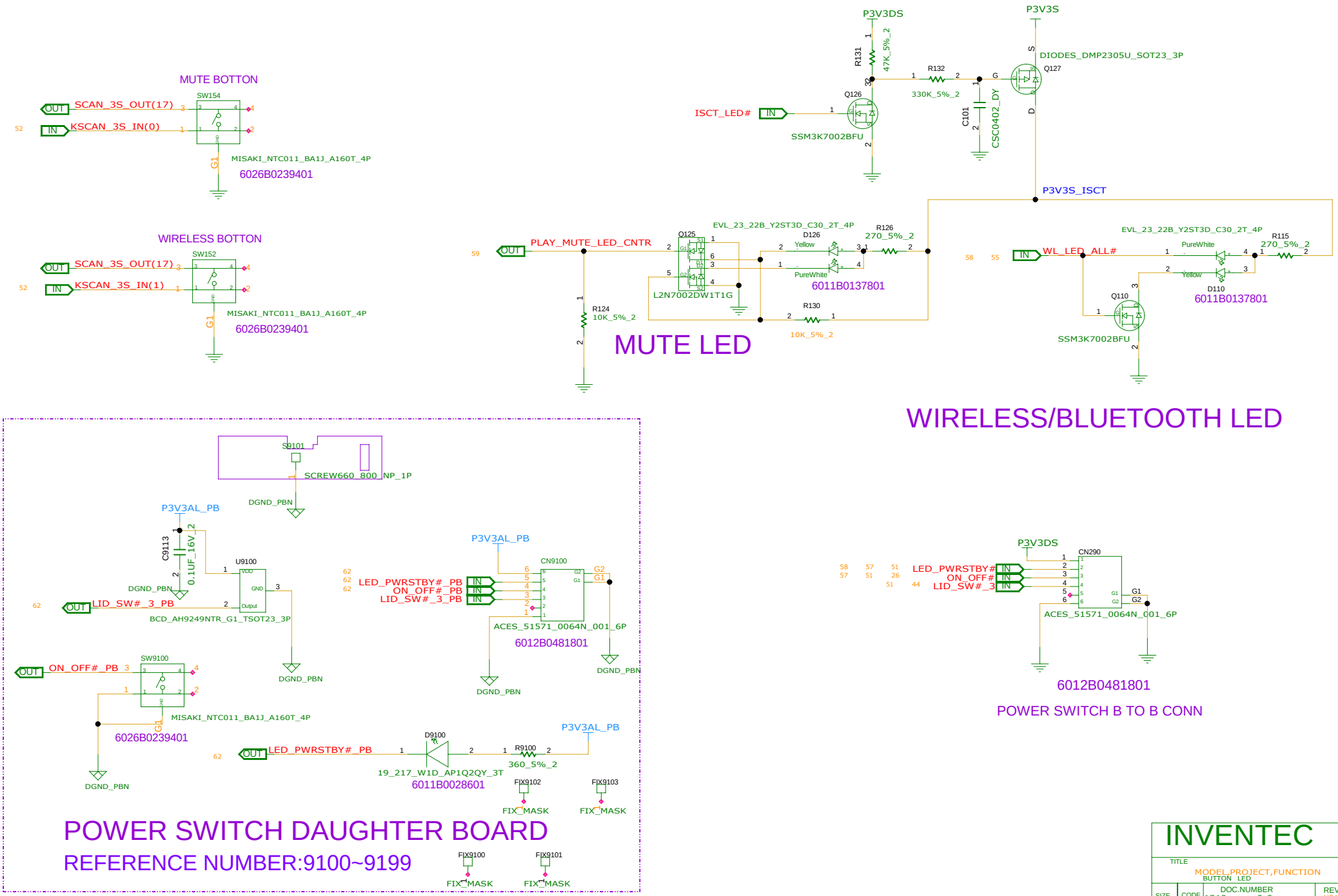
SIZE	CODE	DOC.NUMBER	REV
A3	CS	1310xxxxx-0-0	X01

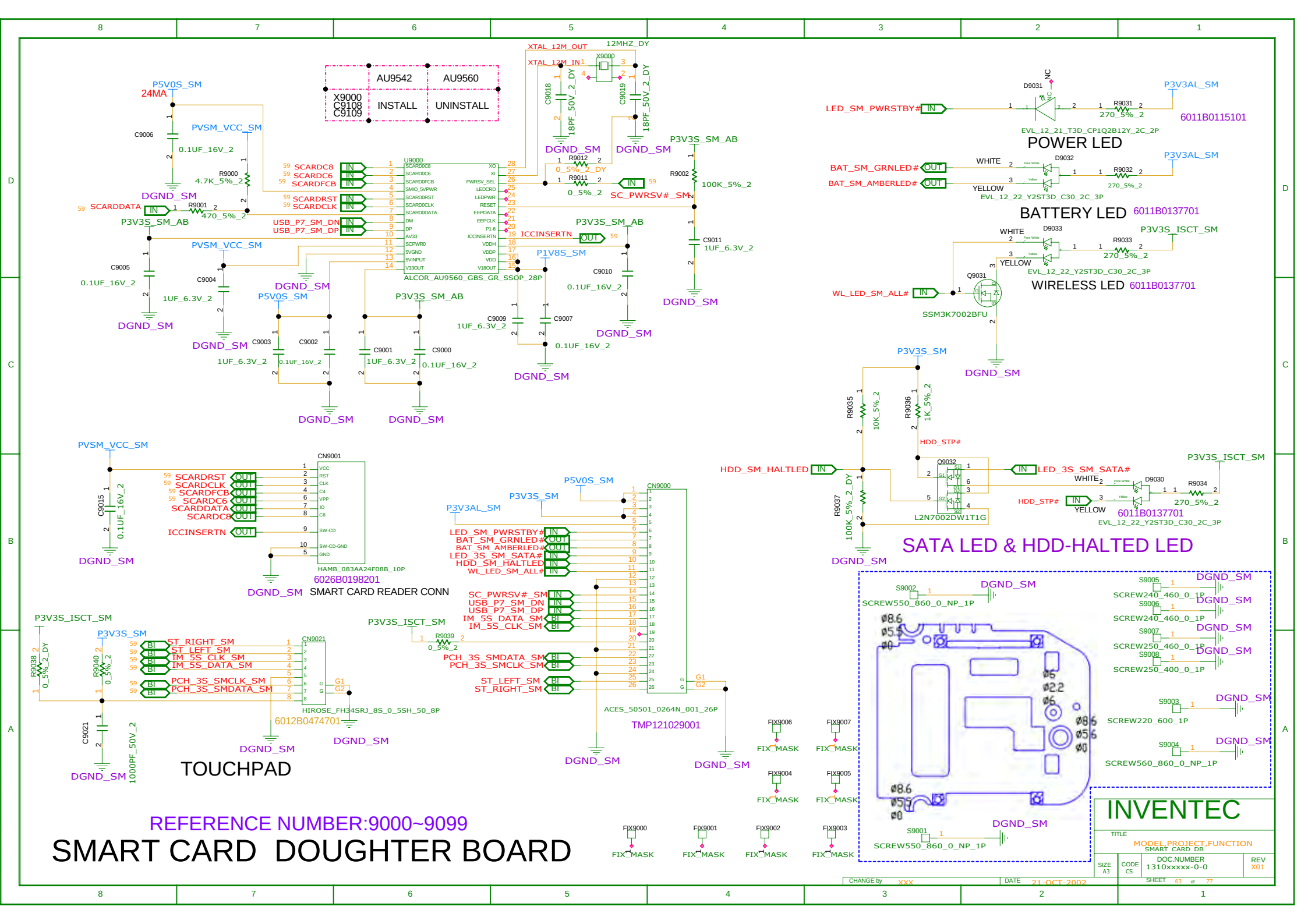
CHANGE by XXX DATE 21-OCT-2002 SHEET 60 of 77

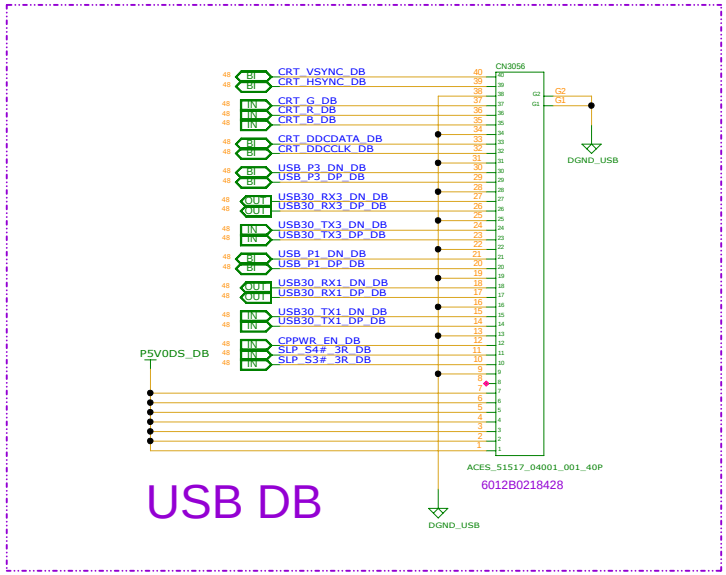


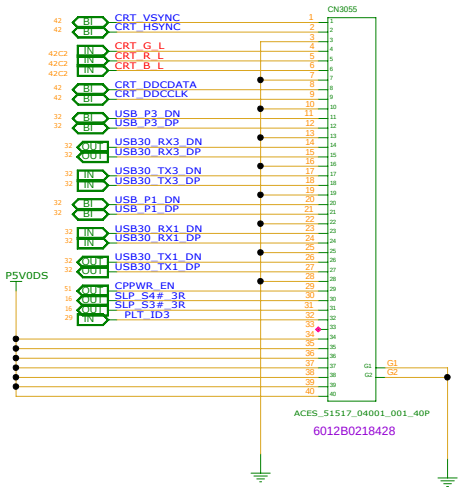
REFERENCE NUMBER:800~899

INVENTEC			
TITLE: MODEL_PROJECT,FUNCTION CARD_READER			
SIZE: A3	CODE: CS	DOC.NUMBER: 1310xxxxx-0-0	REV: X01
CHANGE by: XXX	DATE: 21-OCT-2002	SHEET: 61 of 77	




AU9542 AU9560
X9000 C9108 C9109 INSTALL UNINSTALL
SMART CARD READER CONN
TOUCHPAD
POWER LED
BATTERY LED 6011B0137701
WIRELESS LED 6011B0137701
SATA LED & HDD-HALTED LED
REFERENCE NUMBER:9000~9099
SMART CARD DOUGHTER BOARD
INVENTEC
MODEL,PROJECT,FUNCTION
SMART_CARD_DB
DOC.NUMBER 1310xxxxx-0-0
REV X01
SHEET 63 of 77
DATE 21-OCT-2002
CHANGE by XXX



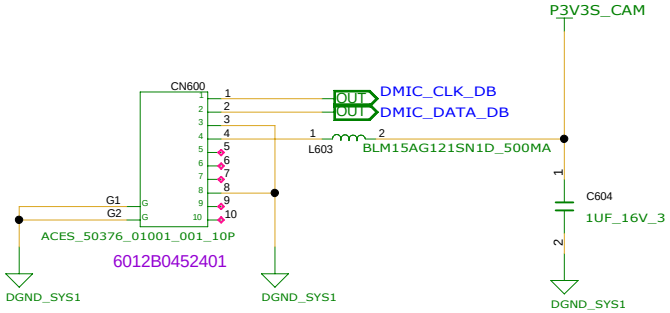


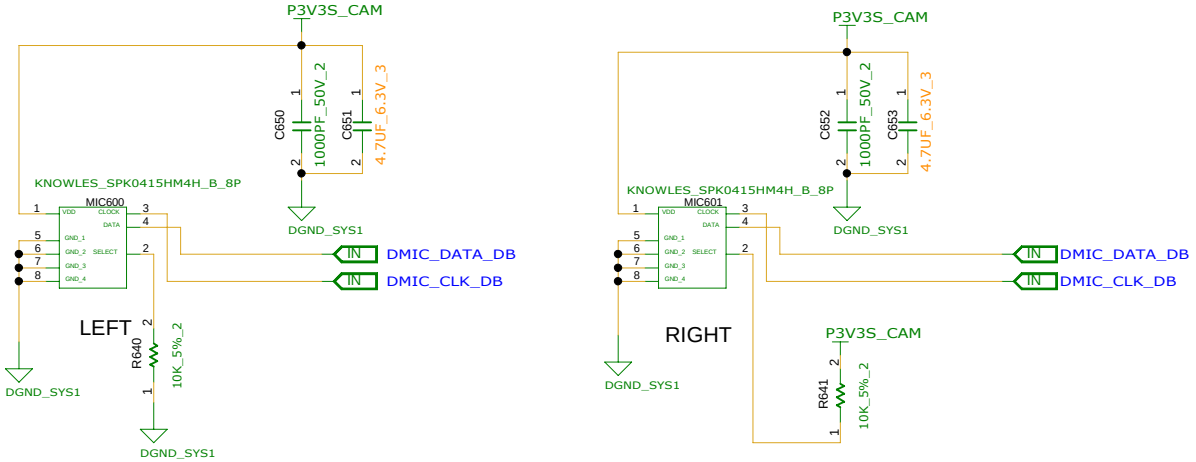
INVENTEC

TITLE: MODEL,PROJECT,FUNCTION
RESERVE

SIZE	CODE	DOC NUMBER	REV
C	CS	1310xxxxx-0-0	X01

CHANGE by: XXX DATE: 21-OCT-2002 SHEET 64 of 72





REFERENCE NUMBER:600~649

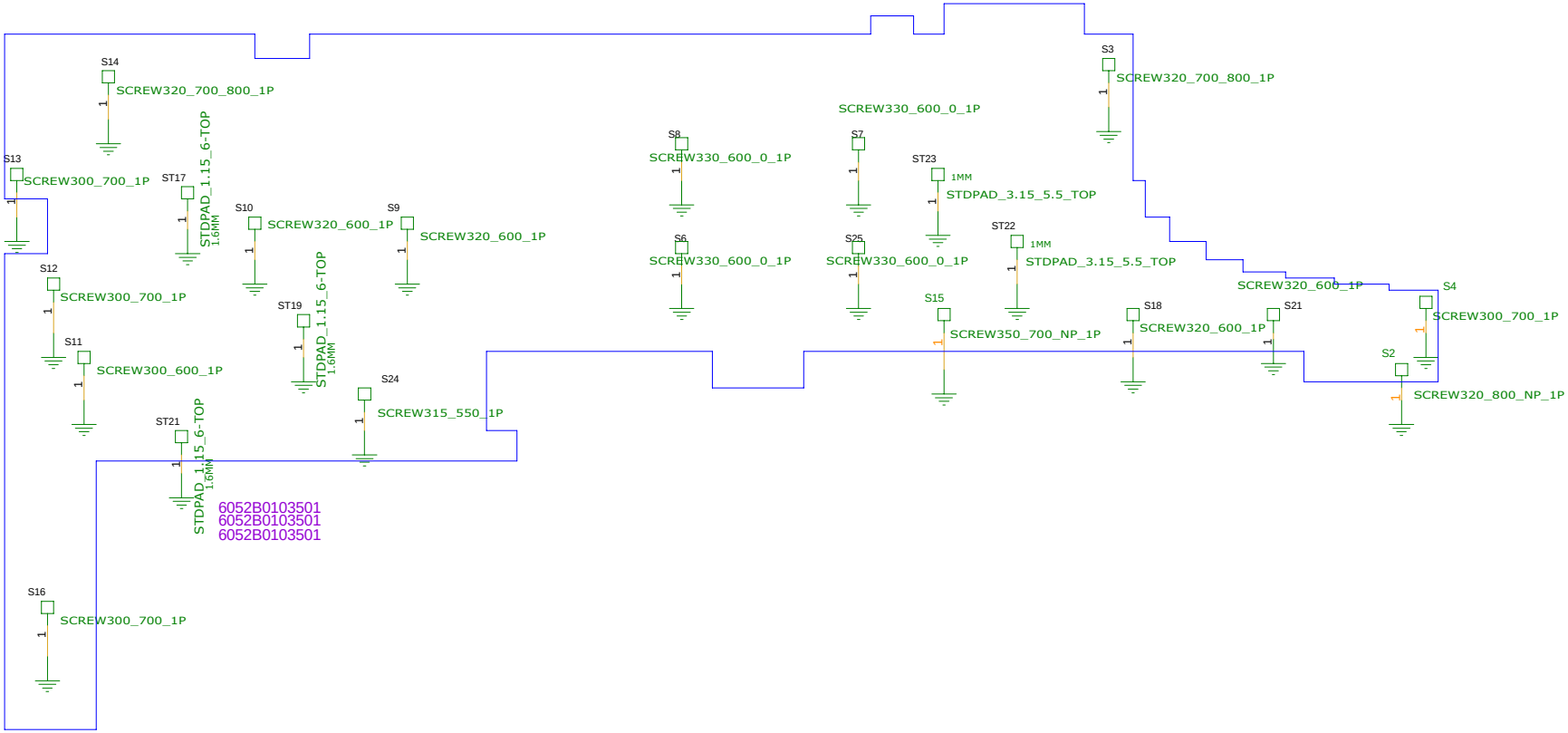
MIC DOUGHTER BOARD

INVENTEC

TITLE: MODEL,PROJECT,FUNCTION
Block Diagram

SIZE	CODE	DOC.NUMBER	REV
A3	CS	1310xxxxx-0-0	X01

CHANGE by XXX | DATE 21-OCT-2002 | SHEET 65 of 77



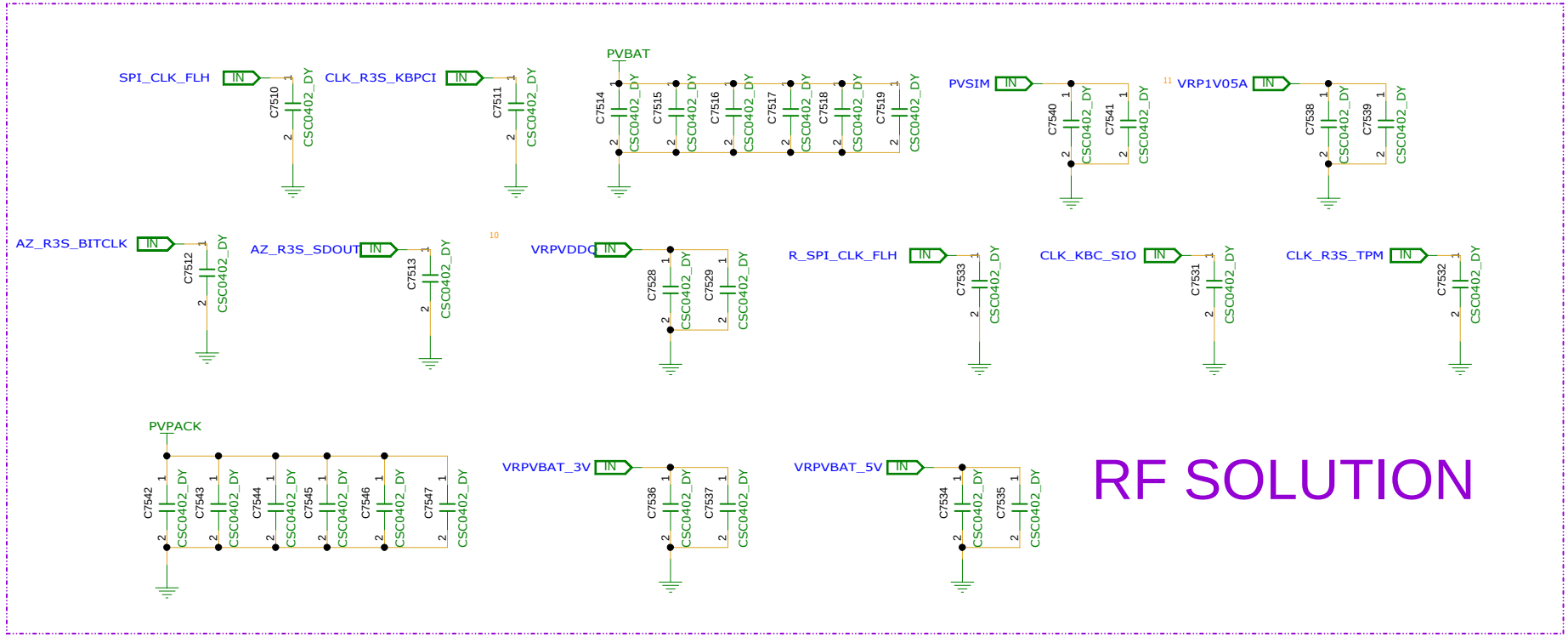
FIX1 FIX_MASK
FIX2 FIX_MASK
FIX3 FIX_MASK
FIX4 FIX_MASK
FIX5 FIX_MASK
FIX6 FIX_MASK
FIX7 FIX_MASK
FIX8 FIX_MASK

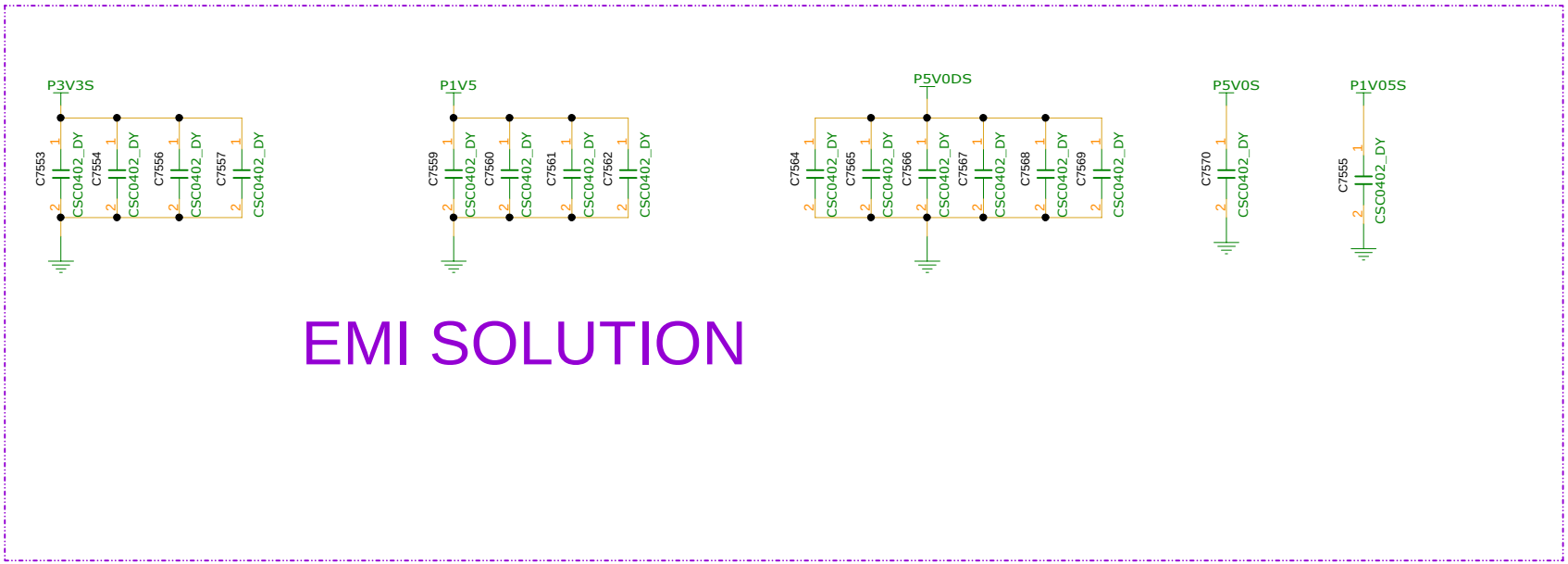
INVENTEC

TITLE
MODEL,PROJECT,FUNCTION
SCREW

SIZE	CODE	DOC.NUMBER	REV
A3	CS	1310xxxxx-0-0	X01

CHANGE by XXX DATE 21-OCT-2002 SHEET 66 of 77





INVENTEC

TITLE: MODEL_PROJECT_FUNCTION EMI & RF SOLUTION			
SIZE A3	CODE CS	DOC.NUMBER 1310xxxxx-0-0	REV X01
CHANGE by XXX	DATE 21-OCT-2002	SHEET 67 of 77	

MLPS TABLE

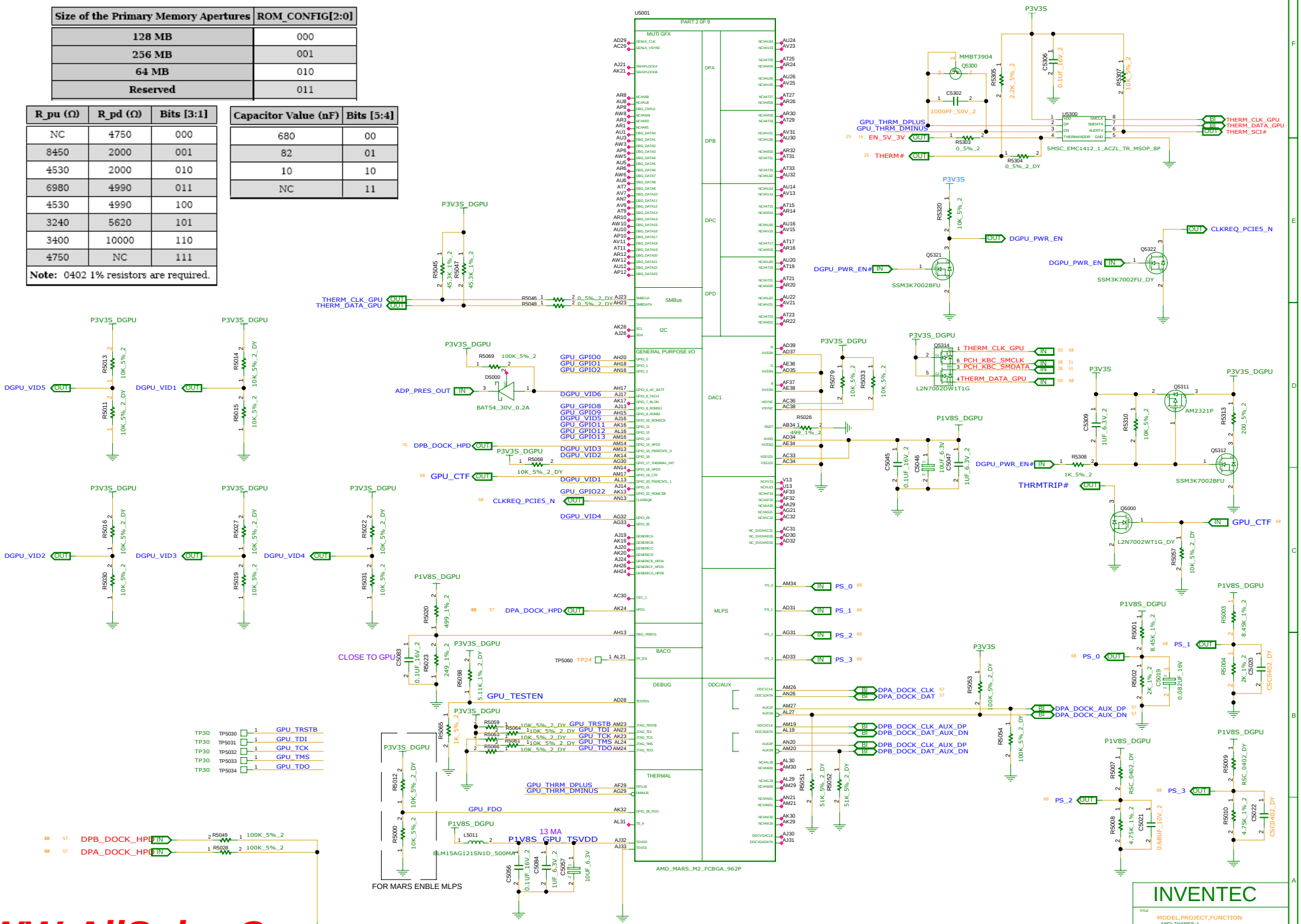
Size of the Primary Memory Apertures	ROM_CONFIG[2:0]
128 MB	000
256 MB	001
64 MB	010
Reserved	011

R_pu (Ω)	R_pd (Ω)	Bits [3:1]
NC	4750	000
8450	2000	001
4530	2000	010
6980	4990	011
4530	4990	100
3240	5620	101
3400	10000	110
4750	NC	111

Note: 0402 1% resistors are required.

Capacitor Value (nF)	Bits [5:4]
680	00
82	01
10	10
NC	11

THERM SENSOR



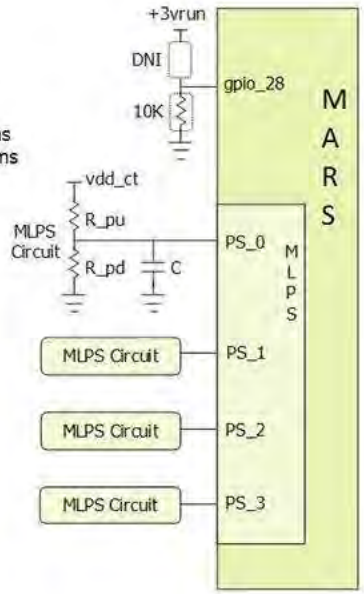
INVENTEC

MODEL,PROJECT,FUNCTION
AMD-THAMES-1

LPT-LP GPIO 34	MARS MLPS Bit: PS_3 [3:1]			R_pu (Ω)	R_pd (Ω)	Vendor & PN	Die Ver.	
0	0	0	0	NC	4750	Samsung - K4G20325FD-FC04	D	GDDR5 - 64Mx32/128Mx16, 1.5V/1.35V, 5.0Gbps/4Gbps
	0	0	1	8450	2000	Hynix - H5GQ2H24AFR-T2C	A (Gemma)	GDDR5 - 64Mx32/128Mx16, 1.5V/1.35V, 5.0Gbps/4Gbps
1	1	1	0	3400	10000	*Samsung - K4G41325FC-HC04	C	*GDDR5 - 128Mx32/256Mx16, 1.5V/1.35V, 5.0Gbps/4Gbps
	1	1	1	4759	NC	*Hynix - H5GC4H24MFR-T0C	Huma	*GDDR5 - 128Mx32/256Mx16, 1.5V/1.35V, 5.0Gbps/4Gbps
VBIOS selection : 0 : VBIOS 1, 64Mx32 for 1GB sku 1 : VBIOS 2, 128Mx32 for 2GB sku	Vram configuration 00: 64Mx32 (2Gb) 11: 128Mx32 (4Gb)		Vendor ID 0: Samsung 1: Hynix	Resistor Divider Lookup Table		Vram information * 2GB sku, TBD		

MLPS Implementation

- Connect GPIO_28 to 10K pulldown to enable MLPS
- If any of PS_0/1/2/3 is not used, leave "no connect"
- R_pu, R_pd and C must be properly populated per tables below
- Place MLPS circuit components as close to the ASIC as possible
- Total DC resistance of trace between PS pin and C should be less than 2 ohms
- Total DC resistance of trace between C and ground should be less than 2 ohms
- Trace capacitance should be less than 100pF. Resistors should be of +/-1% tolerance



Capacitor Lookup Table

C (nF)	Bits(5,4)
680	00
82	01
10	10
NC	11

Resistor Divider Lookup Table

R_pu (Ohm)	R_pd (Ohm)	Bits(3,2,1)
NC	4750	000
8450	2000	001
4530	2000	010
6980	4990	011
4530	4990	100
3240	5620	101
3400	10000	110
4750	NC	111

Pin/Bit	Name	Description	Default	Legacy
PS_0[3:1]	romidcfg[2:0]	Memory aperture size or ROM type select: If bios_rom_en = 0, romidcfg[2:0] define memory aperture size If bios_rom_en = 1, romidcfg[2:0] define ROM type	xxx	gpio_13 gpio_12 gpio_11
PS_0[4]	n/a	Reserved	1	genlk_vsync
PS_1[1]	bif_gen3_en_a	PCIe Gen3 capability: 1=Gen3 supported, 0=Gen3 not supported	x	gpio_2
PS_1[2]	bif_clk_pm_en	PCIe Clk PM capability: 1 = CLKREQB supported	x	gpio_8
PS_1[3]	n/a	Reserved		genlk_clk
PS_1[4]	tx_pwrs_enb	PCIe Tx power savings: 0=50% swing, 1=full swing	x	gpio_0
PS_1[5]	tx_deemph_en	PCIe Tx de-emphasis: 1=Tx de-emphasis enabled	x	gpio_1
PS_2[1]	n/a	Reserved		n/a
PS_2[2]	n/a	Reserved		n/a
PS_2[3]	bios_rom_en	Enable external BIOS ROM: 1=External ROM connected	x	gpio_22
PS_2[4]	vga_dis	VGA disable: 1=Disable this GPU as the system's VGA controller	0	gpio_9
PS_2[5]	n/a	Reserved		n/a
PS_3[1]	MEM Vendor ID	MEM Vendor ID	0	n/a
PS_3[2]	MEM Vendor ID	MEM Vendor ID	0	n/a
PS_3[3]	MEM Vendor ID	MEM Vendor ID	0	n/a
PS_3[5] PS_3[4] PS_0[5]	aud_port_cp[2] aud_port_cp[1] aud_port_cp[0]	3-bit field indicating number of audio-capable display outputs	xxx	n/a

MLPS Bit	Strap Name	Description
PS_0[1]	ROM_CONFIG[0]	See Primary Memory Aperture Sizes.
PS_0[2]	ROM_CONFIG[1]	
PS_0[3]	ROM_CONFIG[2]	
PS_0[4]	N/A	Reserved for internal use only. **Must be 1 at reset.**
PS_0[5]	AUD_PORT_CONN_PINSTRAP[0]	The LSB (least significant bit) of thestrap option that indicates thenumber of audio-capable displayoutputs.
PS_1[1]	STRAP_BIF_GEN3_EN_A	PCIe GEN3 capability. **1 = PCIe GEN3 is supported.**
PS_1[2]	STRAP_BIF_CLK_PM_EN	Determines whether or not thePCIe reference clock powermanagement capability is reportedin the PCI configuration space(otherwise known as CLKREQB). **0 = The CLKREQB powermanagement capability is disabled**
PS_1[3]	N/A	Reserved for internal use only. **Must be 0 at reset.**
PS_1[4]	STRAP_TX_CFG_DRV_FULL_SWING	Control the transmitter full-/half-swing mode **1 = The transmitter full-swing isenabled**
PS_1[5]	STRAP_TX_DEEMPH_EN	PCI EXPRESS® transmitter, de-emphasis enable. **1 = Tx deemphasis enabled.**
PS_2[1]	N/A	Reserved.
PS_2[2]	N/A	Reserved.
PS_2[3]	STRAP_BIOS_ROM_EN	To enable the external BIOS ROMdevice. **0 = Disable the external BIOS ROMdevice.**
PS_2[4]	STRAP_BIF_VGA_DIS	VGA disable determines whether ornot the card will be recognized asthe system's VGA controller(through the SUBCLASS field in thePCI configuration space). **0 = VGA controller capacityenabled.**
PS_2[5]	N/A	Reserved

PS_2[1]	N/A	Reserved.
PS_2[2]	N/A	Reserved.
PS_2[3]	STRAP_BIOS_ROM_EN	To enable the external BIOS ROMdevice. **0 = Disable the external BIOS ROMdevice.**
PS_2[4]	STRAP_BIF_VGA_DIS	VGA disable determines whether ornot the card will be recognized asthe system's VGA controller(through the SUBCLASS field in thePCI configuration space). **0 = VGA controller capacityenabled.**
PS_2[5]	N/A	Reserved
PS_3[1]	BOARD_CONFIG[0]	See **Board** configuration relatedstrapping, such as for **memory ID.**
PS_3[2]	BOARD_CONFIG[1]	
PS_3[3]	BOARD_CONFIG[2]	
PS_3[4]	AUD_PORT_CONN_PINSTRAP[1]	Determines the maximum numberof digital display audio endpointsthat will be presented to the OS anduser. 111 = No usable endpoints. 110 = One usable endpoint. **101 = Two usable endpoints.** 100 = Three usable endpoints. 011 = Four usable endpoints. 010 = Five usable endpoints. 001 = Six usable endpoints. 000 = All endpoints are usable.
PS_3[5]	AUD_PORT_CONN_PINSTRAP[2]	

Note : AUD[1] (on HYSNC) and AUD[0] (on VSYNC) still need to be properly pin strapped evenin a MLPS-based design.

INVENTEC

TITLE: MODEL,PROJECT,FUNCTION
Block Diagram

SIZE C | CODE CS | DOC NUMBER 1310xxxx-0-0 | REV X01

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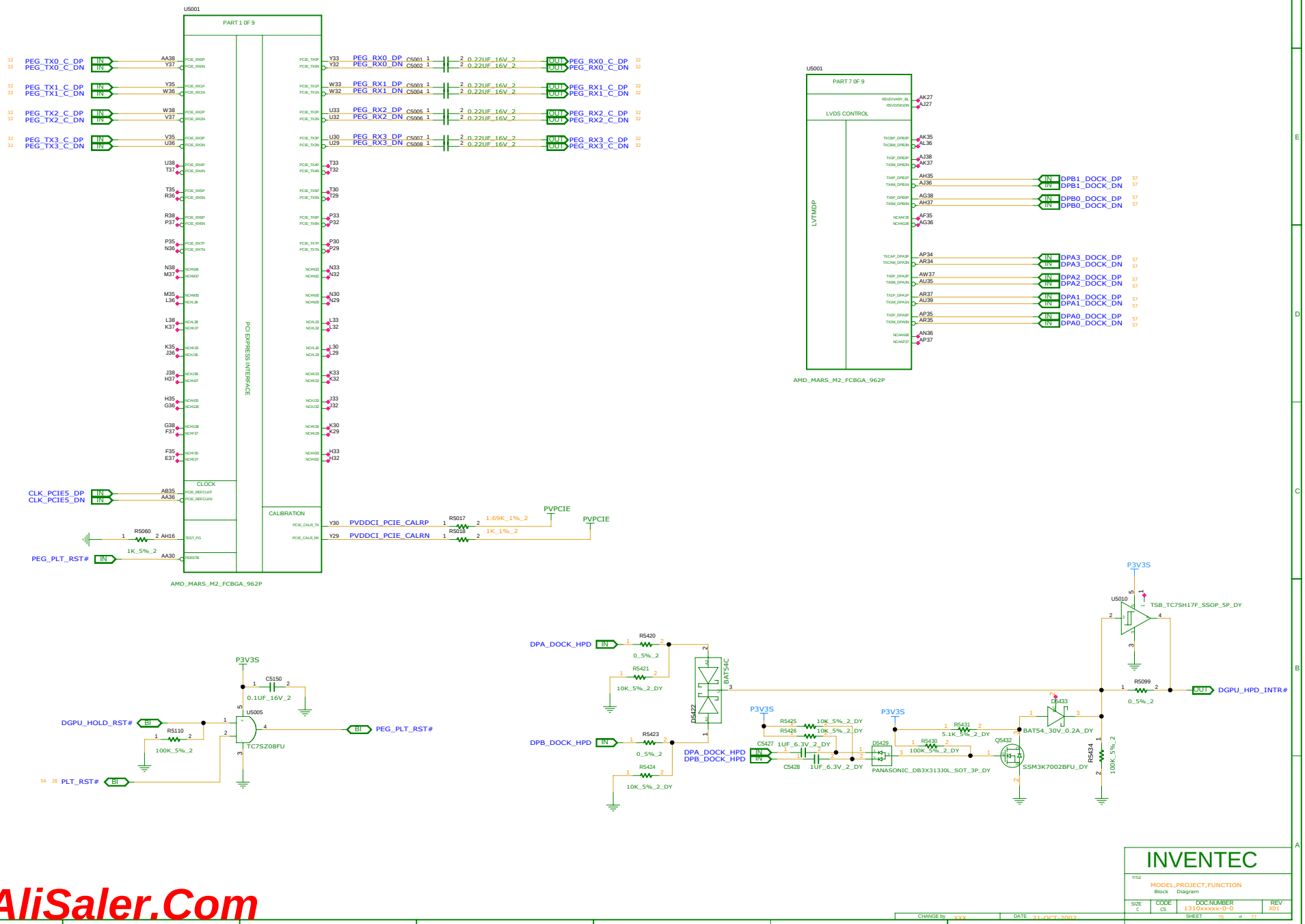

INVENTEC

MODEL,PROJECT,FUNCTION
Block Diagram

SIZE	CODE	DOC NUMBER	REV
C	CS	1310xxxxx-D-D	X01

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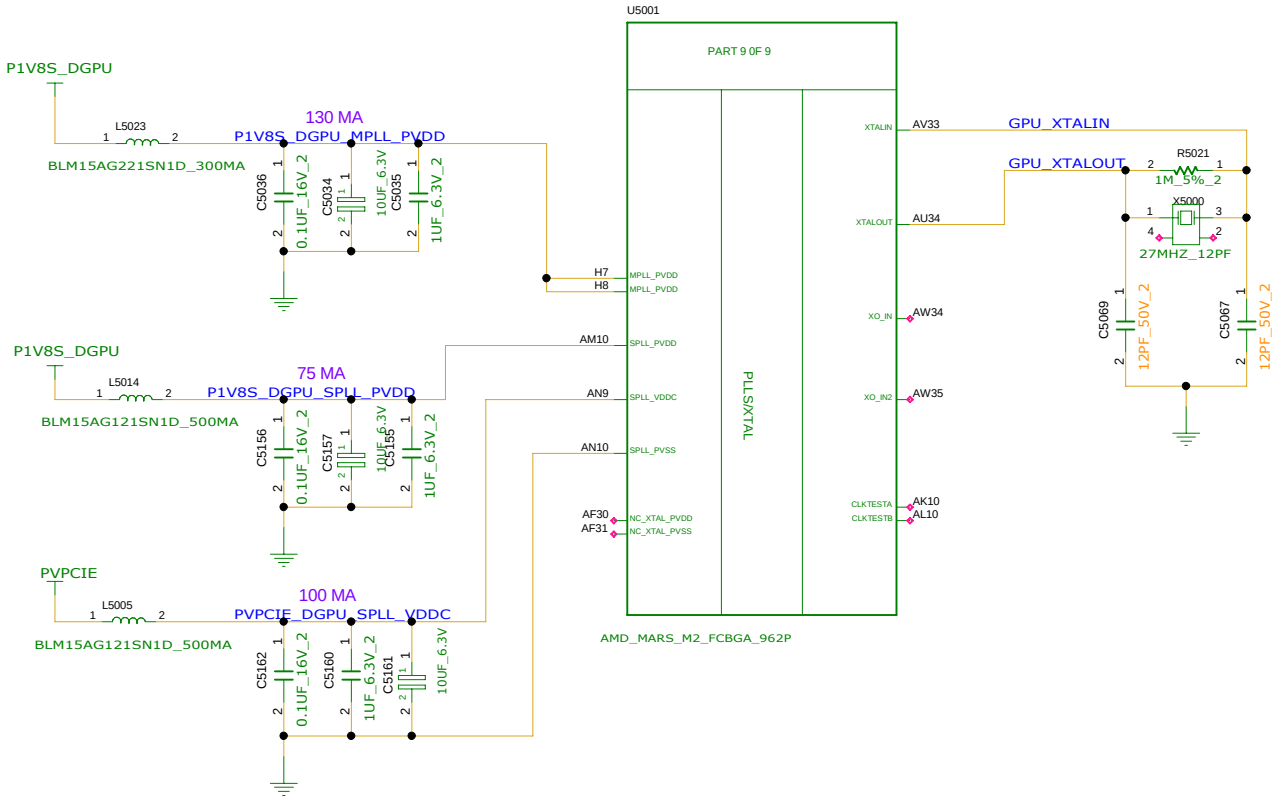
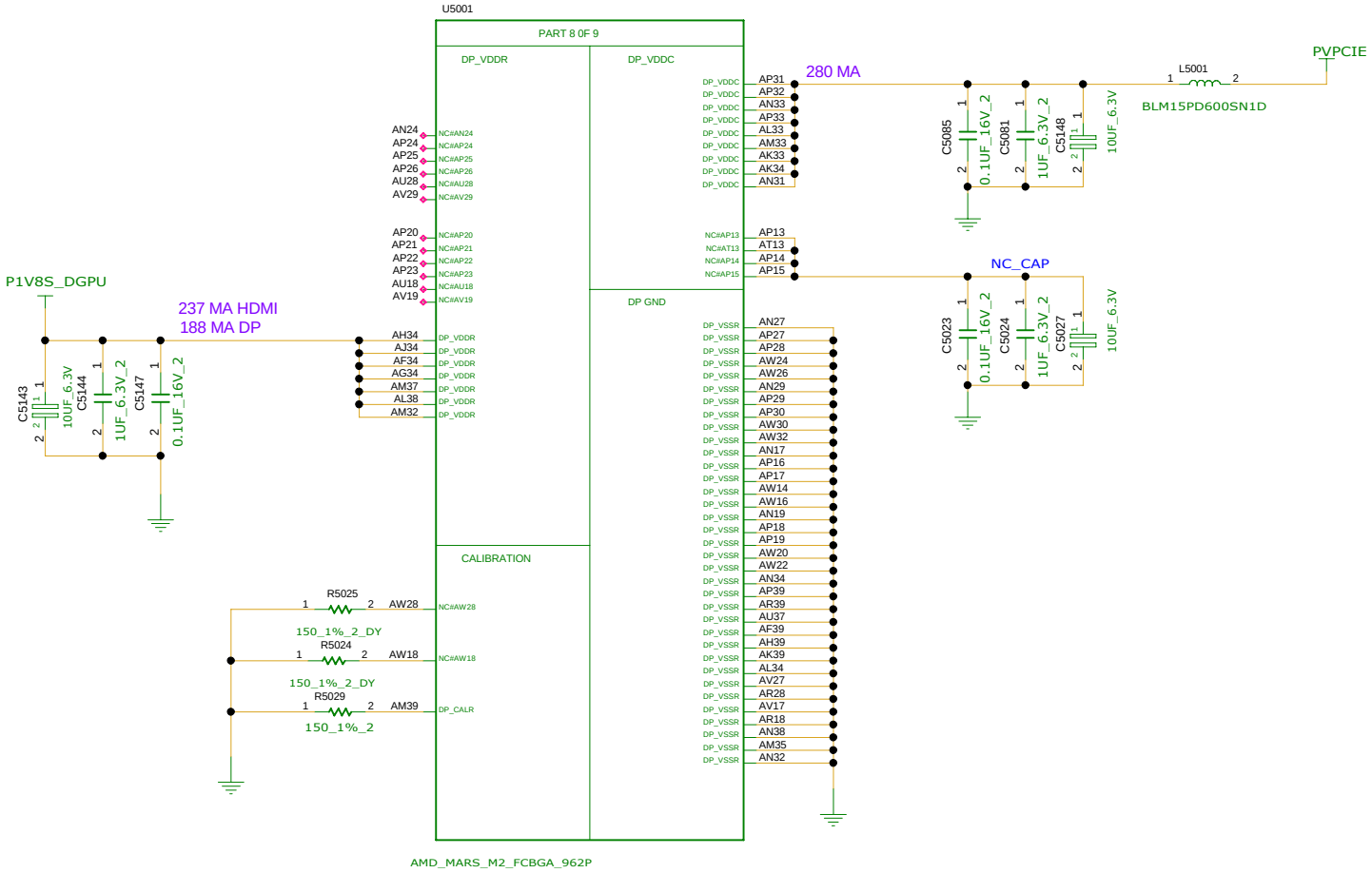


INVENTEC

TITLE
MODEL,PROJECT,FUNCTION
Block Diagram

SIZE	CODE	DOC.NUMBER	REV
A3	CS	1310xxxxx-0-0	X01

CHANGE by XXX | DATE 21-OCT-2002 | SHEET 71 of 77

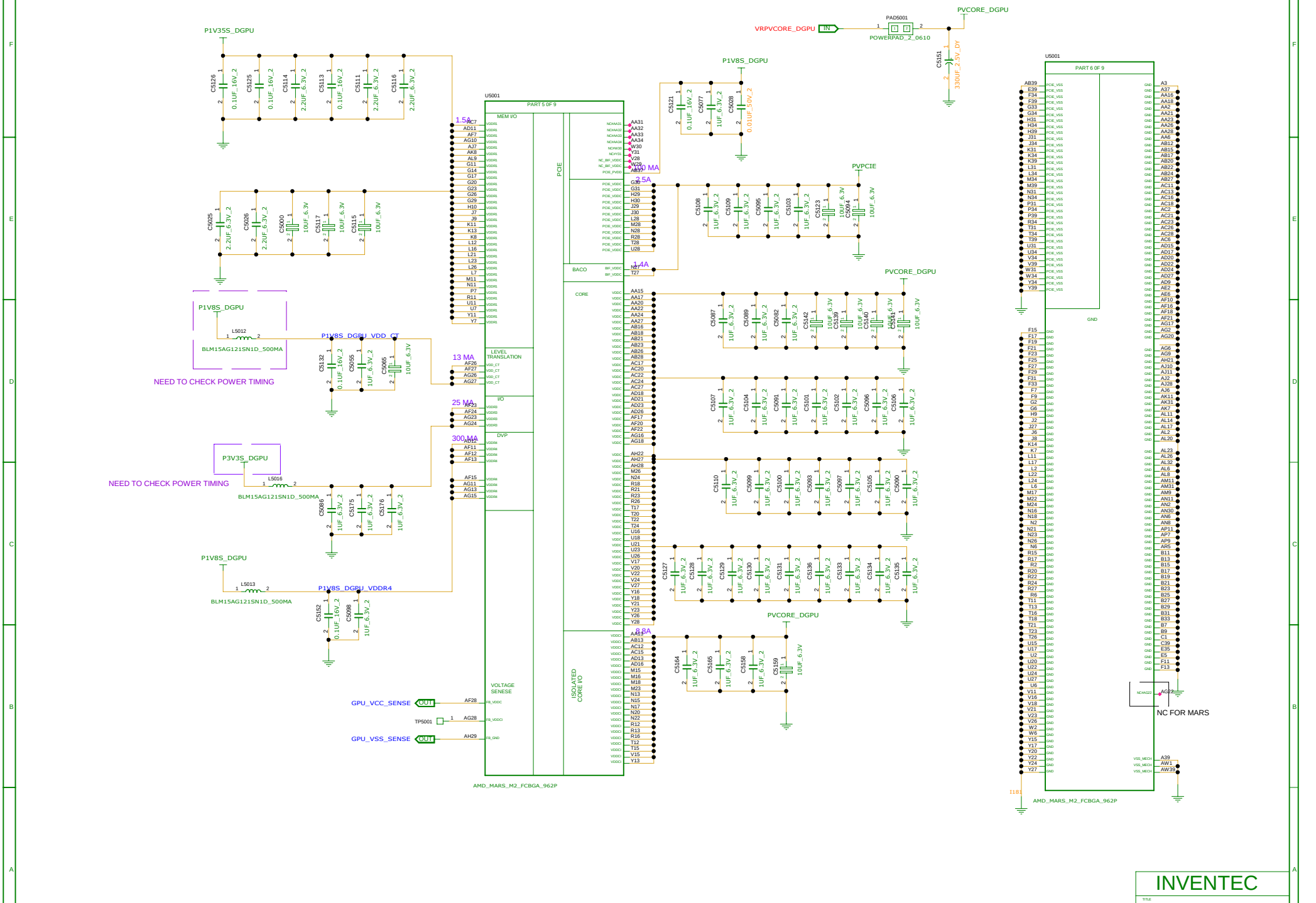


INVENTEC

TITLE: MODEL,PROJECT,FUNCTION
Block Diagram

SIZE	CODE	DOC.NUMBER	REV
A3	CS	1310xxxxx-0-0	X01

CHANGE by XXX | DATE 21-OCT-2002 | SHEET 72 of 77



INVENTEC

MODEL,PROJECT,FUNCTION
AMD-THAMES-1

SIZE	CODE	DOC NUMBER	REV
C	CS	1310xxxxx-0-0	X01

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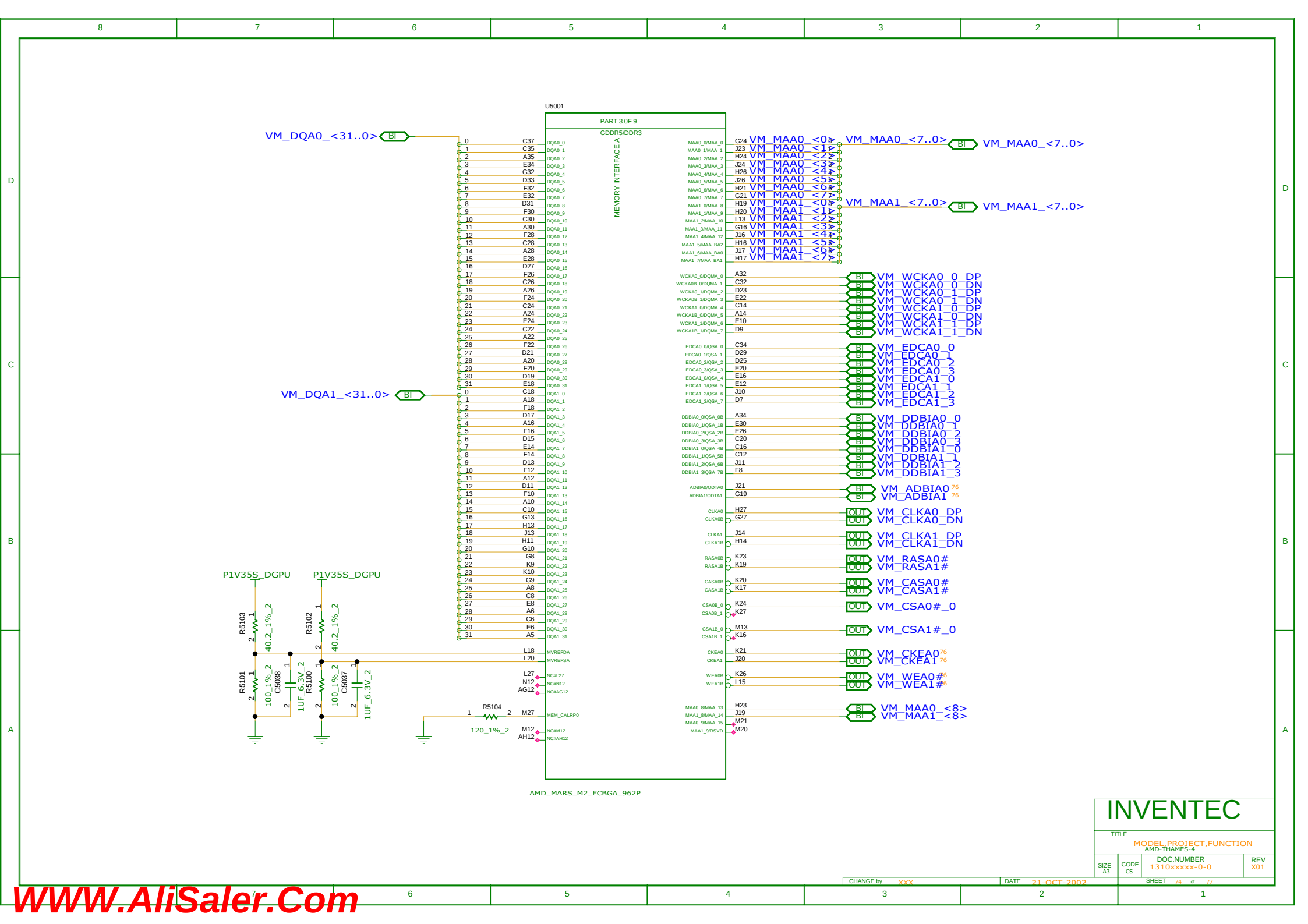
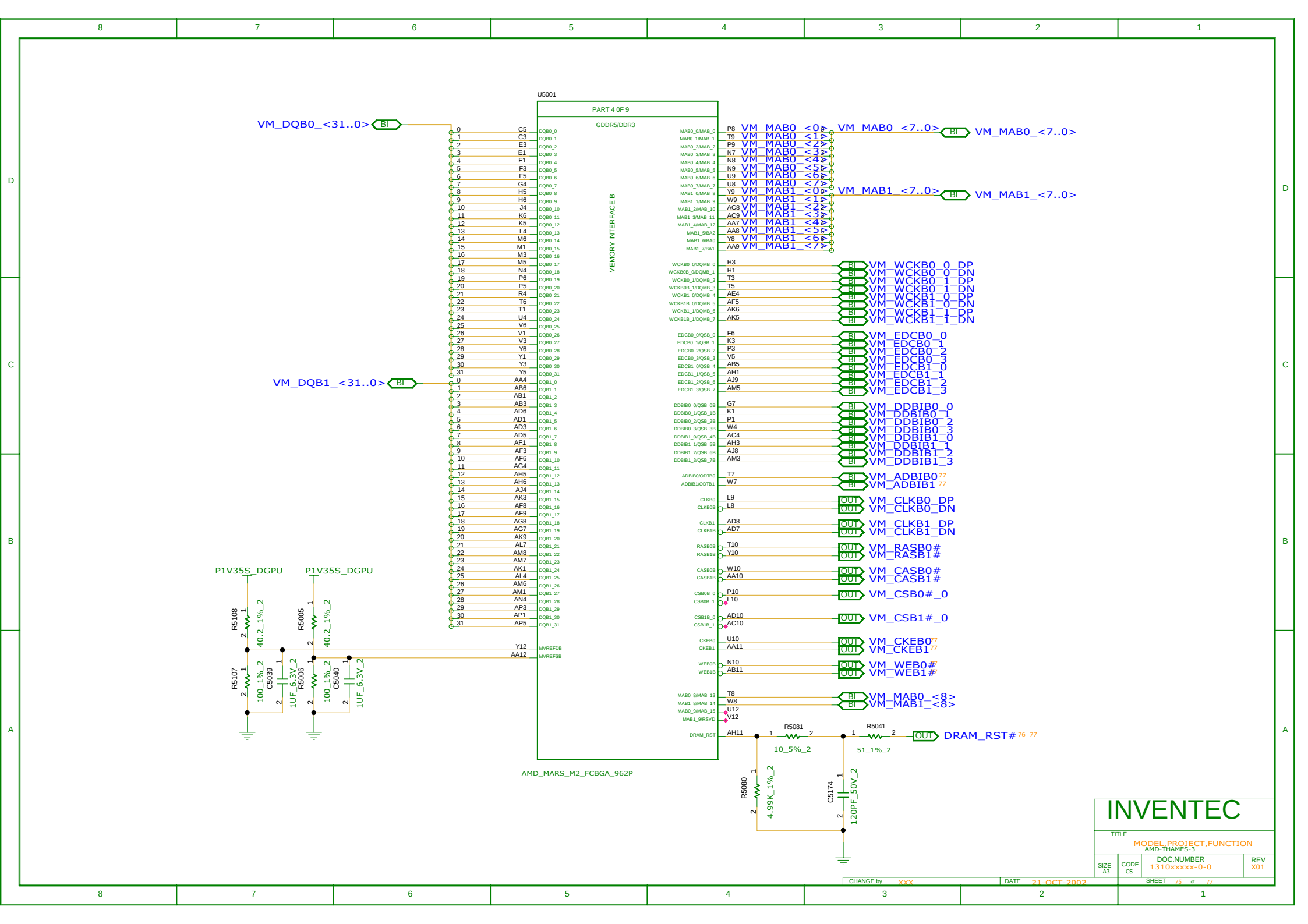


TITLE	MODEL,PROJECT,FUNCTION AMD-THAMES-4
SIZE	A3
CODE	CS
DOC.NUMBER	1310xxxxx-0-0
REV	X01
CHANGE by	XXX
DATE	21-OCT-2002
SHEET	74 of 77



TITLE	MODEL,PROJECT,FUNCTION AMD-THAMES-3
SIZE	A3
CODE	CS
DOC.NUMBER	1310xxxxx-0-0
REV	X01
CHANGE by	XXX
DATE	21-OCT-2002
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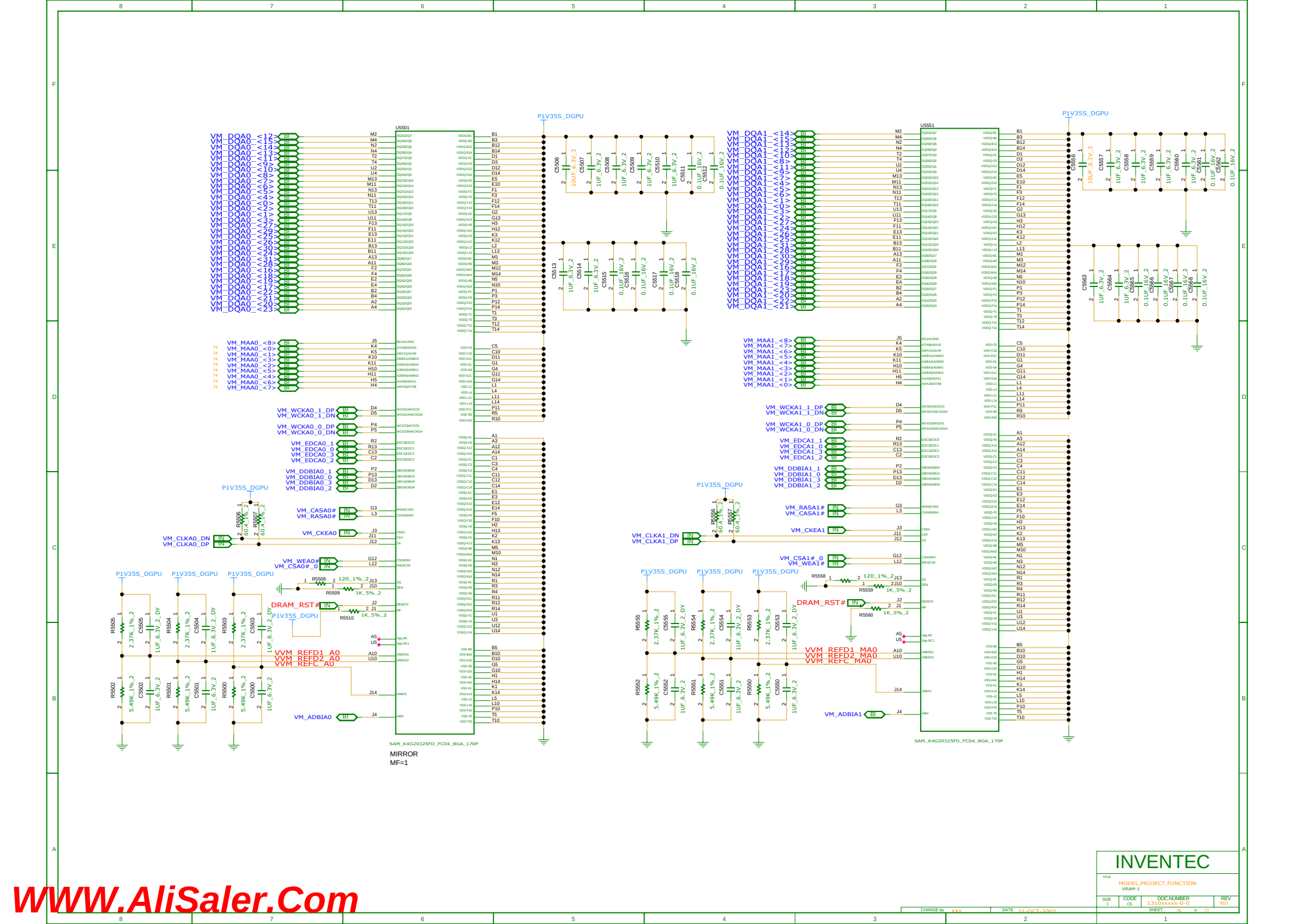

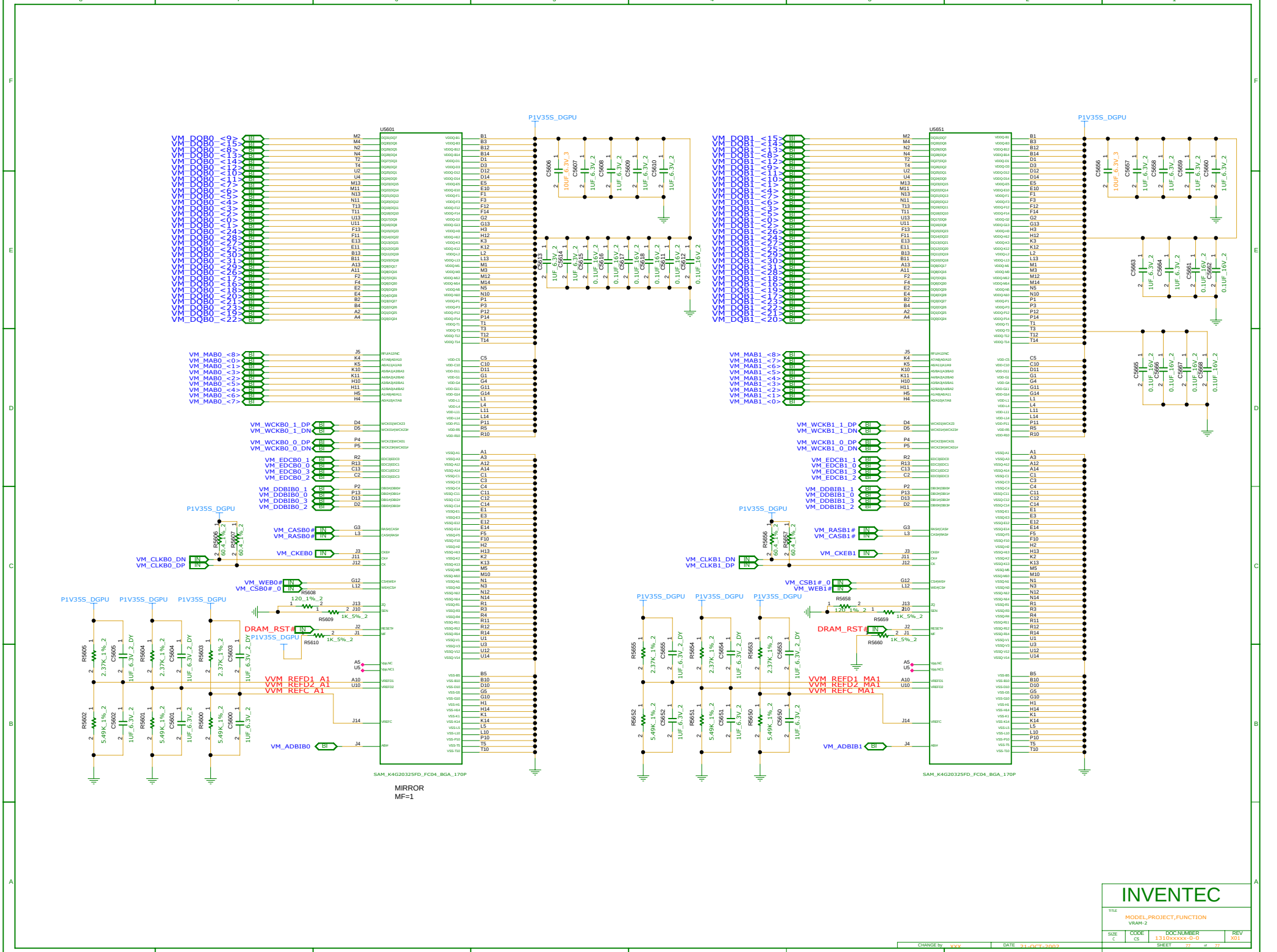
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U5651
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MIRROR
MF=1
INVENTEC
MODEL,PROJECT,FUNCTION
VRAM-2
SIZE C
CODE CS
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REV X01
CHANGE by XXX
DATE 21-OCT-2002
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