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HSF Property: ROHS or Halogen-Free(5L3?)

DB BUILD QUANTITY LIST :

1310A2493104	10 PCS	CR-SG + H-VRAM + GIGA LAN
1310A2493105	72 PCS	CR-SG + S-VRAM + 10/100 LAN
1310A2493106	55 PCS	CR-UMA + GIGA LAN
1310A2493201	137 PCS	POWER /B
1310A2493601	137 PCS	PICK BTN /B
1310A2493701	137 PCS	USB /B

For DB build
SOUTH BRIDGE
HM75 QPEG Q0
BD82PPSM
P/N : 6019B0919101

MOTHER BOARD PCB
P/N : 6050A2493101

POWER BOARD PCB
P/N : 6050A2493201

USB BOARD PCB
P/N : 6050A2493601

TOUCHPAD BOARD PCB
P/N : 6050A2493701

HARVEY 14

CR / HR UMA / DIS

2011.09.27

HARVEY 14 ID LIST
HURON RIVER UMA : 0X1854
HURON RIVER DIS : 0X1855
CHIEF RIVER UMA : 0X1856
CHIEF RIVER DIS : 0X1857

SUB SYSTEM ID :
HP : 0X103C

BASE SCHEMATIC :
CR-SG + SAMSUNG VRAM + 10/100 LAN + 90W ADAPTER + SUPPORT 27MHZ GREEN CLK + USB2.0 CONN

PAD402 不開鋼板 RTC Rest
PAD4500 不開鋼板 SM_Vrer
PAD2 開
PAD4 開
PAD400 開
PAD4700 開
PAD500 開
PAD508 開
PAD6015 開
PAD6100 開
PAD6103 開
PAD6105 開
PAD6110 開
PAD6150 開
PAD6200 開
PAD6210 開
PAD6220 開
PAD6300 開
PAD6301 開
PAD6310 開
PAD6510 開
PAD6500 開
PAD6610 開
PAD6710 開
PAD6750 開
PAD6970 開
PAD9000 開
PAD9001 開
PAD9200 開

GPU VRAM TYPE:

U5 , U6 , U7 , U8

SAMSUNG 1GB C-DIE
PN : 6019B0818601

R2 : NA
R3 : NA
R33 : NA
R61 : NA

HYNIX 1GB D-DIE
PN : 6019B0938301

R2 : MOUNT OR : 60130B0000ZT
R3 : NA
R33 : NA
R61 : NA

SAMSUNG 512KB

R2 : NA
R3 : MOUNT
R33 : NA
R61 : NA

HYNIX 512MB

R2 : MOUNT
R3 : MOUNT
R33 : NA
R61 : NA

DIS GREEN CLK SUPPORT 27MHZ

U9 SLG3NB300V P/N : 6019B0941101
C188 MOUNT 0.1UF : 6010A0036403
R126 MOUNT 10R : 60130B10000X
D4400 NA P/N : 6011A0026803

UMA GREEN CLK

U9 SLG3NB250V 6019B0934701
C188 NA
R126 NA
D4400 NA

DIS ADAPTER 90W

R802 MOUNT 100K : 60130B10402T
R769 NA

UMA ADAPTER 65W

R802 NA
R769 MOUNT 100K : 60130B10402T

USB 3.0 CONN

CN518 6012B0370301
C2405 MOUNT 0.1UF : 6010A0036403
C2406 MOUNT 0.1UF : 6010A0036403
D2400 NA >> ESD
L470 MOUNT P/N : 6014B0177901
L471 MOUNT P/N : 6014B0177901

USB 2.0 CONN

CN518 6012B0370102
C2405 NA
C2406 NA
D2400 NA >> ESD
L470 NA
L471 NA

BOARD ID	CR-UMA HR-UMA INTEL	CR-SG HR-SG SEYMOUR	CR-SG HR-SG THAMES
ID0-HI R960	0	1	0
ID1-HI R905	0	0	1
ID2-HI R902	0	0	0
ID3-HI R967	0	0	0
ID4-HI R899	0	0	0
ID5-HI R914	1	1	1
ID0-LO R961	1	0	1
ID1-LO R903	1	1	0
ID2-LO R904	1	1	1
ID3-LO R968	1	1	1
ID4-LO R900	1	1	1
ID5-LO R920	0	0	0

ID0 = GPIO40 RXXX = 10K : 60130B1030ZT
ID1 = GPIO41 0 : RXXX NA 1 : RXXX MOUNT
ID2 = GPIO42
ID3 = GPIO43
ID4 = GPIO9
ID5 = GPIO10

BOARD_ID5 ONLY FOR WEBCAN USE
FOR HD WEB CAM BOARD_ID5 PULL P3V3A
FOR VGA WEB CAM BOARD_ID5 PULL GND

M/B ID	DB	SI	PV	MV
R844	MOUNT	NA	MOUNT	NA
R824	MOUNT	MOUNT	NA	NA
R845	NA	MOUNT	NA	MOUNT
R828	NA	NA	MOUNT	MOUNT

RXXX = 10K : 60130B1030ZT NOV JAN MAR

RTL8161FH = 6019B0928101 (10/100/1000)
RTL8165EH = 6019B0928301 (10/100)

RTL8165EH(10/100) LDO MODE

R408 : MOUNT ----> CHOOSE LDO MODE OR : 60130B0000ZT
R407 : NA ----> CHOOSE SWITCHING MODE
R413 : NA
C404 : NA
C405 : NA
C406 : NA
C409 : NA
C411 : NA
C415 : NA
C417 : NA
C420 : NA
L400 : NA
U470 : NA

U502 : MOUNT 6016B0008101
U400 : MOUNT 6019B0928301 (10/100 LAN)

RTL8161FH(GIGA-LAN) SWITCHING MODE

R408 : NA ----> CHOOSE LDO MODE
R407 : MOUNT ----> CHOOSE SWITCHING MODE OR : 60130B1030ZT
R413 : MOUNT OR_0603 : 60130B000000Z
C404 : MOUNT 4.7UF : 6010B0009904
C405 : MOUNT 0.1UF : 6010A0036403
C406 : MOUNT 0.1UF : 6010A0036403
C409 : MOUNT 0.1UF : 6010A0036403
C411 : MOUNT 0.1UF : 6010A0036403
C415 : MOUNT 0.1UF : 6010A0036403
C417 : MOUNT 4.7UF : 6010B0009904
C420 : MOUNT 0.1UF : 6010A0036403
L400 : MOUNT P/N : 6014B0200401
U470 : MOUNT 6016B0010401
U502 : NA
U400 : MOUNT 6019B0928101 (GIGALAN)

INVENTEC-2009.2.2010			X01
DATE	CHANGE NO.		REV

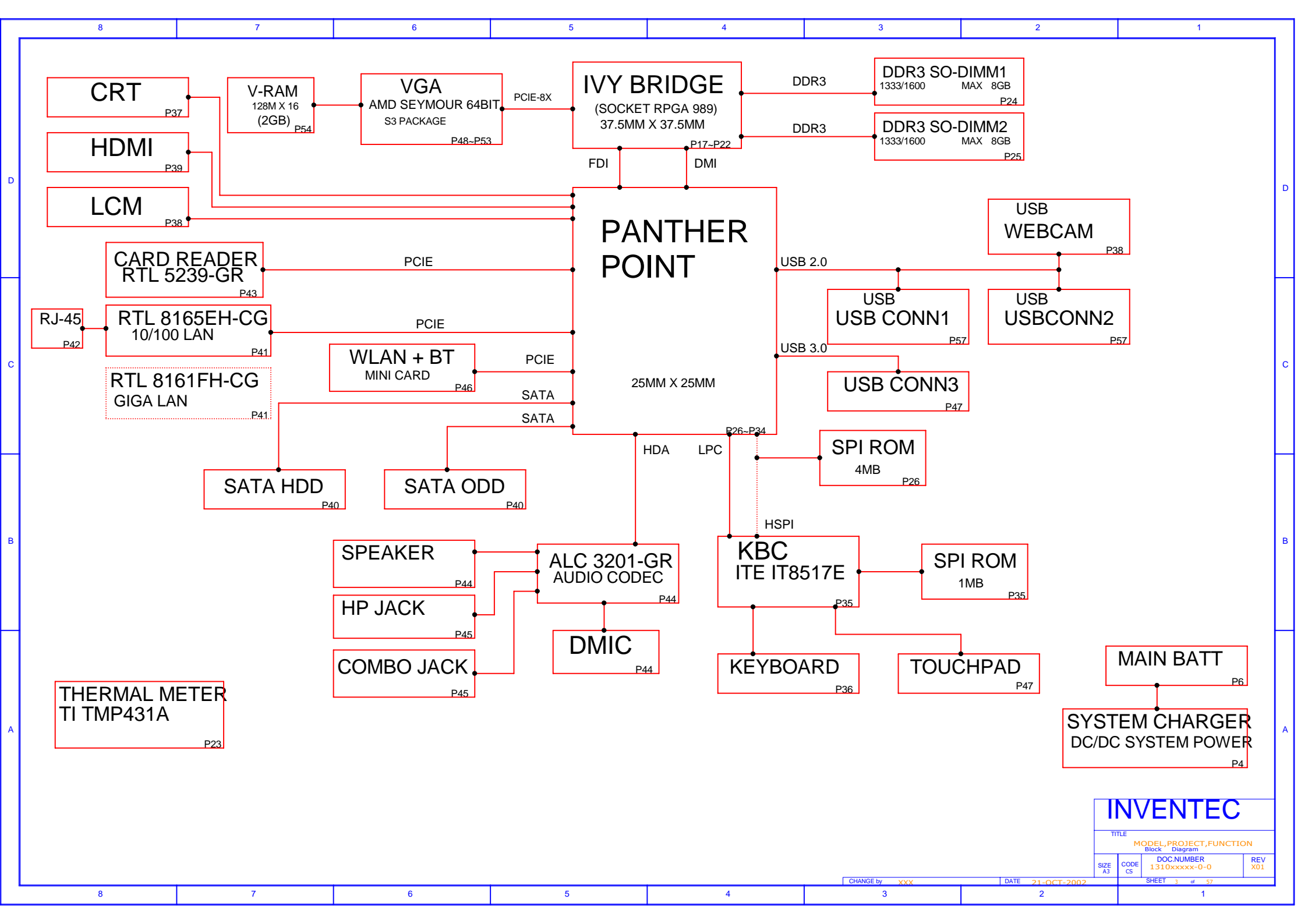
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DESIGN					MODEL,PROJECT,FUNCTION			
CHECK					HARVEY 14			
RESPONSIBLE								
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FILE NAME:					CS	1310xxxx-9-0		X01
PN	6019B0928101				SHEET			57

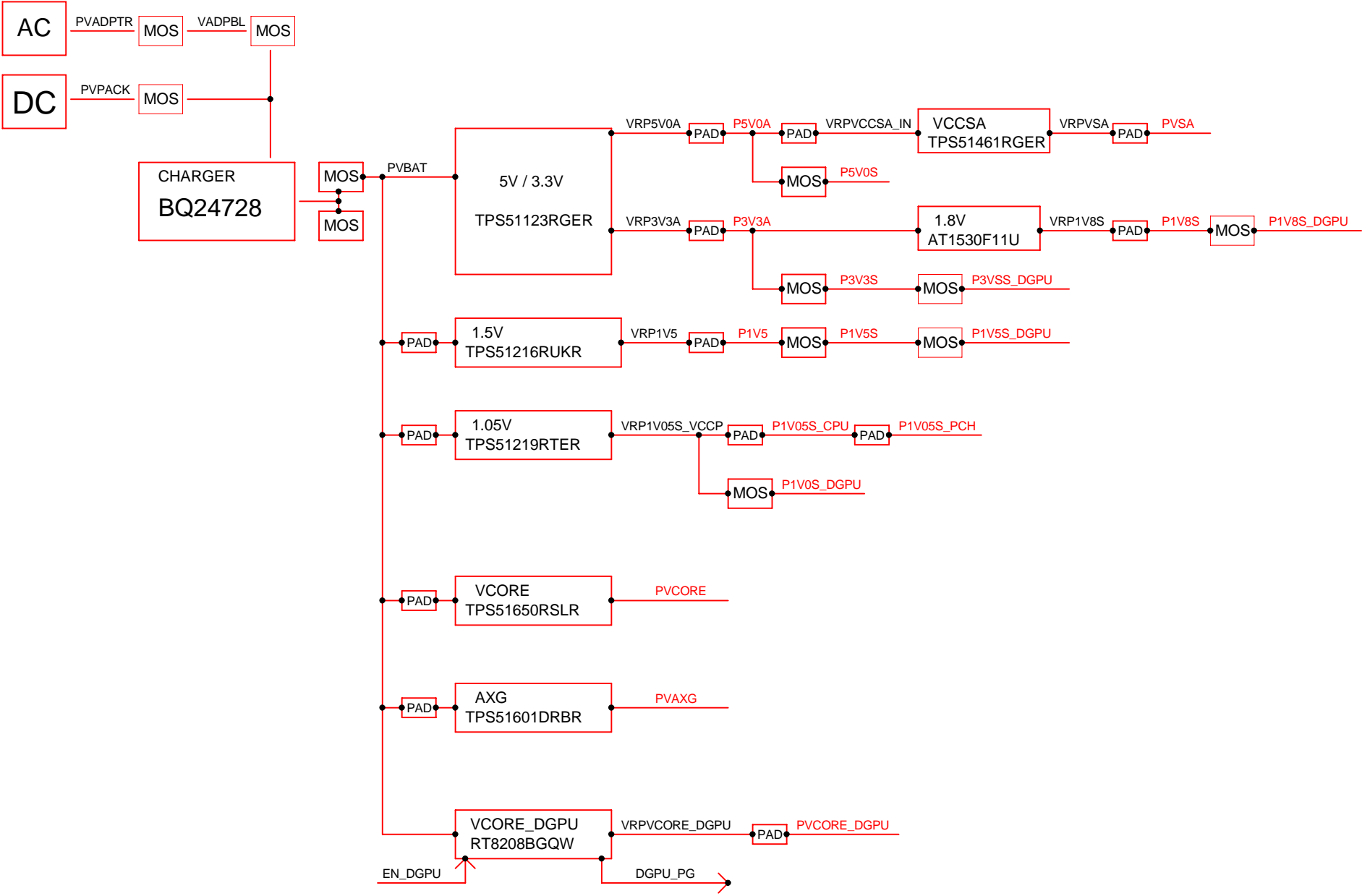
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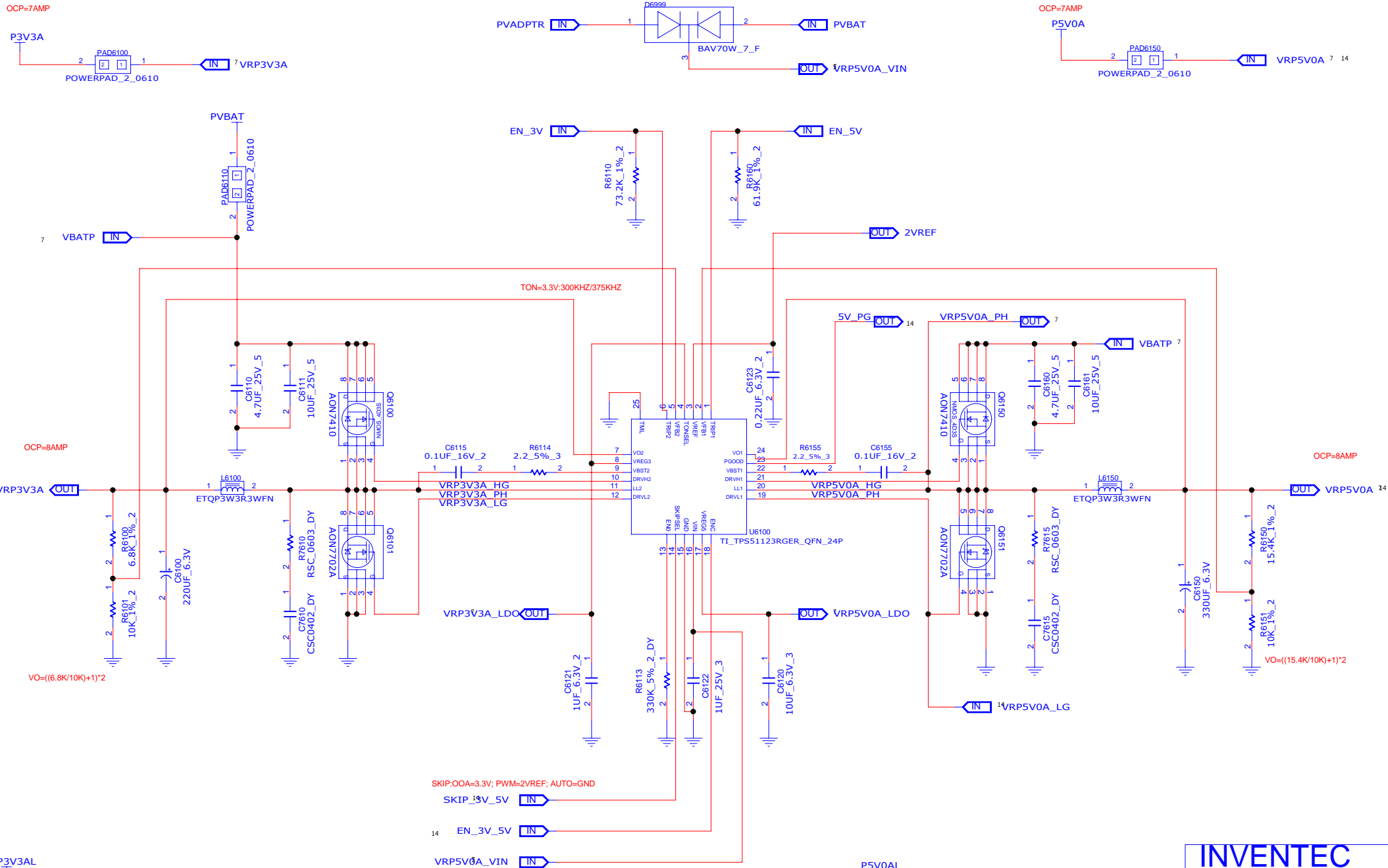
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INDEX			
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A3	CS	1310xxxxx-0-0	X01





INVENTEC

TITLE			
MODEL PROJECT FUNCTION POWER PROCEDURE			
SIZE A3	CODE CS	DOC NUMBER 1310xxxxx-0-0	REV X01



INVENTEC

TITLE

MODEL, PROJECT, FUNCTION

P3V3A & P5V0A

DOC NUMBER

1310xxxxx-0-0

REV

X01

CHANGE by

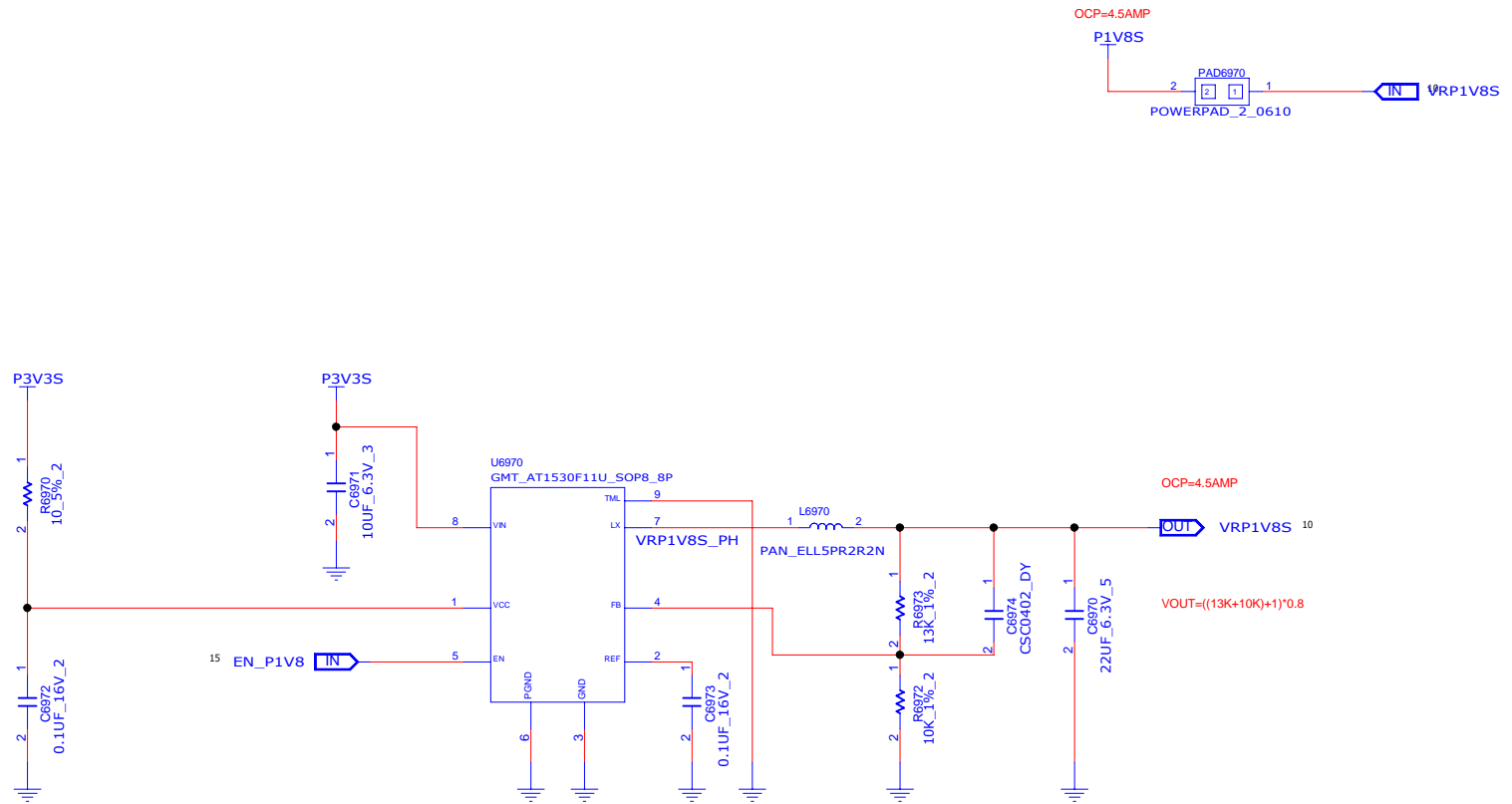
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DATE

21-OCT-2002

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INVENTEC

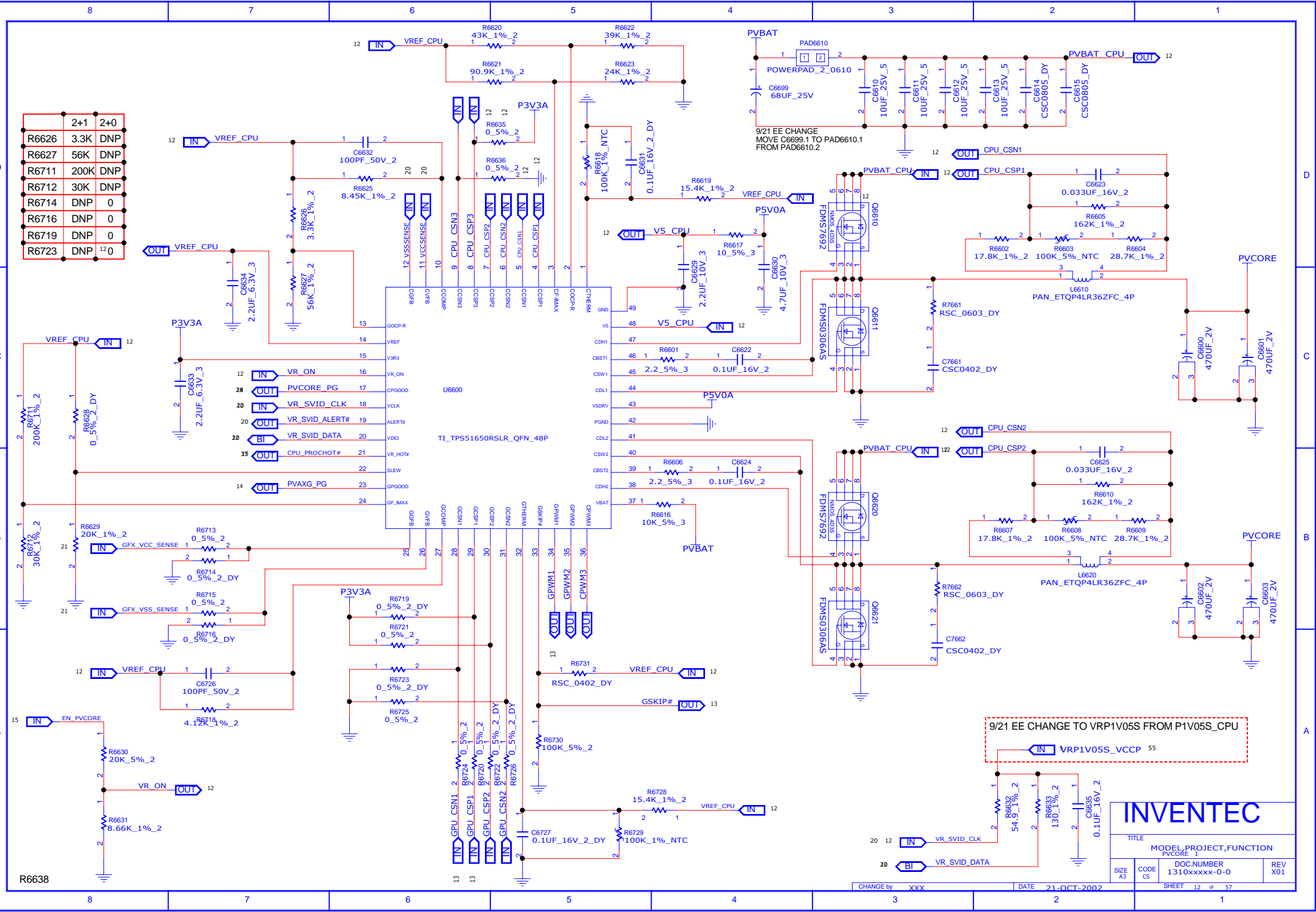
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MODEL PROJECT,FUNCTION
P1V8S

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

CHANGE by XXX DATE 21-OCT-2002

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	2+1	2+0
R6626	3.3K	DNP
R6627	56K	DNP
R6711	200K	DNP
R6712	30K	DNP
R6714	DNP	0
R6716	DNP	0
R6719	DNP	0
R6723	DNP	120

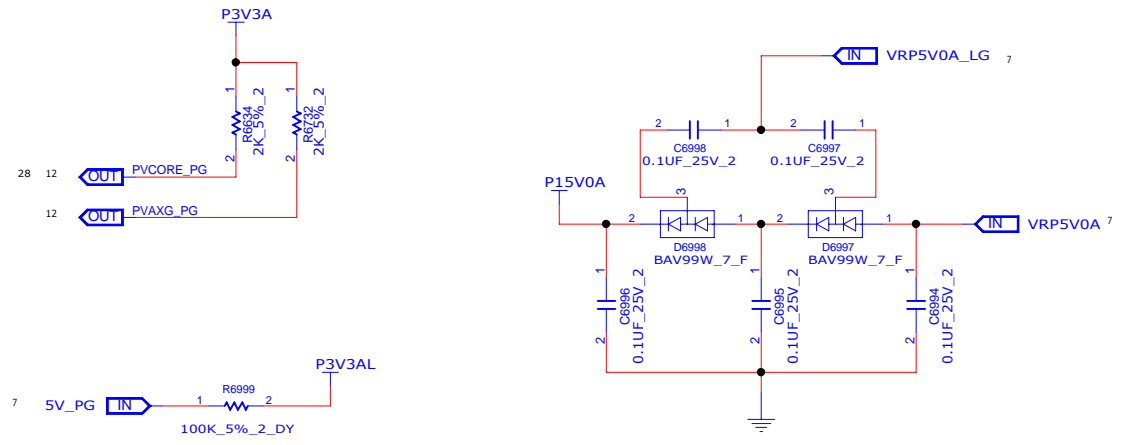
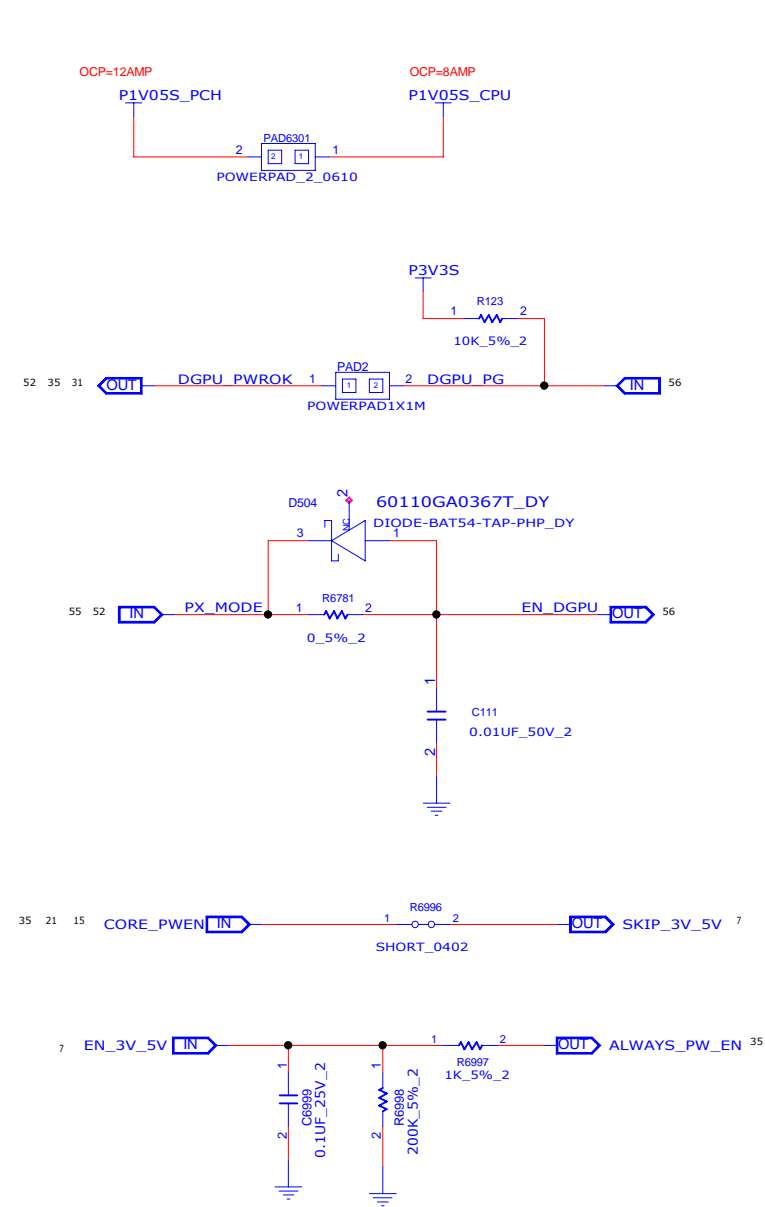


9/21 EE CHANGE TO VRP1V05S FROM P1V05S_CPU

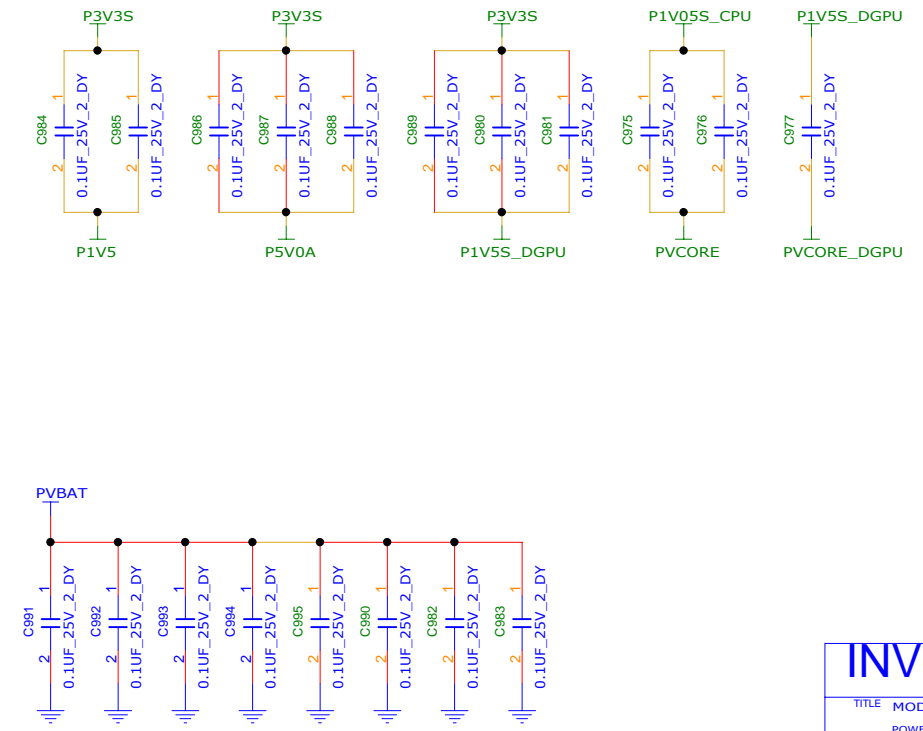
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TITLE
MODEL_PROJECT,FUNCTION
PVCORE_1

SIZE A3 CODE CS DOCNUMBER 1310xxxxx-0-0 REV X01

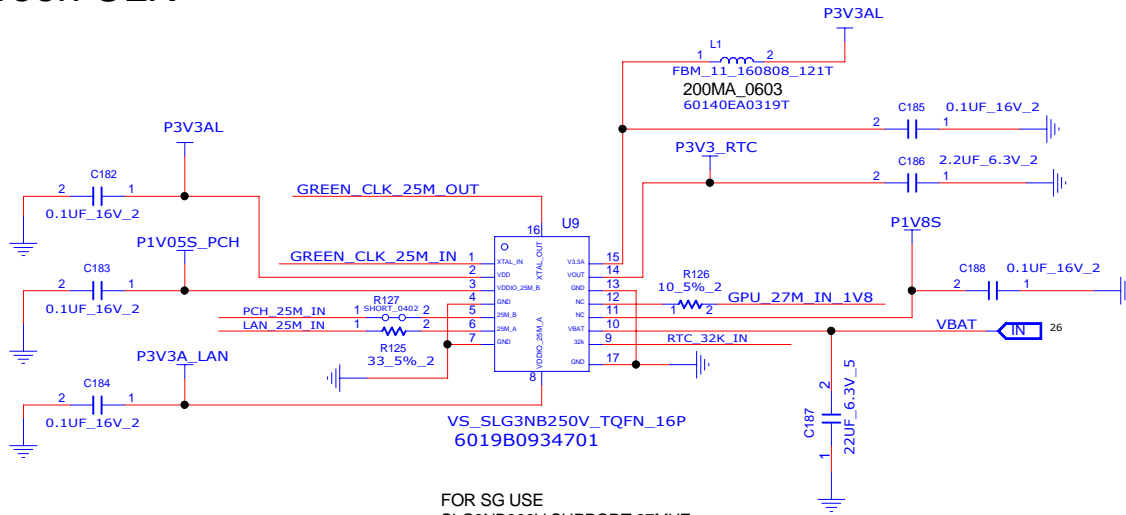


EMI Part



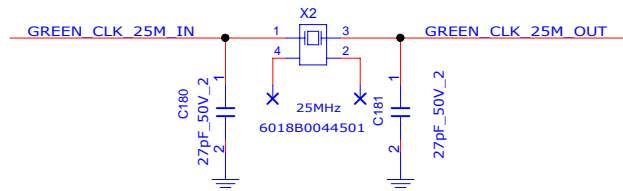
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TITLE MODEL,PROJECT,FUNCTION			
POWER TO EE PORT & EMI PART			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01
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Green CLK



FOR SG USE
SLG3NB300V SUPPORT 27MHZ
P/N : 6019B0941101

FOR UMA USE
SLG3NB250V
P/N : 6019B0934701



FOR UMA
U9 : 6019B0934701
R126 : NA
C188 : NA

FOR SG
U9 : SLG3NB300V P/N APPLY
R126 : MOUNT
C188 : MOUNT

IF USE U9 (SLG3NB250V)

MOUNT	OPEN (PAGE26)	OPEN (PAGE41)
X2	D4400	X400
R1	X501	C402
L1	R958	C403
C180		
C181		
C182		
C183	OPEN (PAGE27)	OPEN (PAGE49)
C184	X503	X1
C185	R1041	R29
C186	C962	C35
C187	C965	C36
R906 (PAGE26)		
R912 (PAGE27)		
R414 (PAGE41)		
R120 (PAGE49)		

RTC_32K_IN OUT 26
GPU_27M_IN_1V8 OUT 49
PCH_25M_IN OUT 27
LAN_25M_IN OUT 41

TYPICAL RTC_32K_IN TRACE <= 6
MAX. LENGTH <= 24

TYPICAL GPU_27M_IN TRACE <= 8
MAX. LENGTH <= 12

TYPICAL LAN_25M_IN TRACE <= 8
MAX. LENGTH <= 12

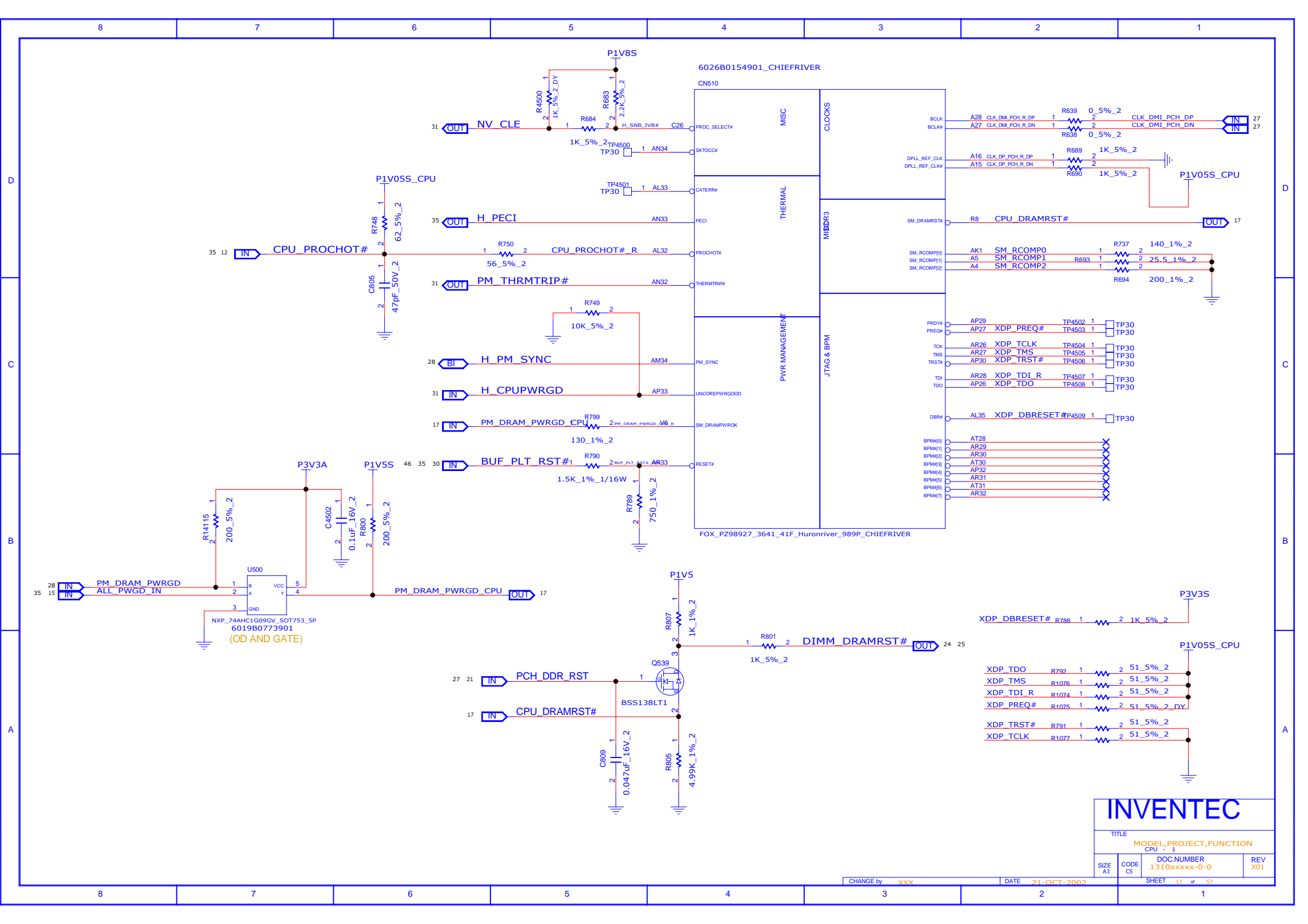
TYPICAL LAN_25M_IN TRACE <= 8
MAX. LENGTH <= 12

INVENTEC

TITLE MODEL, PROJECT, FUNCTION			
GREEN_CLK SLG3NB250			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxx-0-0	X01

CHANGE by XXX DATE 21-OCT-2002

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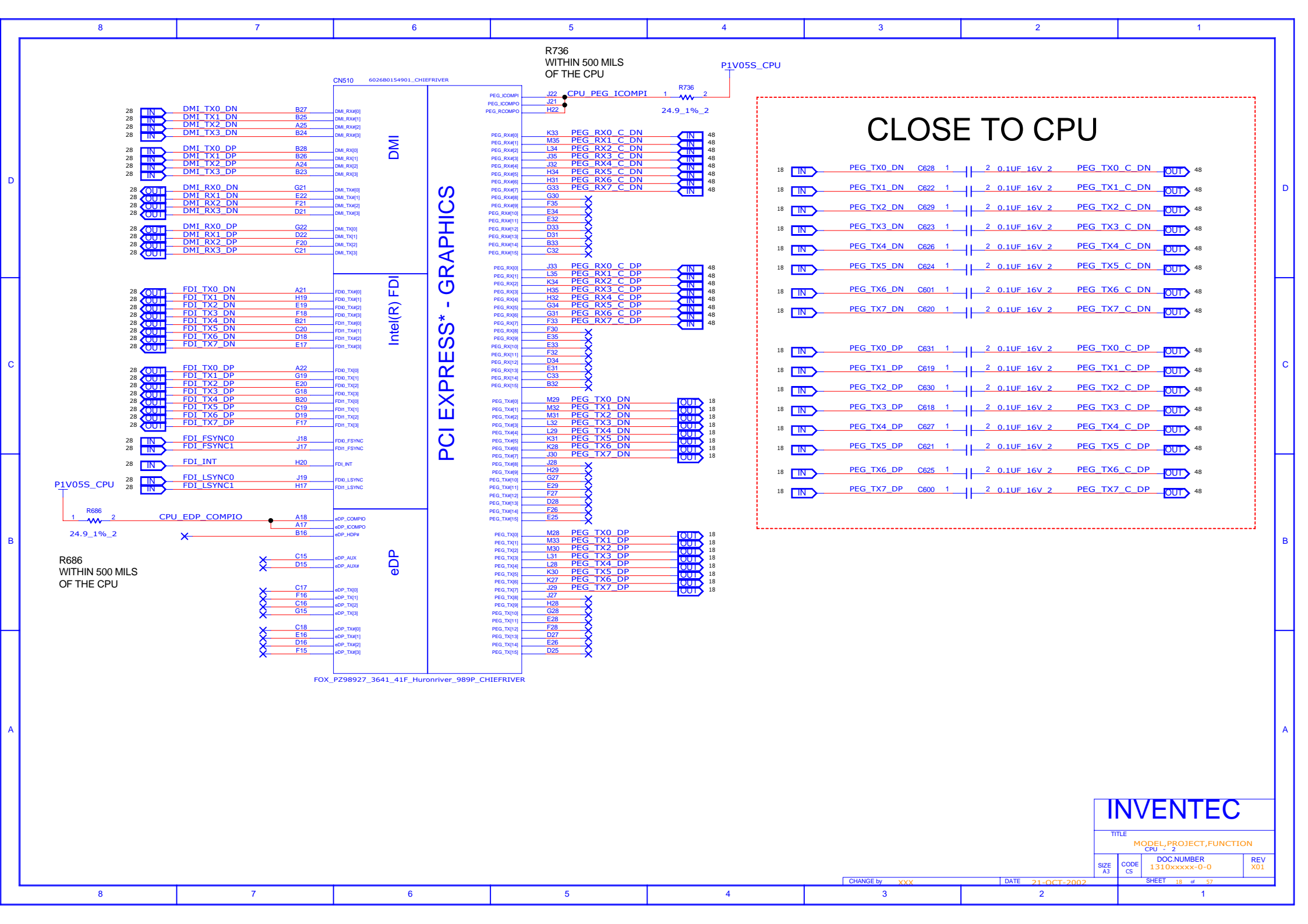


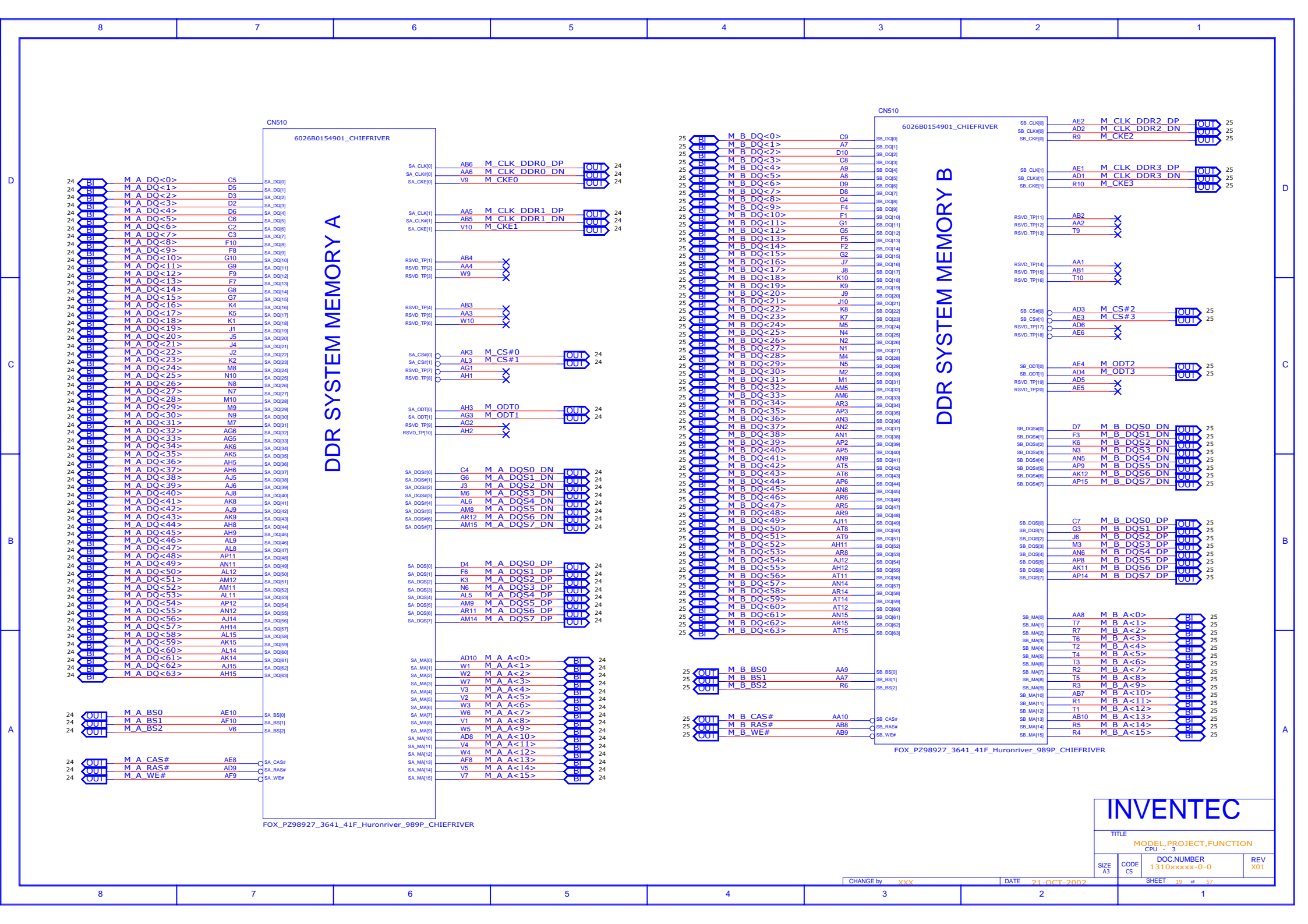
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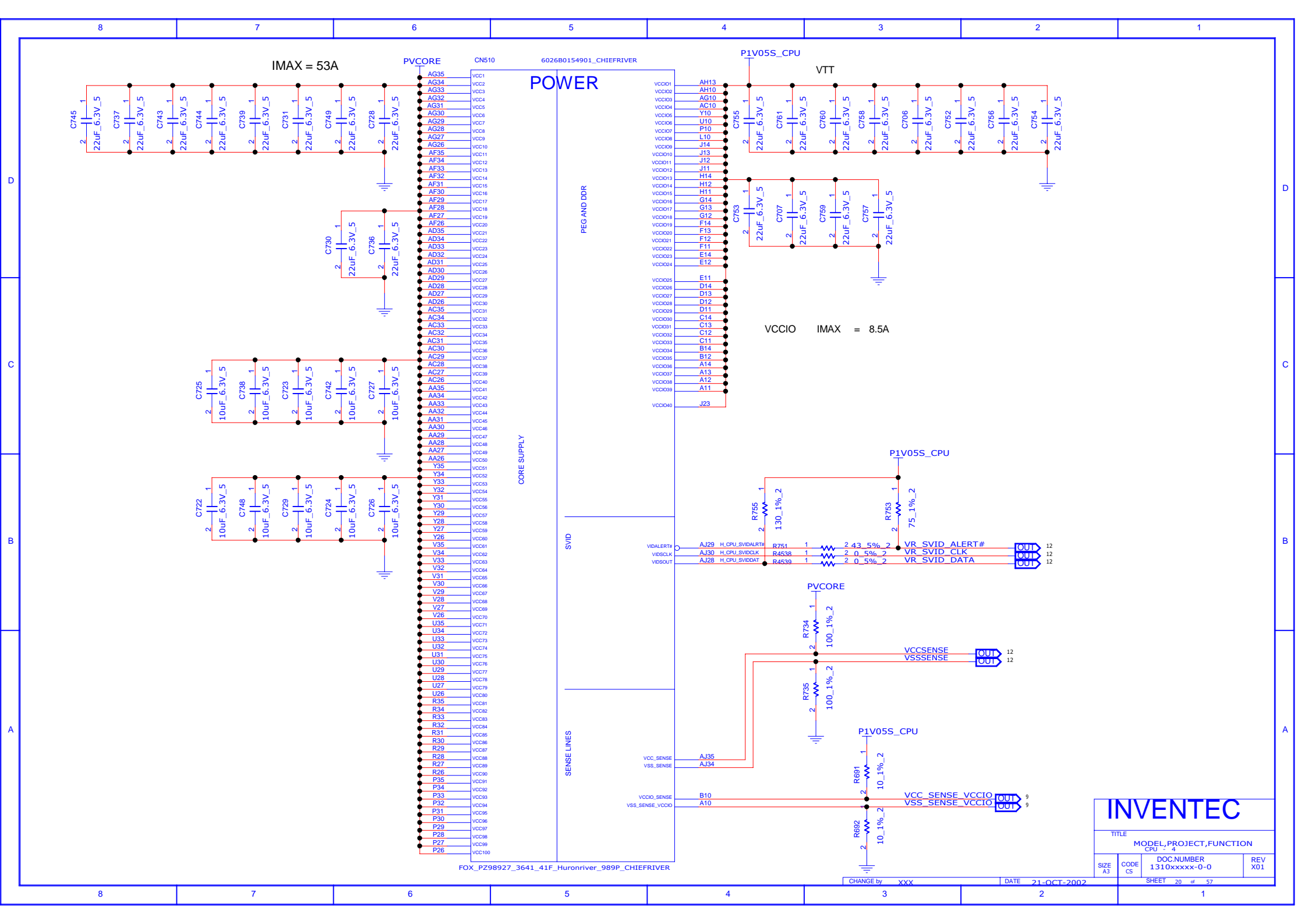
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MODEL,PROJECT,FUNCTION			
SIZE	CODE	DOC NUMBER	REV
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CHANGE by XXX DATE 21-OCT-2002

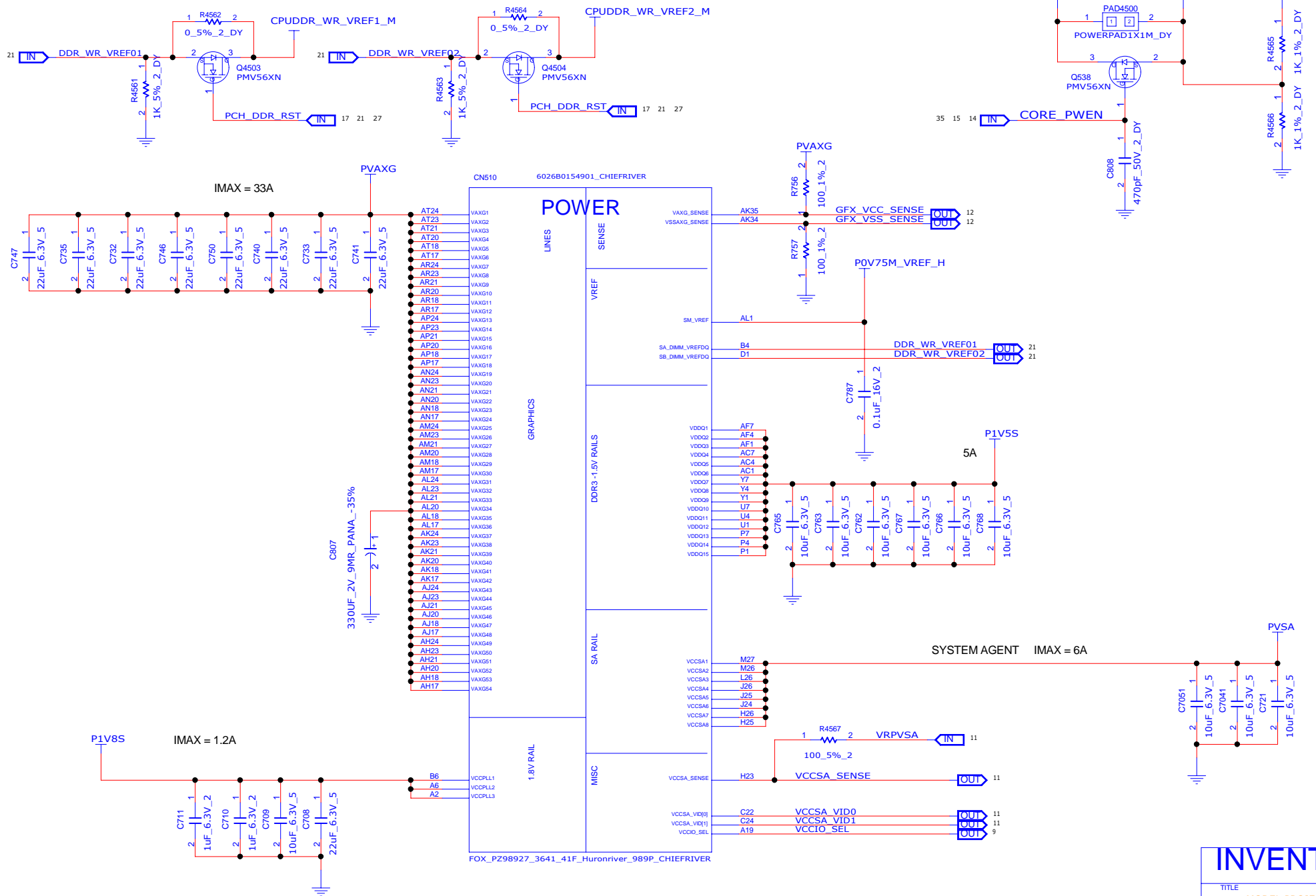
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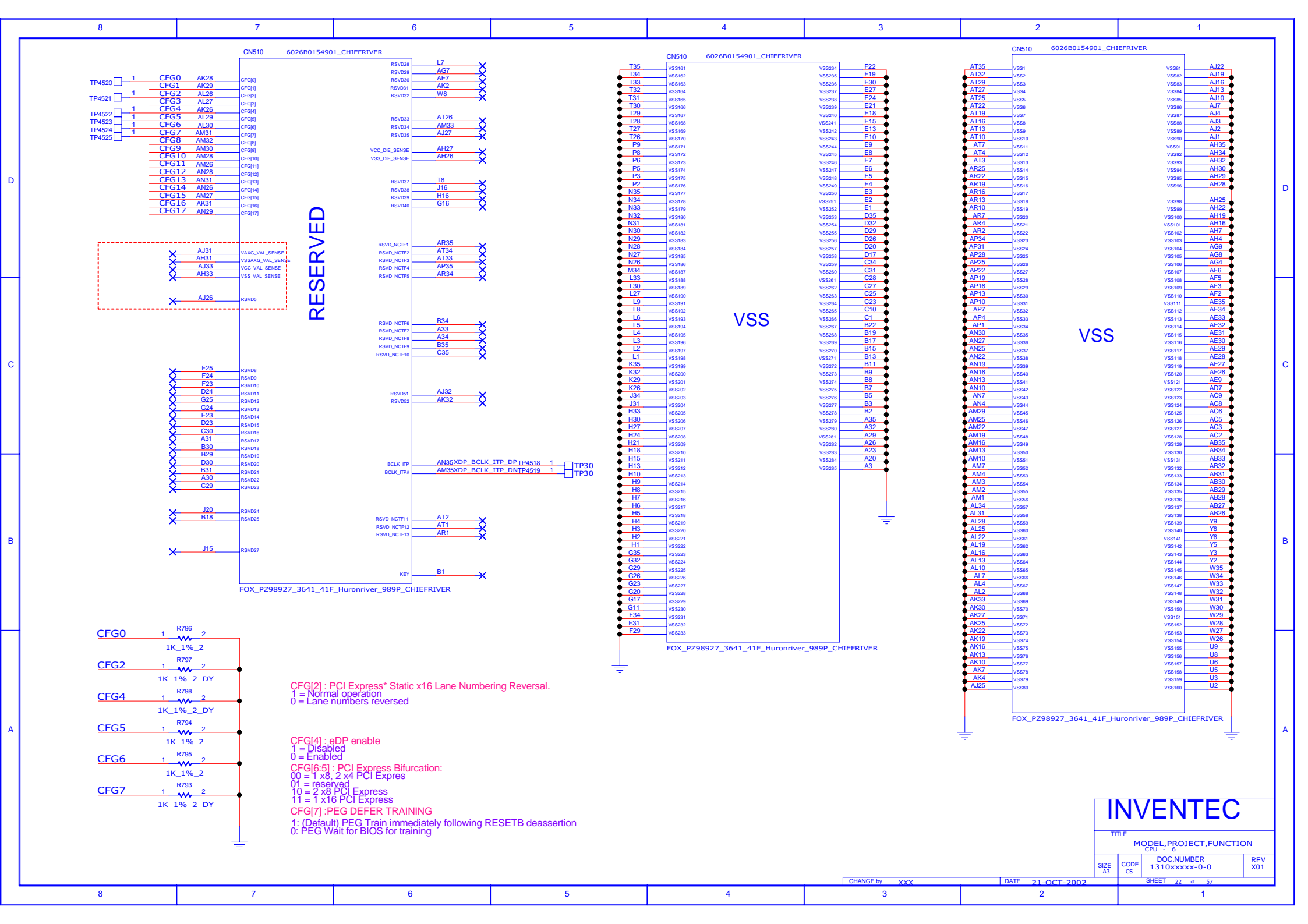


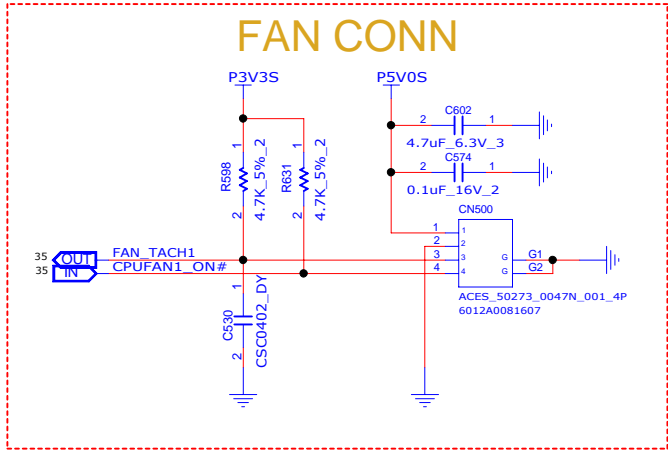
SANDY BRIDGE + IVY BRIDGE COMPTIBILITY DG 2.5.17.1



INVENTEC

TITLE			
MODEL,PROJECT,FUNCTION			
CPU - 5			
SIZE A3	CODE CS	DOC.NUMBER 1310xxxxx-0-0	REV X01





7.2.5 Register : Local Diode Temperature Alert Temperature

Location : Read = Address 05h Write = Address 0Bh

Type : Read/Write

Power on default value : Hardware strapping.

BIT	7	6	5	4	3	2	1	0
NAME	LDT Alert Temperature							
VALUE	SIGN	64	32	16	8	4	2	1
DEFAULT	Hardware strapping							

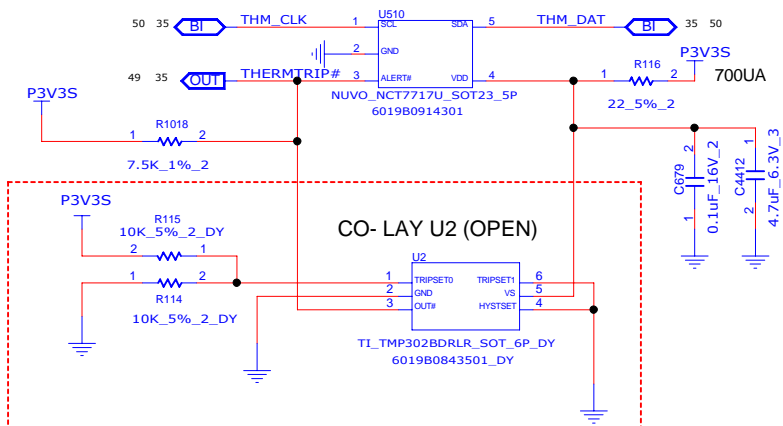
6.6 ALERT# point hardware power-on setting

The default value could be set after power up 100ms by different pull-up resistor of ALERT# pin:

PULL-UP RESISTOR	TEMPERATURE (°C)
2KΩ	75
7.5KΩ	90
10.5KΩ	100
14KΩ	105
18.7KΩ	110

THERMAL SENSOR(LOCAL)

NCT7717U I2C / SMBus address is 1001000xb (x is R/W bit).



TMP302 Available Versions⁽¹⁾

DEVICE	SELECTABLE TRIP POINTS (°C)
TMP302A	50, 55, 60, 65
TMP302B	70, 75, 80, 85
TMP302C	90, 95, 100, 105
TMP302D	110, 115, 120, 125

(1) For other available trip points, please contact a TI representative.

Table 1. Trip Point vs TRIP_{SET1} and TRIP_{SET0}

TRIP _{SET1}	TRIP _{SET0}	TMP302A	TMP302B	TMP302C	TMP302D
GND	GND	+50°C	+70°C	+90°C	+110°C
GND	V _S	+55°C	+75°C	+95°C	+115°C
V _S	GND	+60°C	+80°C	+100°C	+120°C
V _S	V _S	+65°C	+85°C	+105°C	+125°C

Table 2. HYST_{SET} Window

HYST _{SET}	THRESHOLD HYSTERESIS
GND	+5°C
V _S	+10°C

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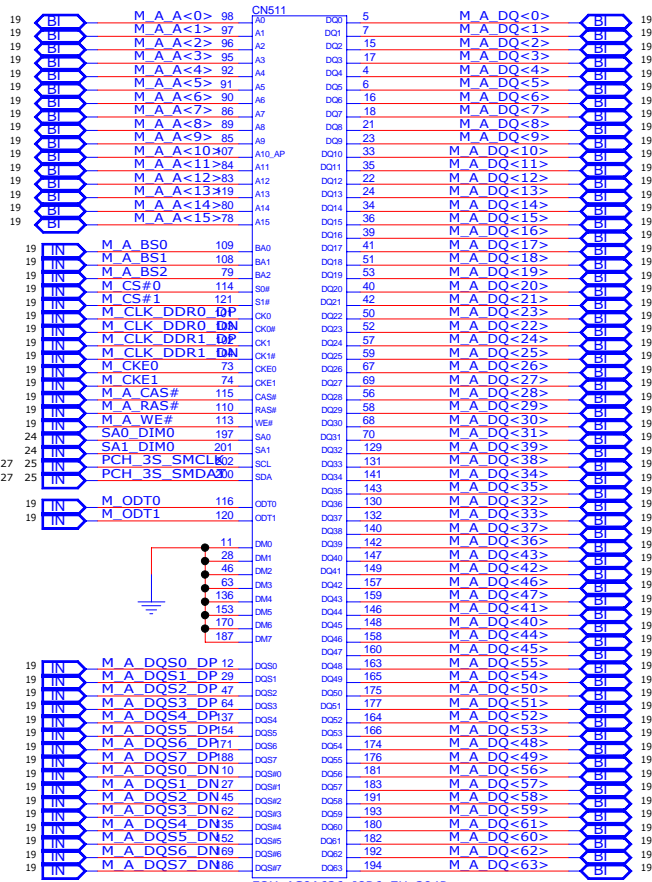
TITLE
MODEL PROJECT,FUNCTION
THERMAL & FAN

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

CHANGE by XXX DATE 21-OCT-2002

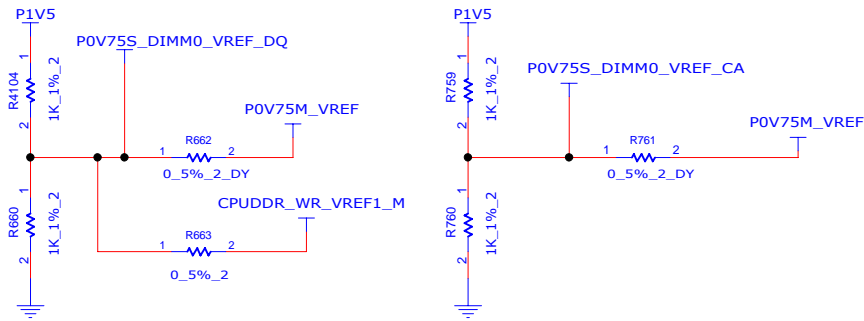
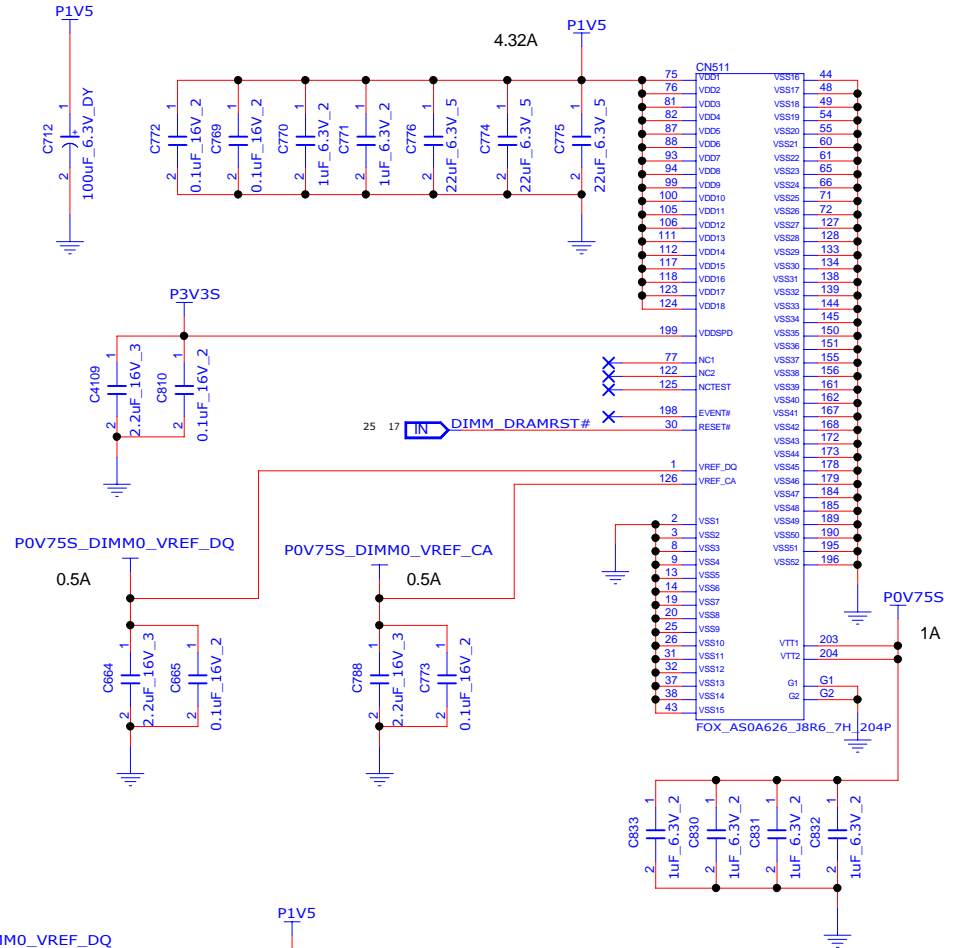
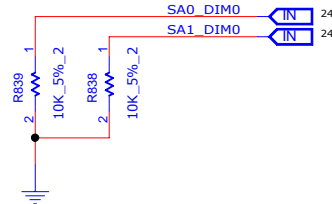
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DDR3 (8mm) P/N : 6026B0221101



FOX_AS0A626_J8R6_7H_204P

Note :
SO-DIMMA SPD Address is 0xA0
SO-DIMMA TS Address is 0x30

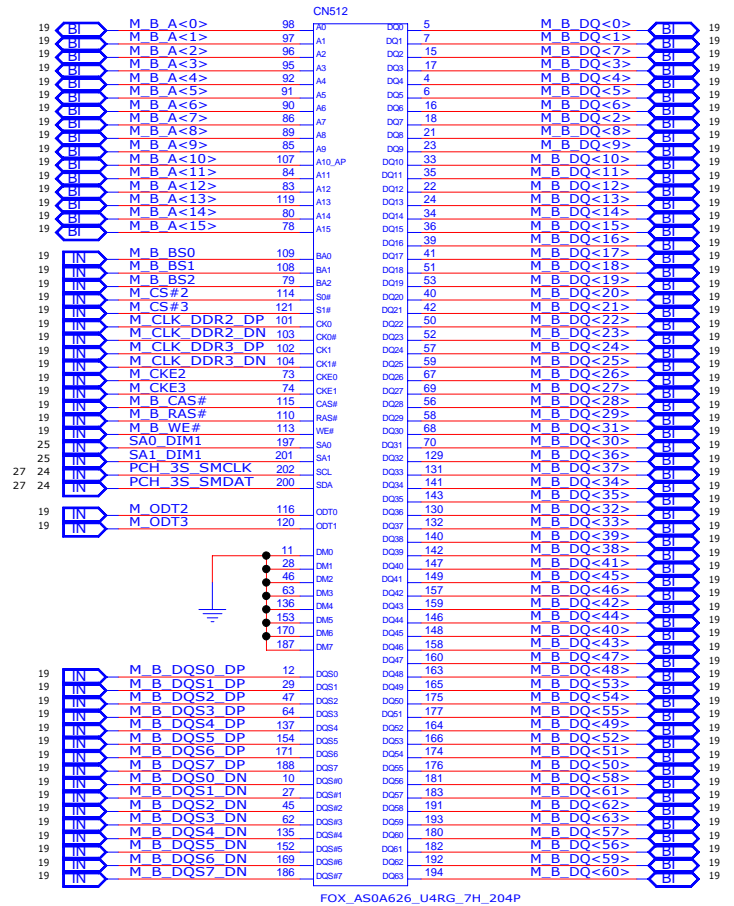


SANDY BRIDGE + IVY BRIDGE DG4.14

INVENTEC

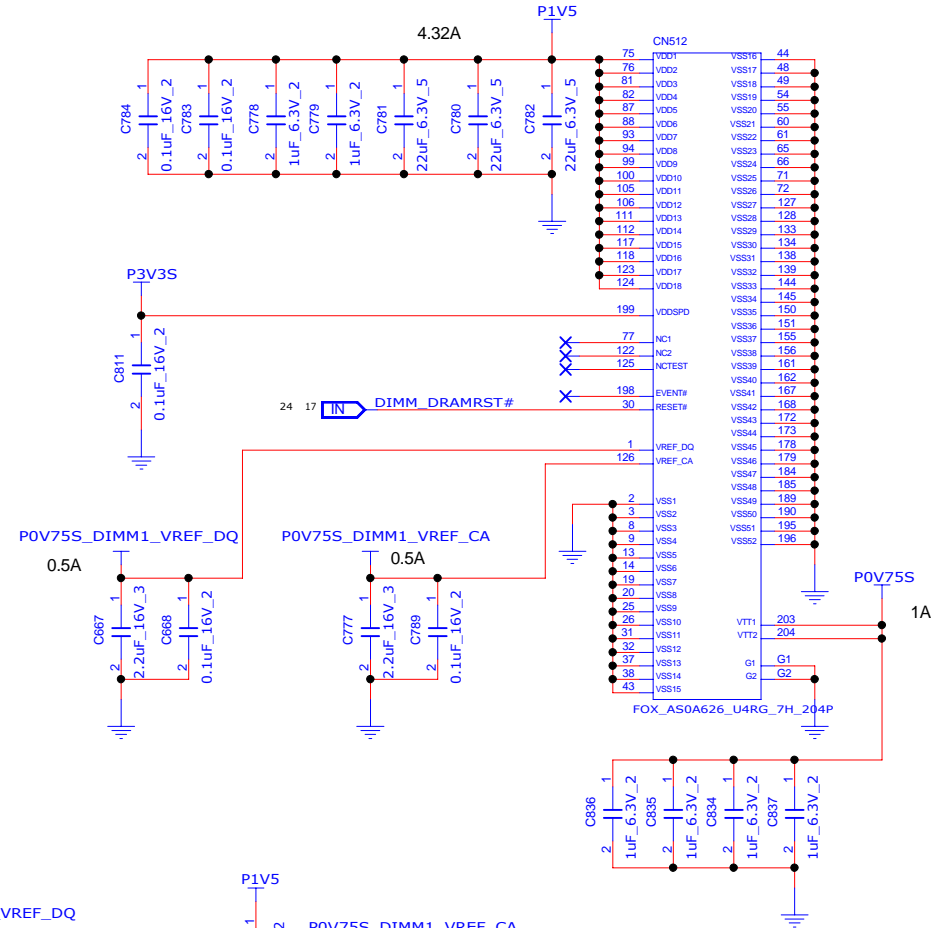
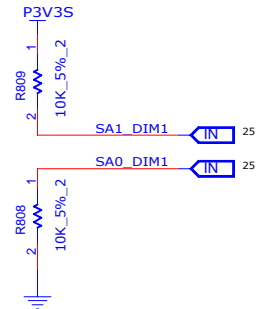
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MODEL,PROJECT,FUNCTION			
DDR3			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01

DDR3 (4mm) P/N : 6026B0221601



FOX_AS0A626_U4RG_7H_204P

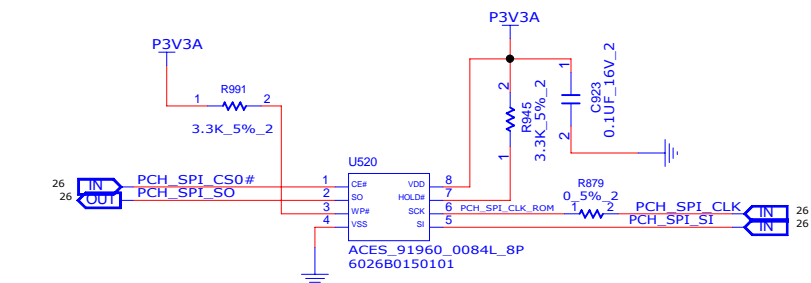
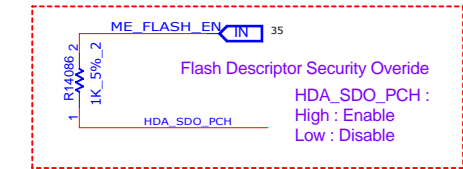
Note :
SO-DIMMA SPD Address is 0xA4
SO-DIMMA TS Address is 0x34



SANDY BRIDGE + IVY BRIDGE DG4.14

INVENTEC

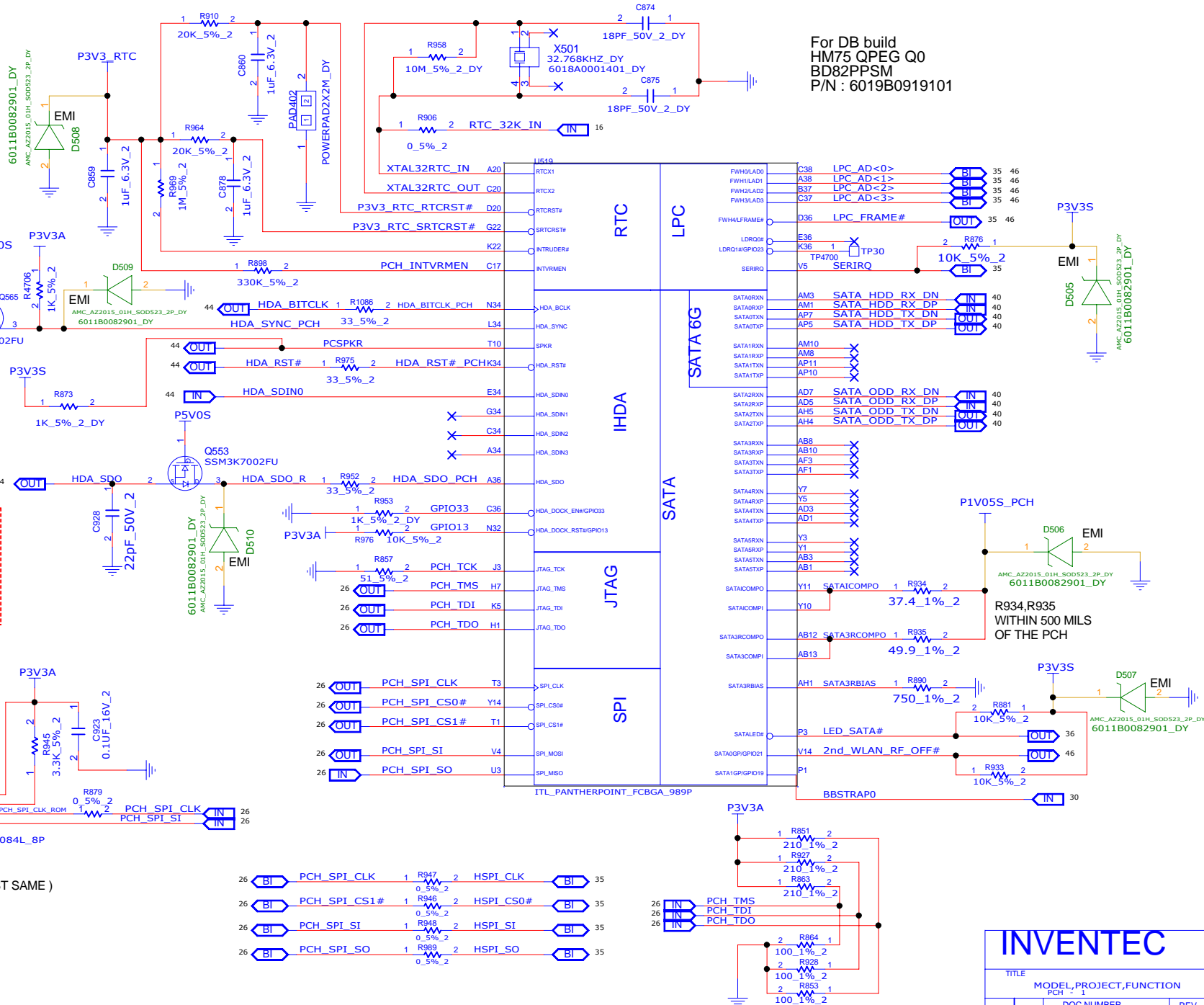
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MODEL, PROJECT, FUNCTION			
DDR3			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01



BIOS ROM 4MB (BIOS & EC ROM VENDOR MUST SAME)

MXIC_MX25L3206EM2I-12G P/N : 6019B0794701

WINBOND_W25Q32BVSSIG P/N : 6019B0704901

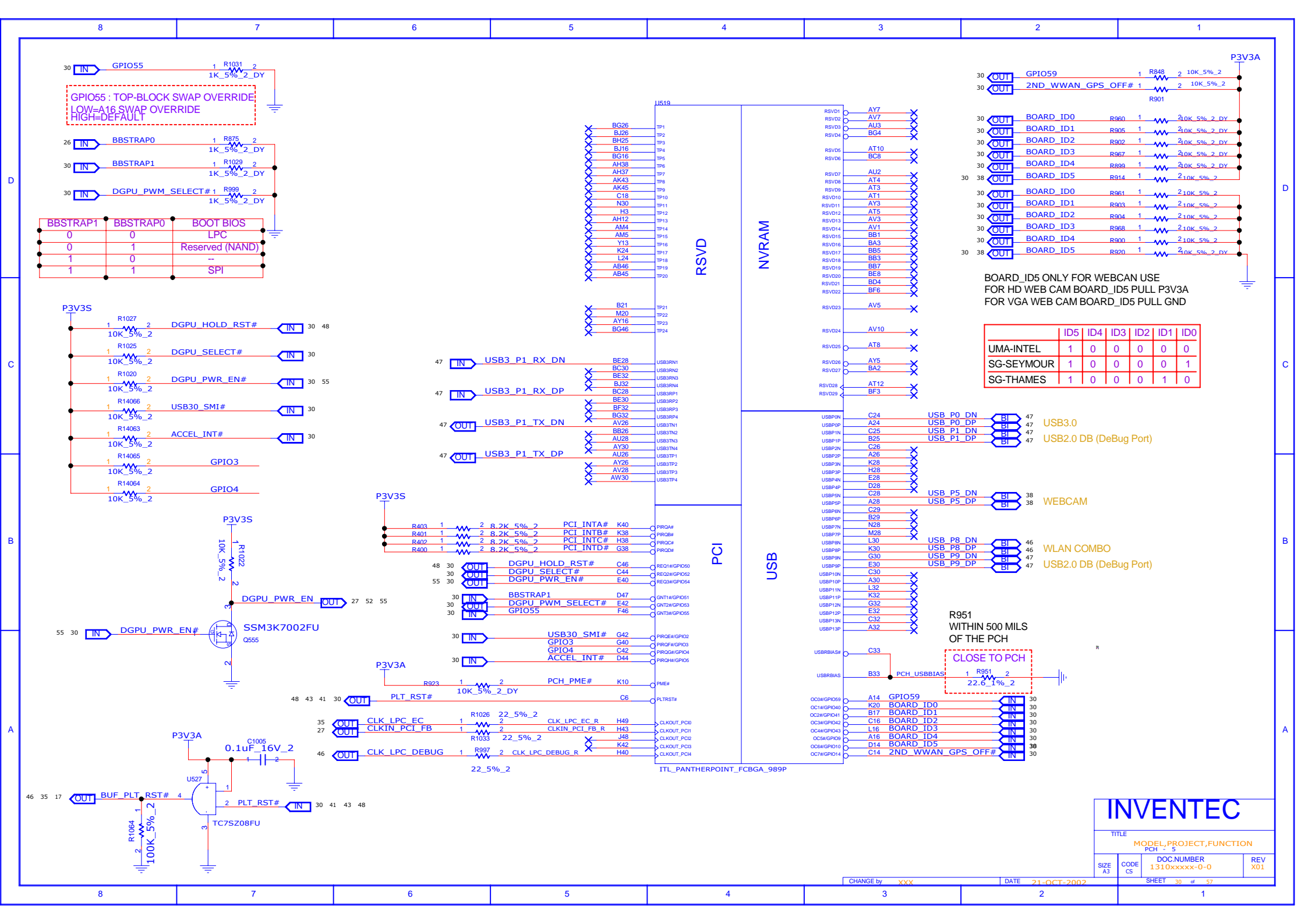


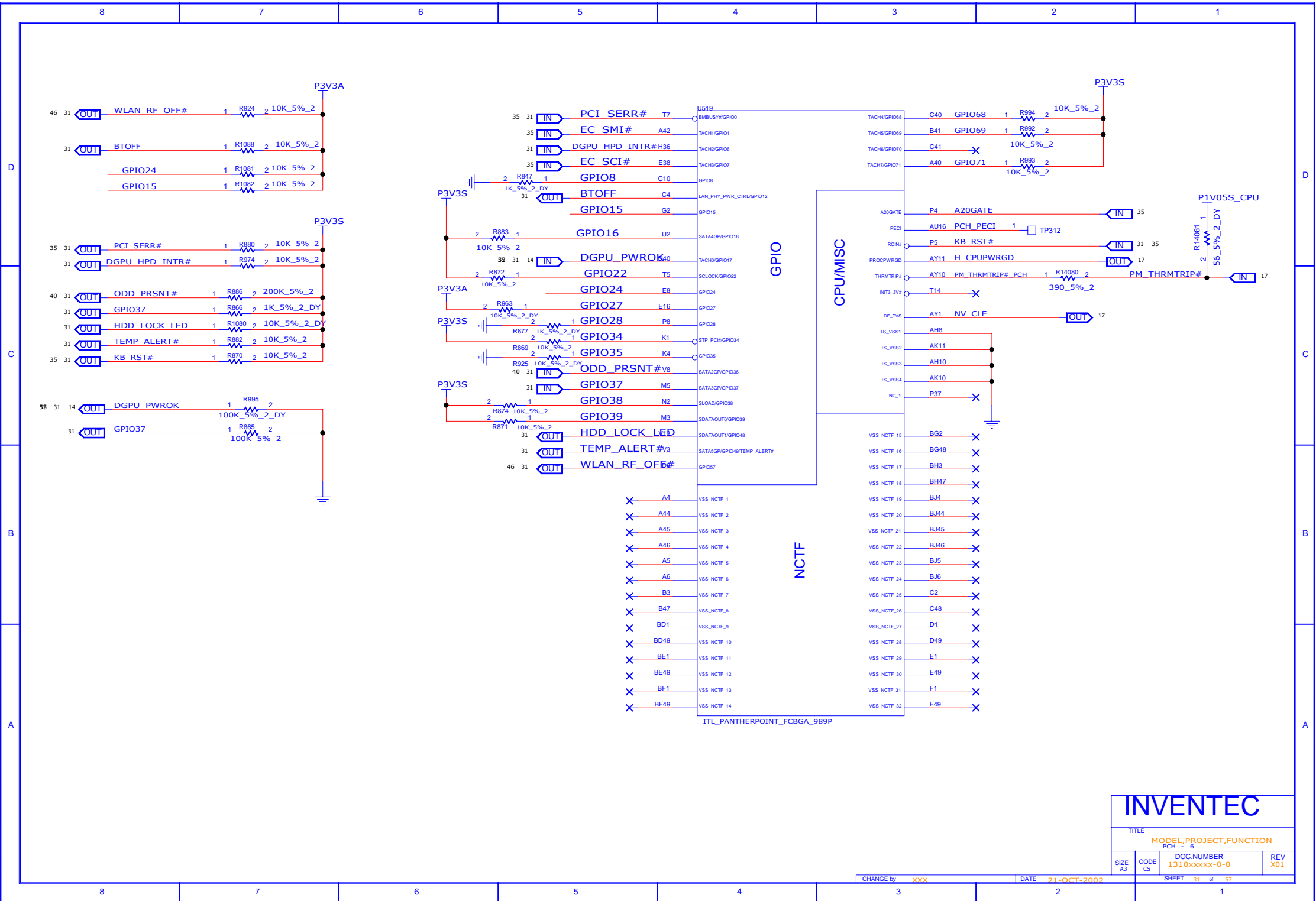
For DB build
HM75 QPEG Q0
BD82PPSM
P/N : 6019B0919101

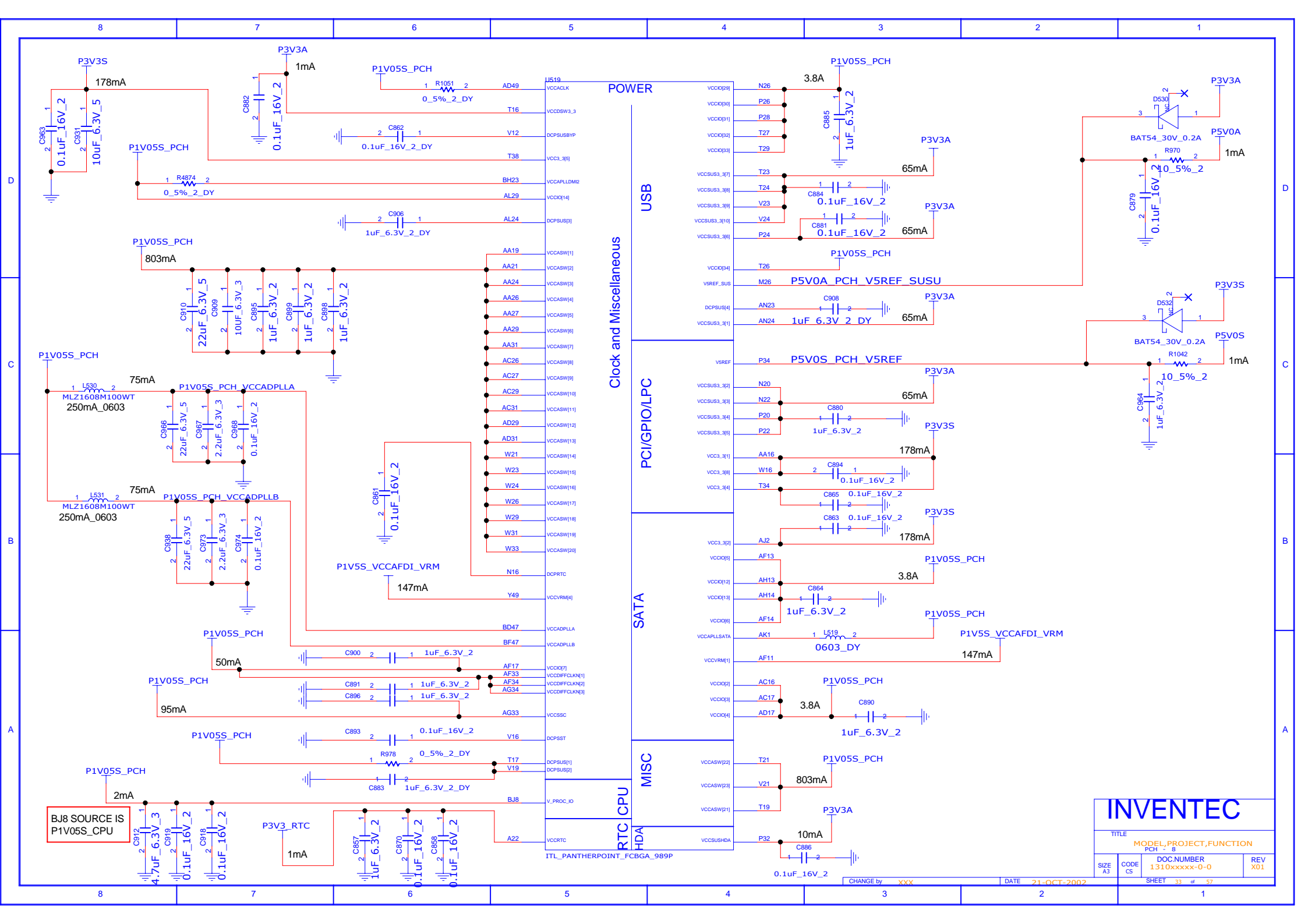
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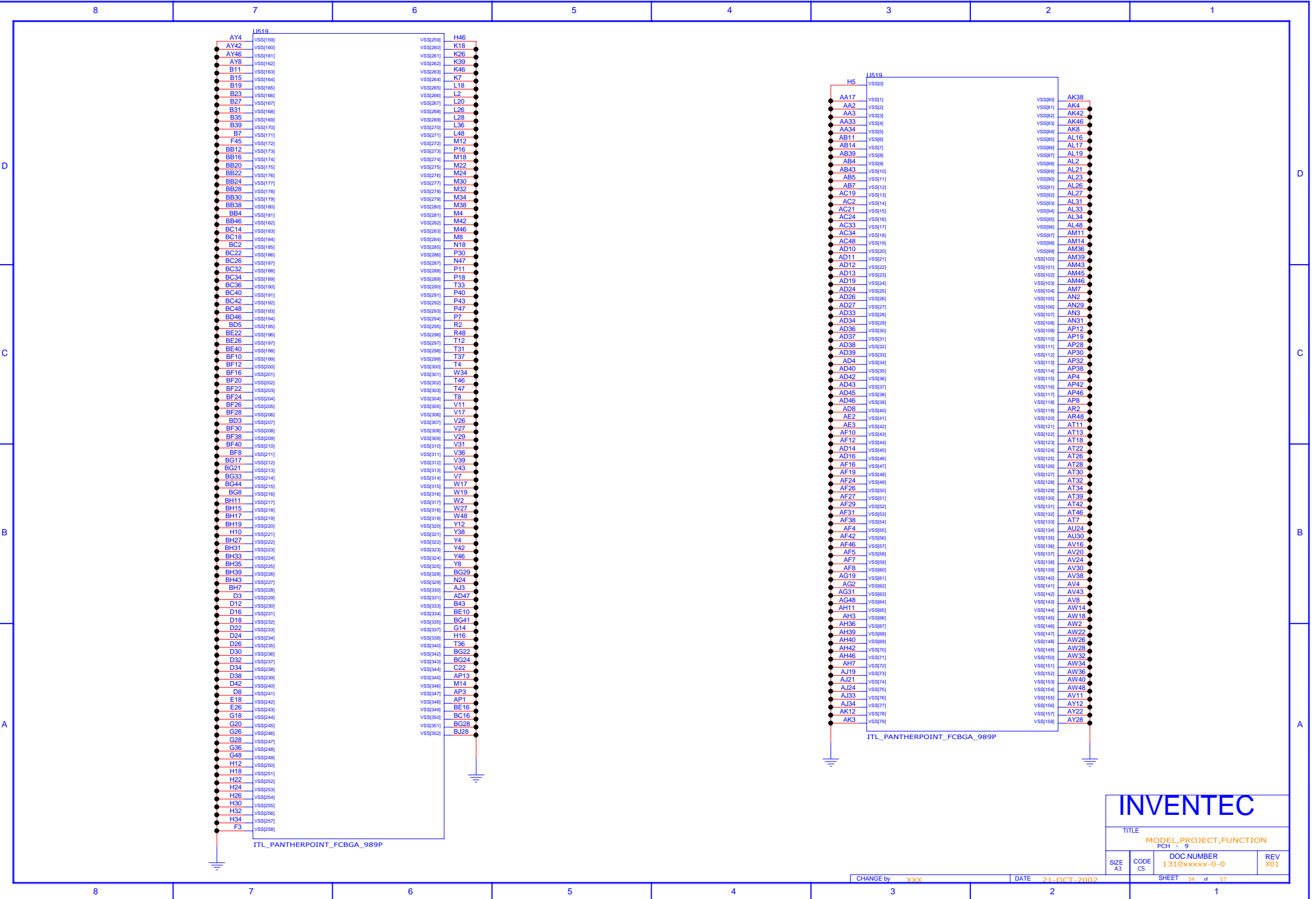
TITLE			
MODEL,PROJECT,FUNCTION			
PCH = 1			
SIZE A3	CODE CS	DOC.NUMBER 1310xxxxx-0-0	











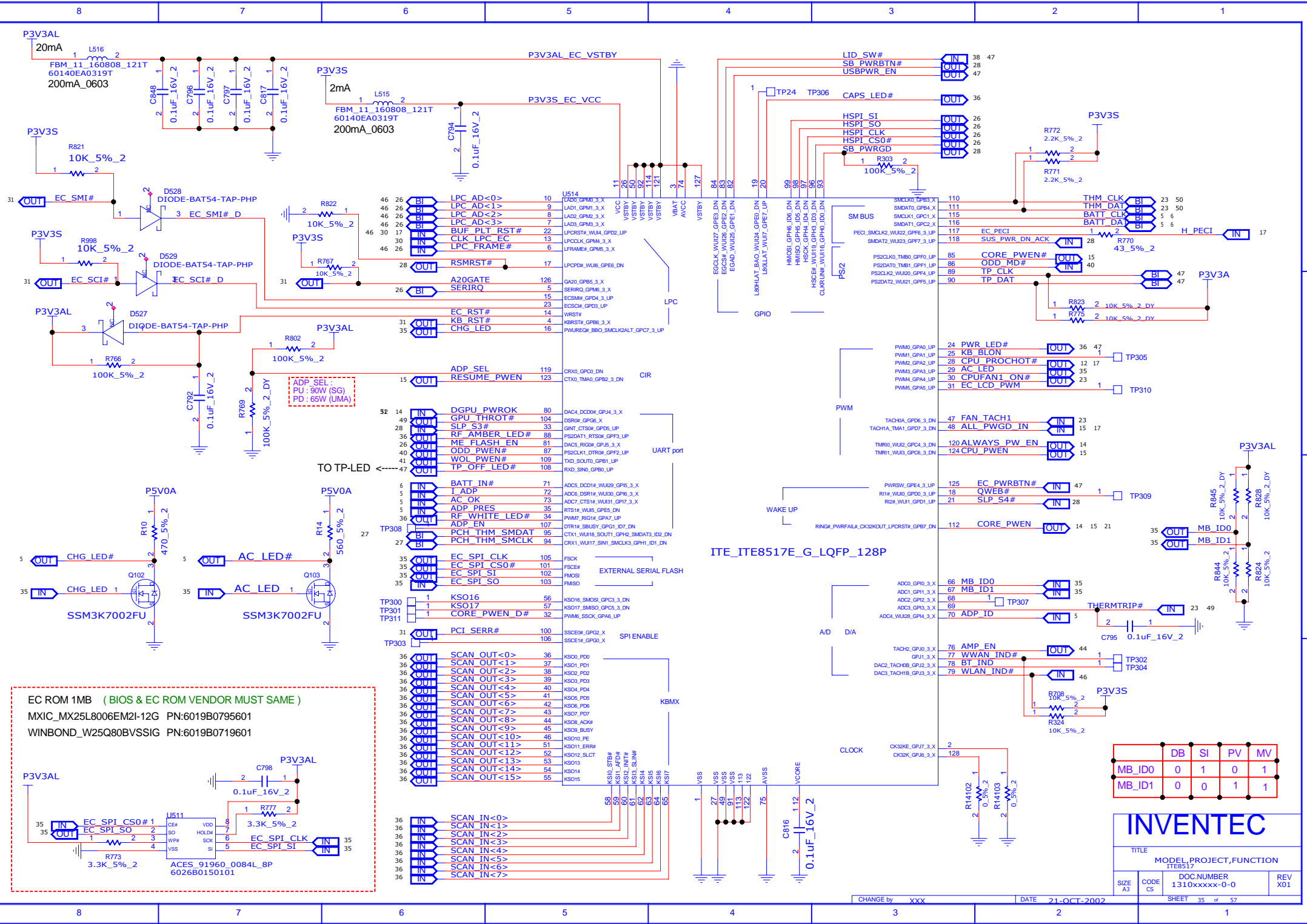
INVENTEC

TITLE
MODEL,PROJECT,FUNCTION
PCH

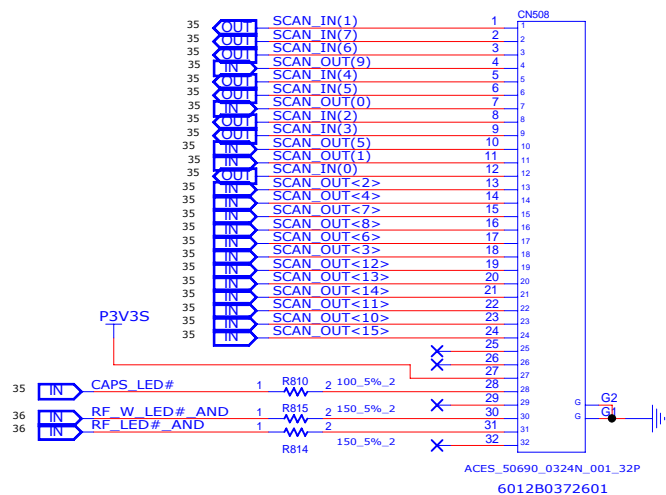
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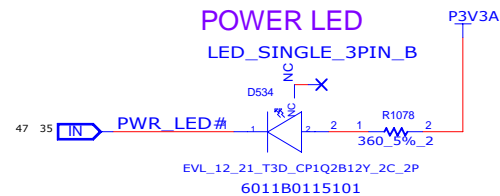


KeyBoard CONN(30 pin)

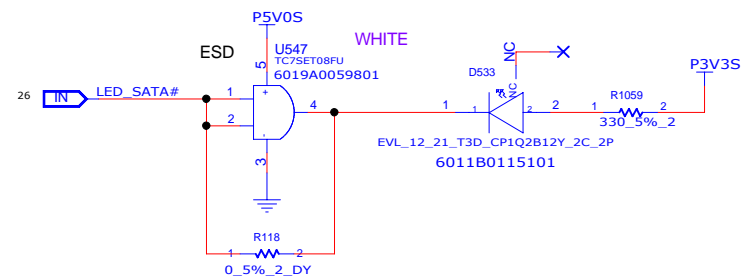


POWER LED

LED_SINGLE_3PIN_B



SATA LED & HDD HALTED LED



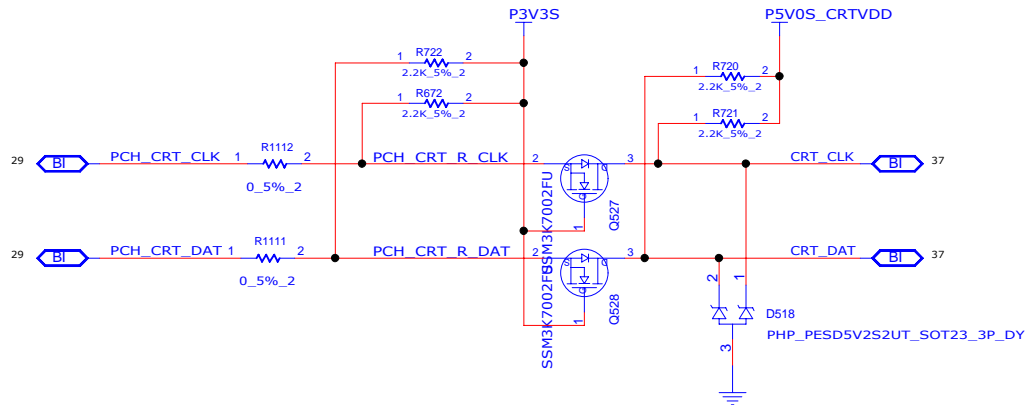
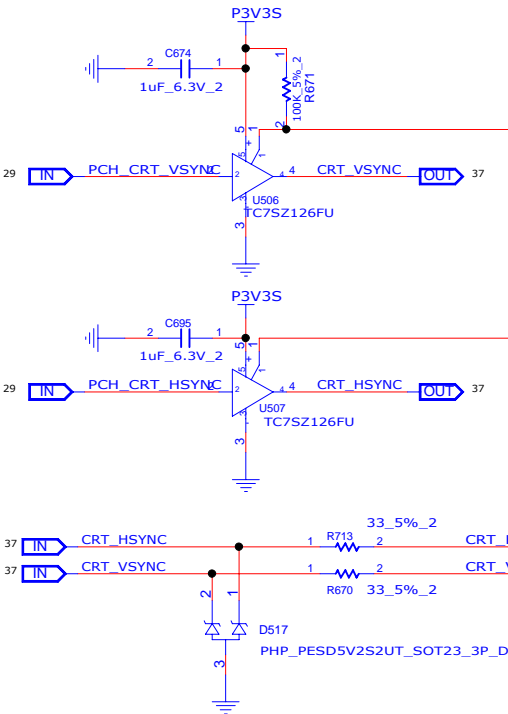
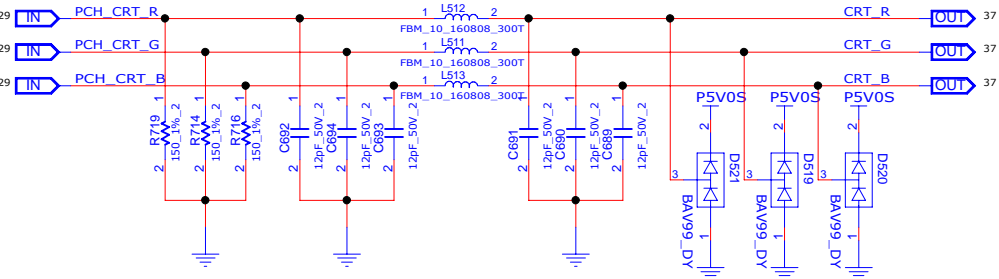
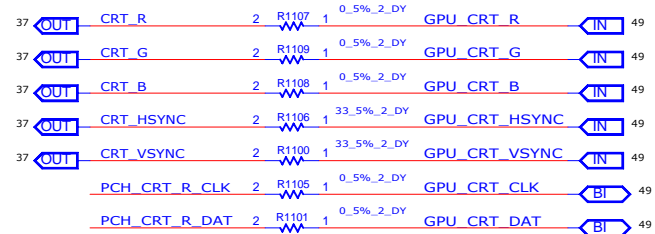
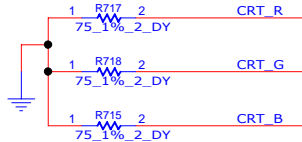
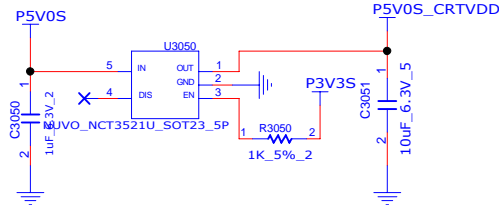
INVENTEC

TITLE MODEL PROJECT,FUNCTION
KB CONN & LED

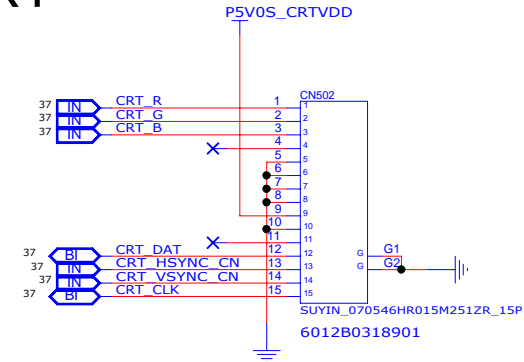
SIZE A3 CODE CS DOC NUMBER 1310xxxxx-0-0 REV X01

CHANGE by XXX DATE 21-OCT-2002

SHEET 36 of 57



CRT



INVENTEC

TITLE MODEL PROJECT,FUNCTION

SIZE CODE DOC NUMBER REV

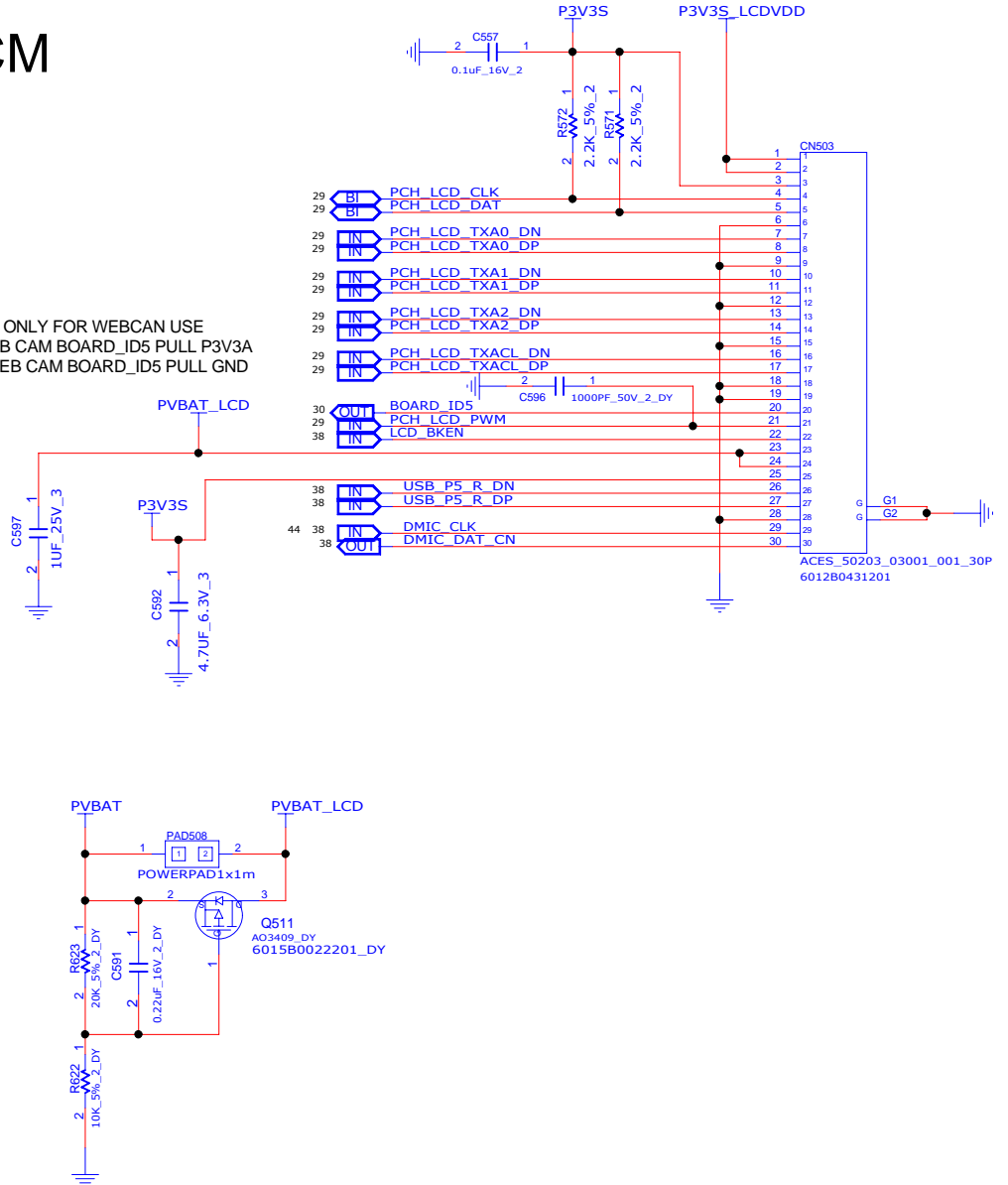
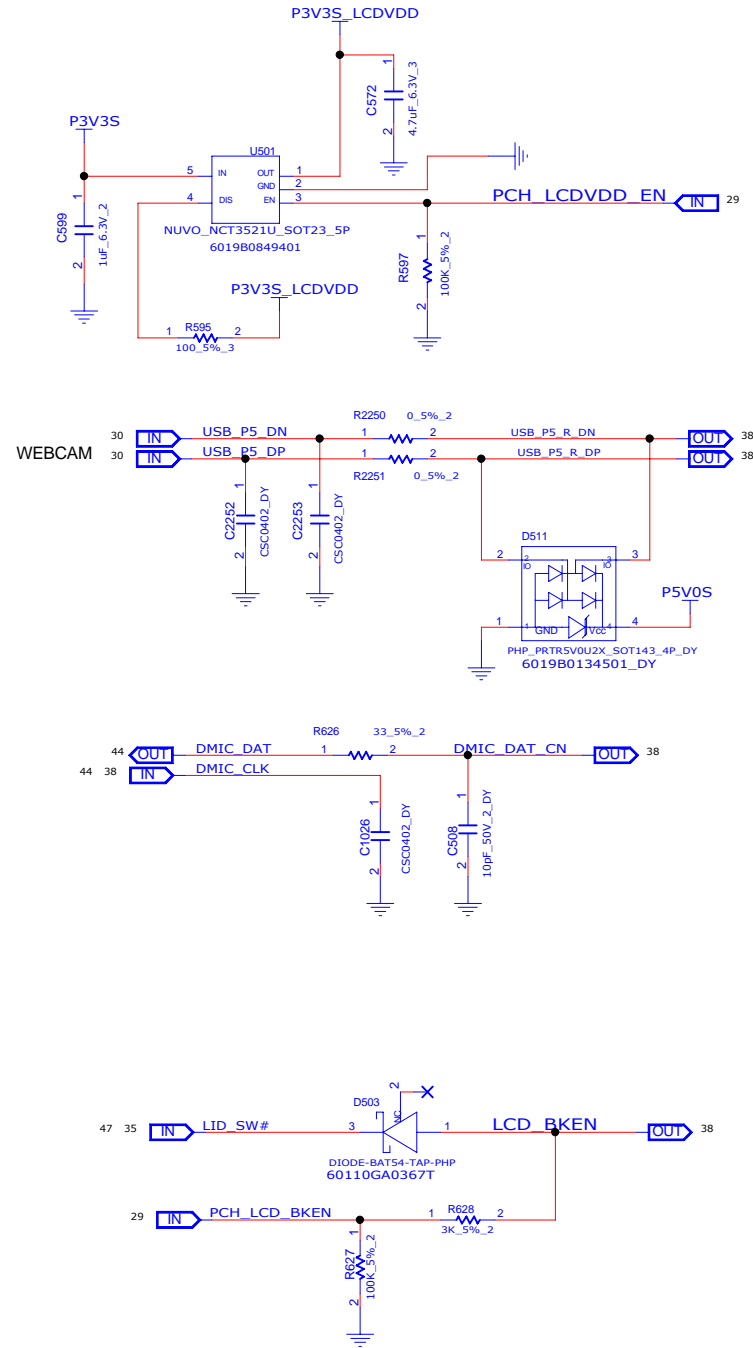
A3 CS 1310xxxx-0-0 X01

CHANGE by XXX DATE 21-OCT-2002

SHEET 37 of 57

LCM

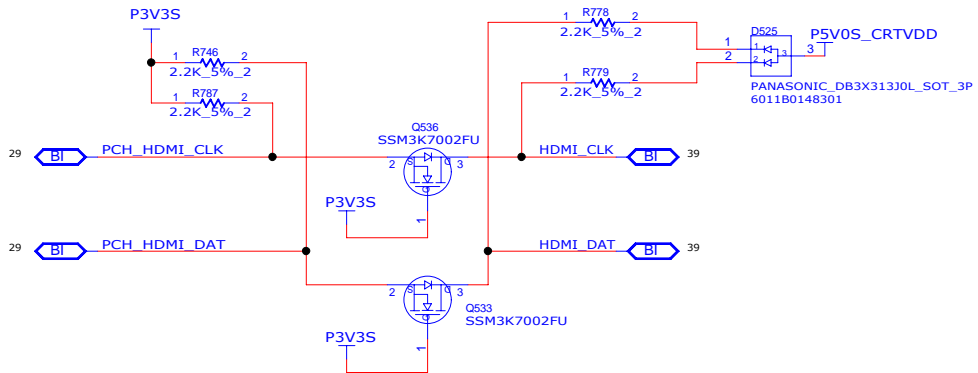
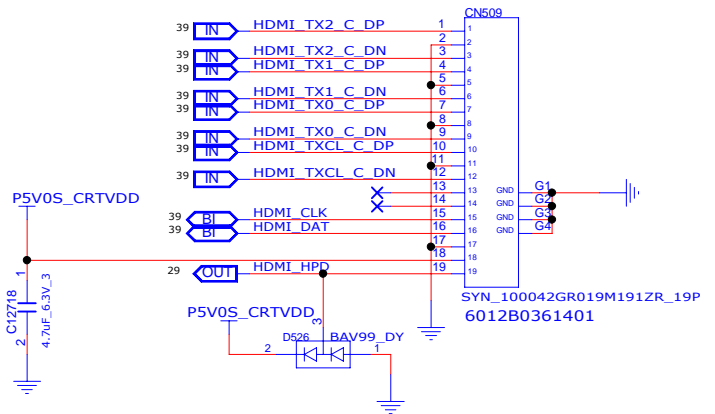
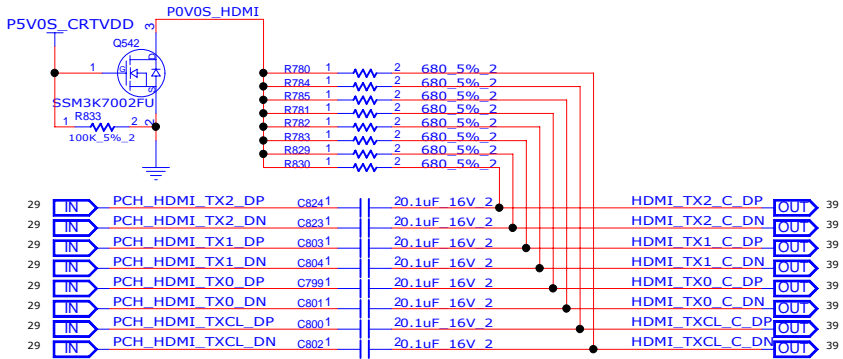
BOARD_ID5 ONLY FOR WEBCAM USE
FOR HD WEB CAM BOARD_ID5 PULL P3V3A
FOR VGA WEB CAM BOARD_ID5 PULL GND



INVENTEC

TITLE			
MODEL PROJECT,FUNCTION			
SIZE A3	CODE CS	DOC NUMBER 1310xxxx-0-0	REV X01

HDMI



INVENTEC

TITLE			
MODEL,PROJECT,FUNCTION			
HDMI" CONN			
SIZE A3	CODE CS	DOC.NUMBER 1310xxxxx-0-0	REV X01
SHEET 39 of 57			

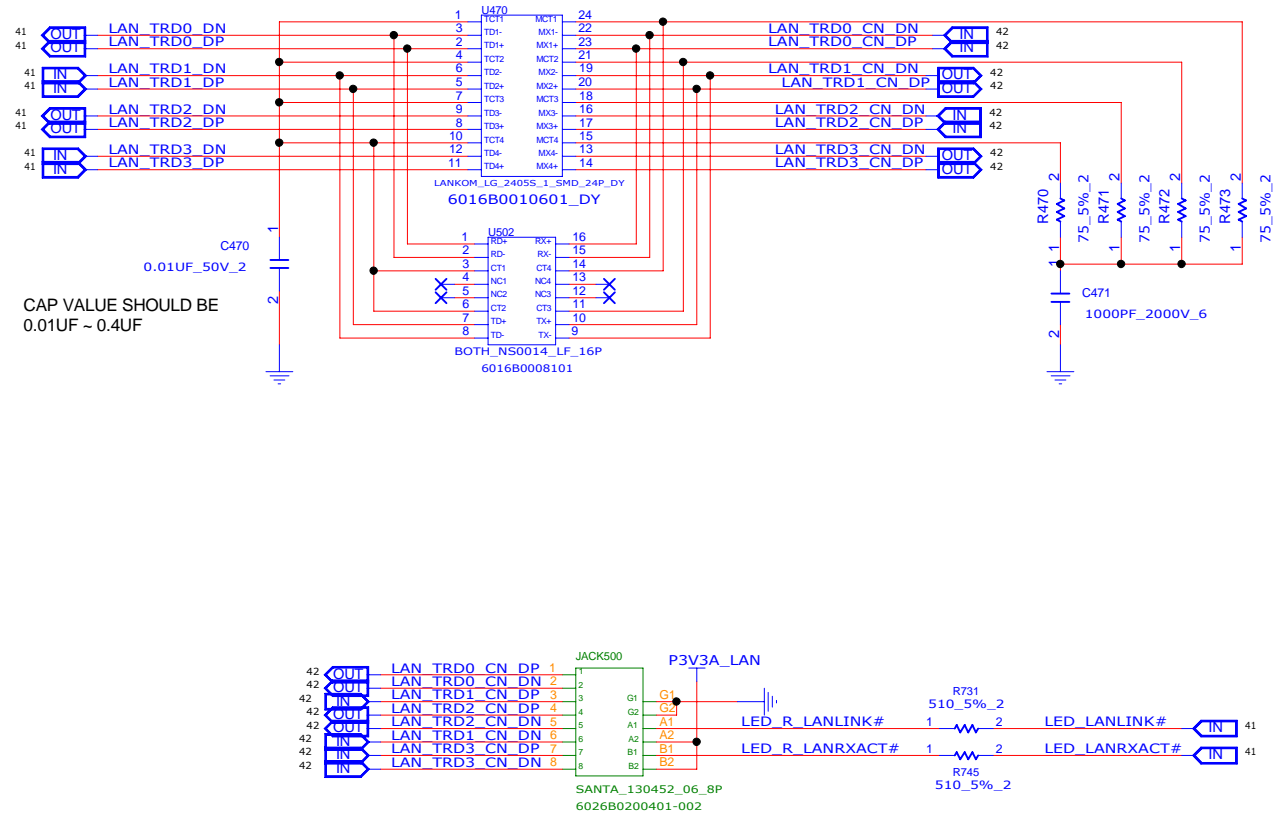
Schematic diagram of the SATA power supply circuit for the FOX GS12201_1011_9H_20P power supply. The circuit shows a P5V0S input connected to a 22µF 6.3V_5 capacitor (C1008) and a 0.1µF 18V_2 capacitor (C1007). The output of the capacitors is connected to the SATA power pins (SATA HDD RX_DP, SATA HDD RX_DN, SATA HDD TX_DN, SATA HDD TX_DP) through a series of capacitors (C971, C972, C970, C969). The SATA power pins are also connected to the power pins of the FOX GS12201_1011_9H_20P power supply (G1, G2, G3, G4).

[illegible]

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TRANSFORMER

U470 FOR GIGALAN
U502 FOR 10/100 LAN



INVENTEC

TITLE
MODEL, PROJECT, FUNCTION
RJ45 & TRANSFORMER

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

CHANGE by XXX DATE 21-OCT-2002 SHEET 42 of 57

D

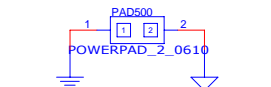
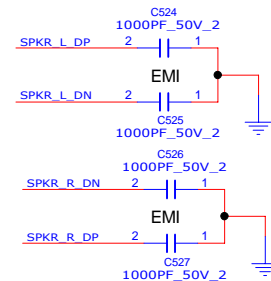
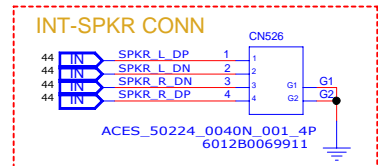
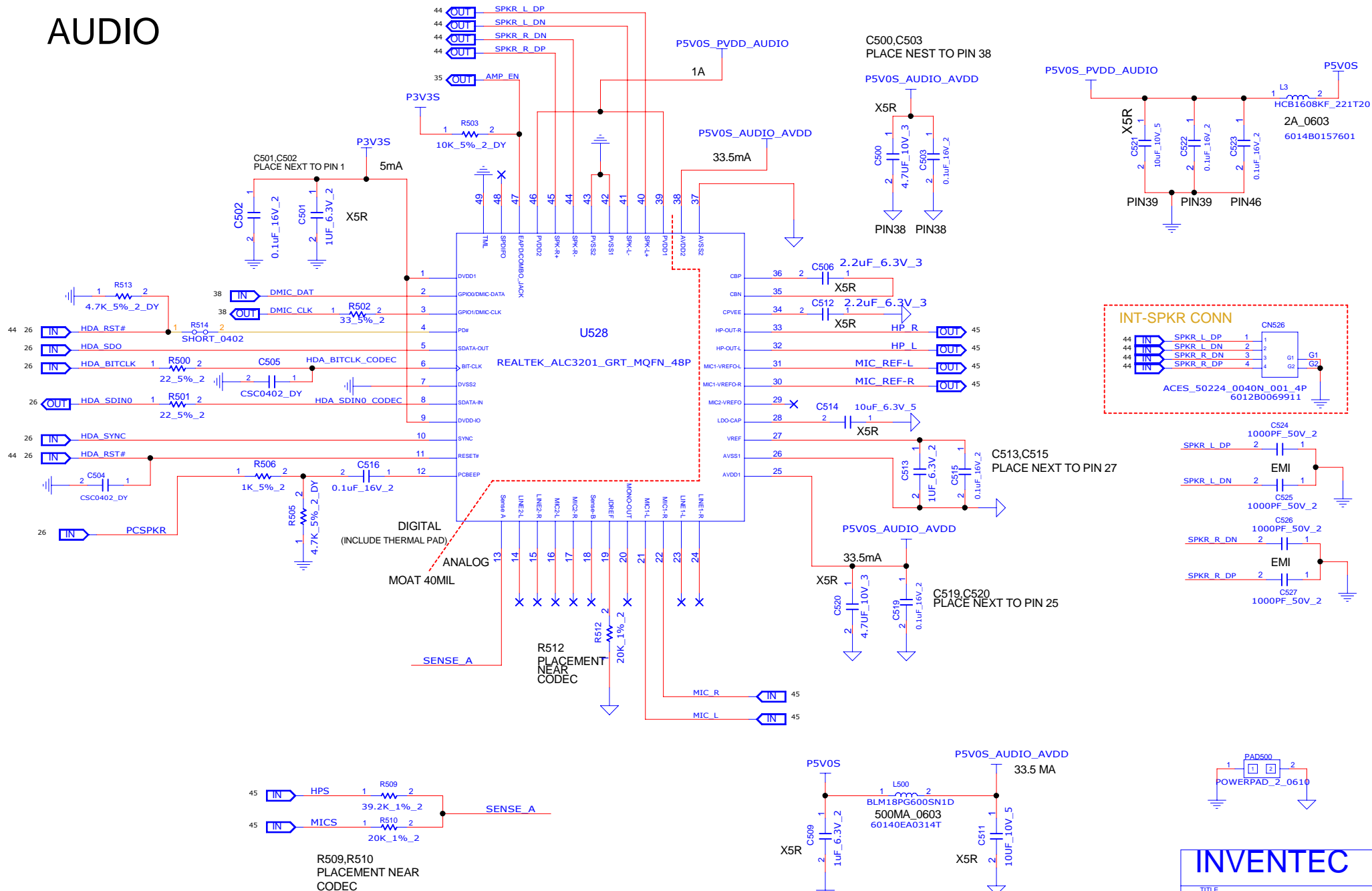


B

A

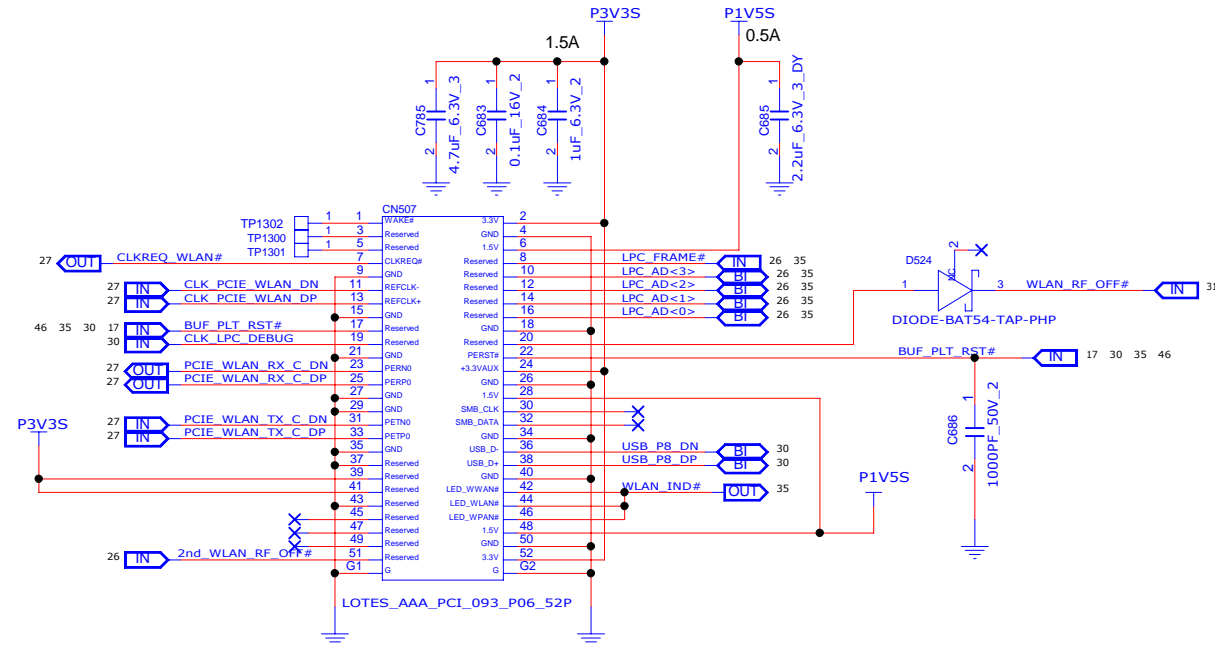
CHANGE by	XXX	DATE	21-OCT-2002	SHEET	43	of	57
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AUDIO



INVENTEC			
TITLE			
MODEL PROJECT,FUNCTION			
DOC NUMBER			
1310xxxxx-0-0			
REV			
X01			
SIZE	CODE	SHEET	
A3	CS	44 of 57	

WLAN CONN (MINICARD)



SI build change to 6026B0221502

MARILYN	ATHEROS	AR5B125	VENDOR ID : 0X168C	DEVICE ID : 0X0032	(SSID) SUBSYSTEM ID : 0X1838	SUBSYSTEM VENDOR ID : 0X103C	HP P/N : 670036-001
RIIPPLE3	FOXCONN	RALINK RT5390	0X1814	0X539A	0X1839	0X103C	670285-001

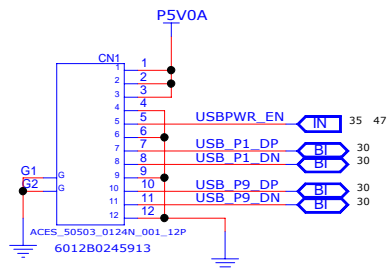
INVENTEC

TITLE			
MODEL, PROJECT, FUNCTION			
WLAN & BT			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01

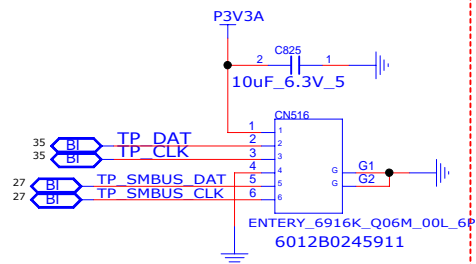
CHANGE by XXX DATE 21-OCT-2002

SHEET 46 of 57

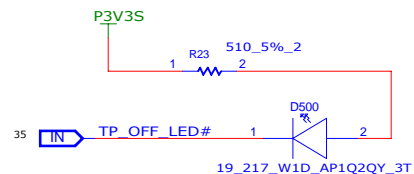
USB 2.0 BOARD Cable CONN on MB



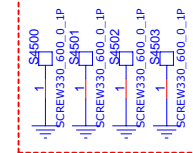
TouchPad Module CONN



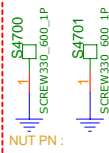
TOUCHPAD LED ON MB



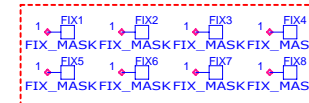
for CPU



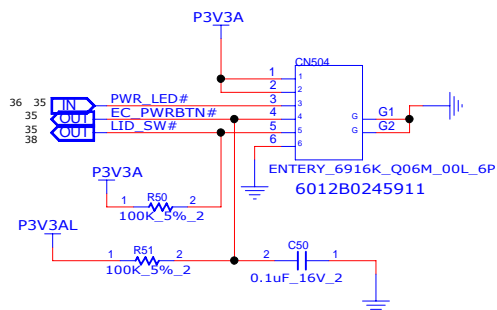
for GPU



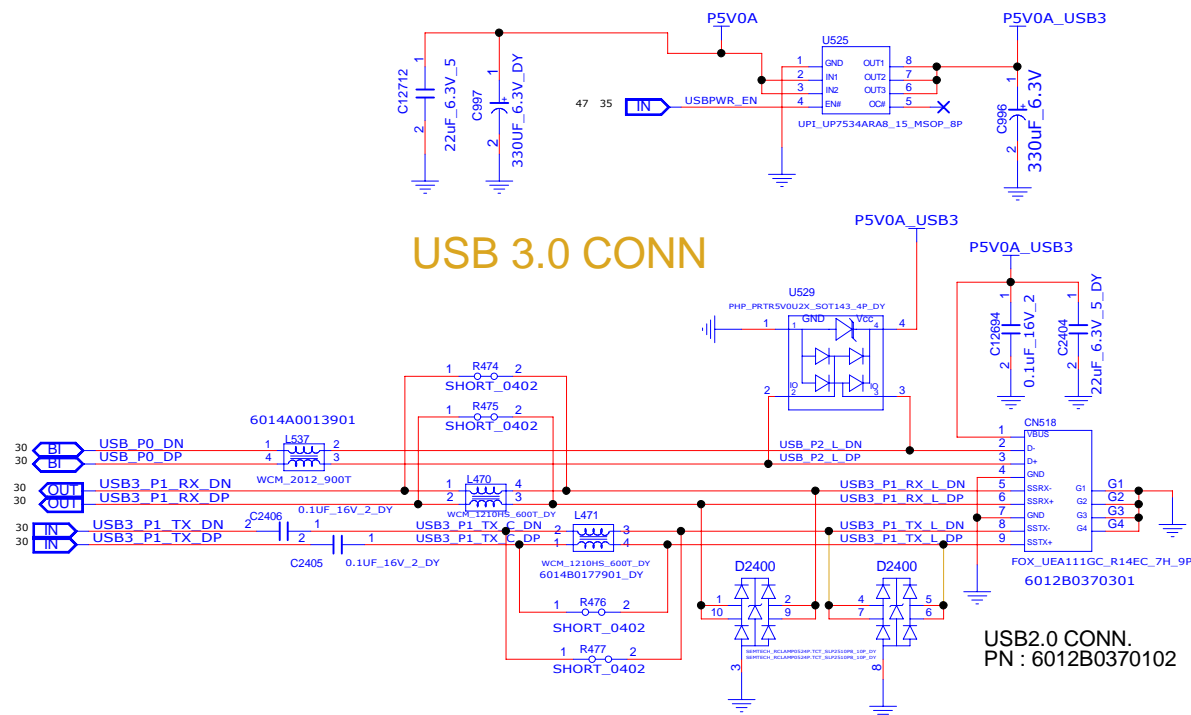
NUT PN :
6052B0160501



POWER BUTTON CONN ON MB

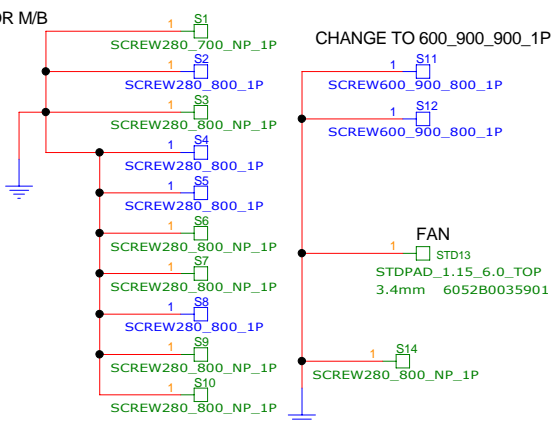


USB 3.0 CONN



USB2.0 CONN.
PN : 6012B0370102

FOR M/B



INVENTEC

TITLE			
MODEL PROJECT FUNCTION			
USB 3.0 CONN & M/B TO D/B CONN			
DOC NUMBER		REV	
1310xxxxx-0-0		X01	
SIZE	CODE	SHEET	
A3	CS	47 of 57	

CHANGE by XXX DATE 21-OCT-2002

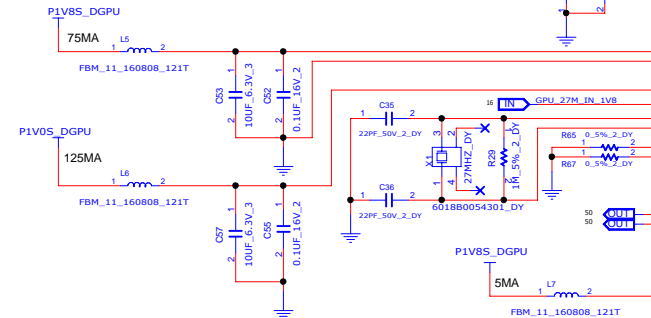
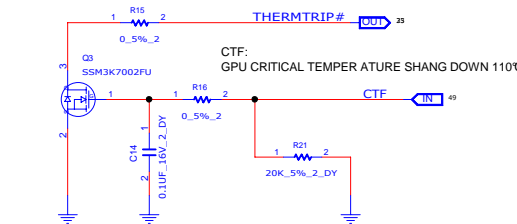
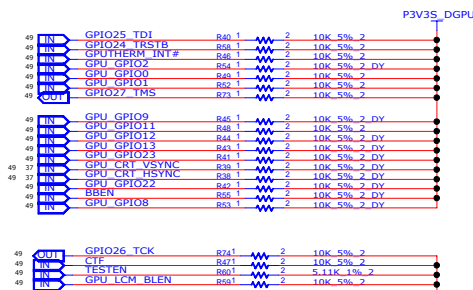
MEM_ID3	MEM_ID2	MEM_ID1	MEM_ID0	2Gb * 4 = 1GB
0	0	0	0	SAMSUNG C-DIE K4W2G1646C-HC11
0	0	0	1	HYNIX D-DIE H5TQ2G63DFR-11C
0	0	1	0	MICRON MT41J128M16HA-107G-D
0	0	1	1	

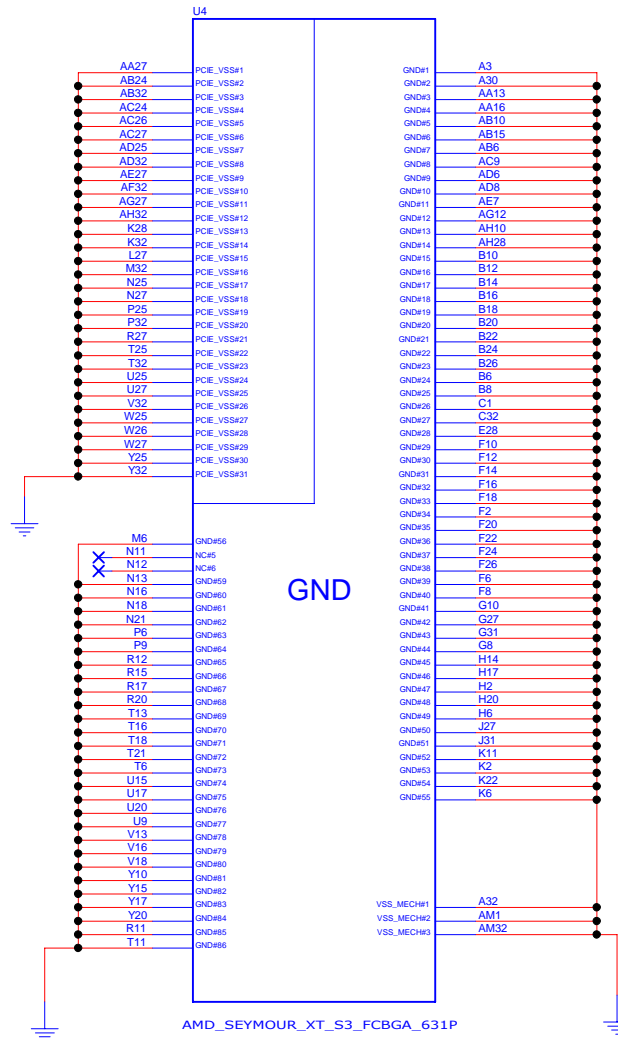
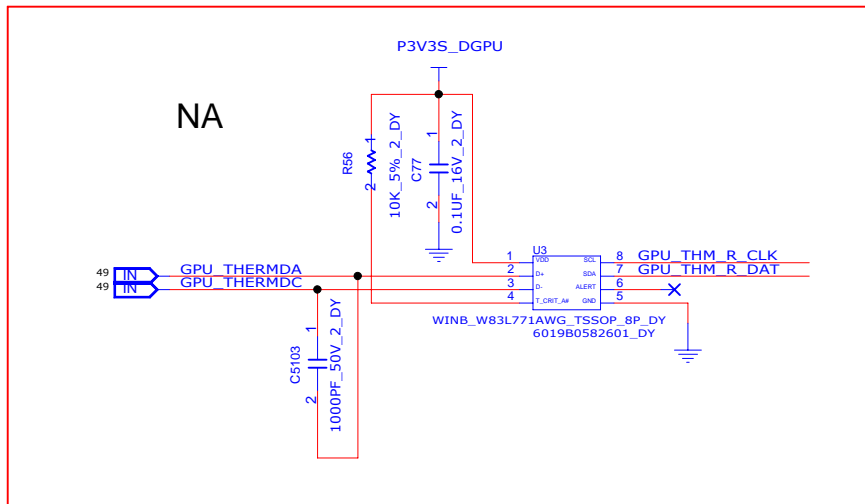
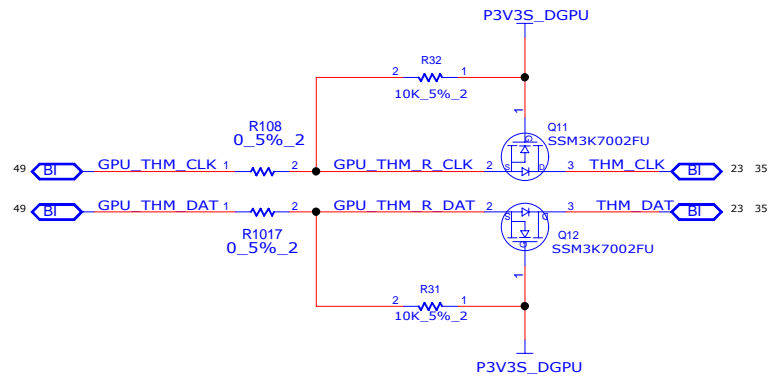
128M * 16 * 4
128M * 16 * 4
128M * 16 * 4

PN : 6019B0818601
PN : 6019B0938301
P/N : APPLY

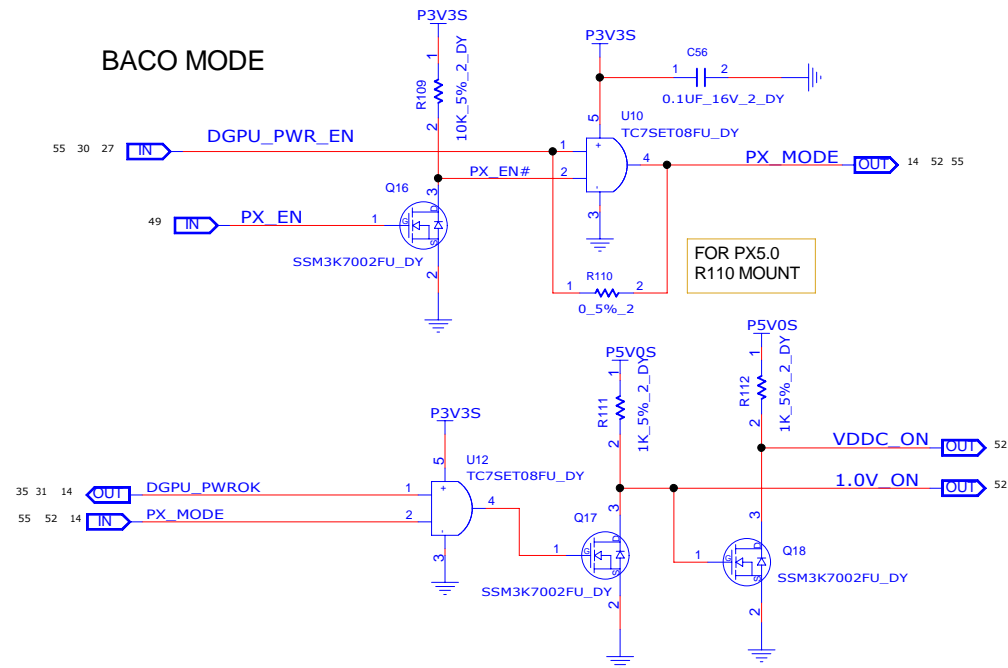
STRAPS	PIN	DESCRIPTION OF DEFAULT SETTING
TX_PWRS_ENB	GPIO0	PCIE FULL TX OUTPUT SWING
TX_DEEMPH_EN	GPIO1	PCIE TRANSMITTER DE-EMPHASIS ENABLED
BIF_GEN2_EN_A	GPIO2	PCIE GEN2 ENABLED
BIF_DEBUG_ACCESS	GPIO4	DEBUG SIGNALS MUXED OUT
BIF_VGA_DIS	GPIO7_BLON	CONTROL BACKLIGHT ON/OFF
BIF_VGA_DIS	GPIO9	VGA ENABLED
ROMIDCFG(2:0)	GPIO[11:13]	MEMORY APERTURE SIZE SELECT

GPIO_13	GPIO_12	GPIO_11	MEMORY APERTURE SIZE
0	0	1	512/256 MB (DEFAULT)
1	1	0	RESERVED

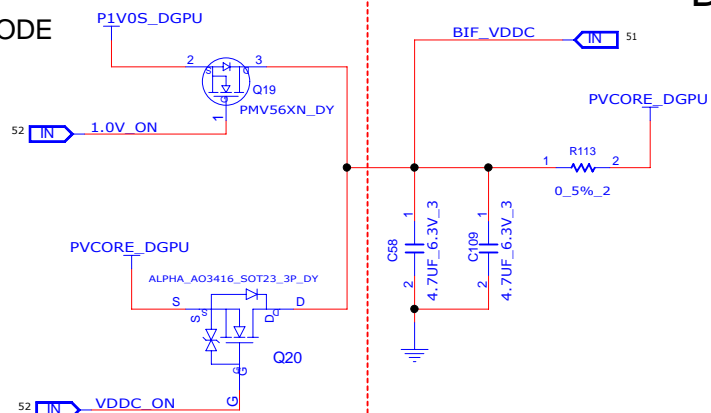




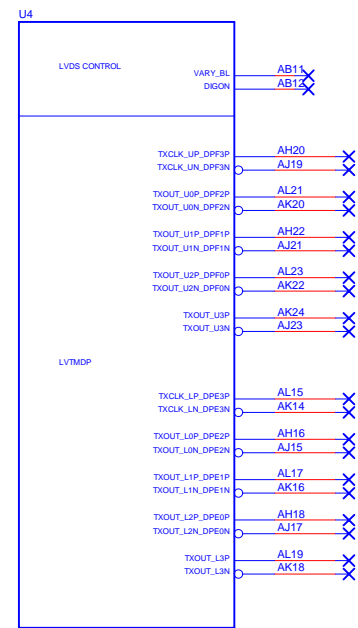
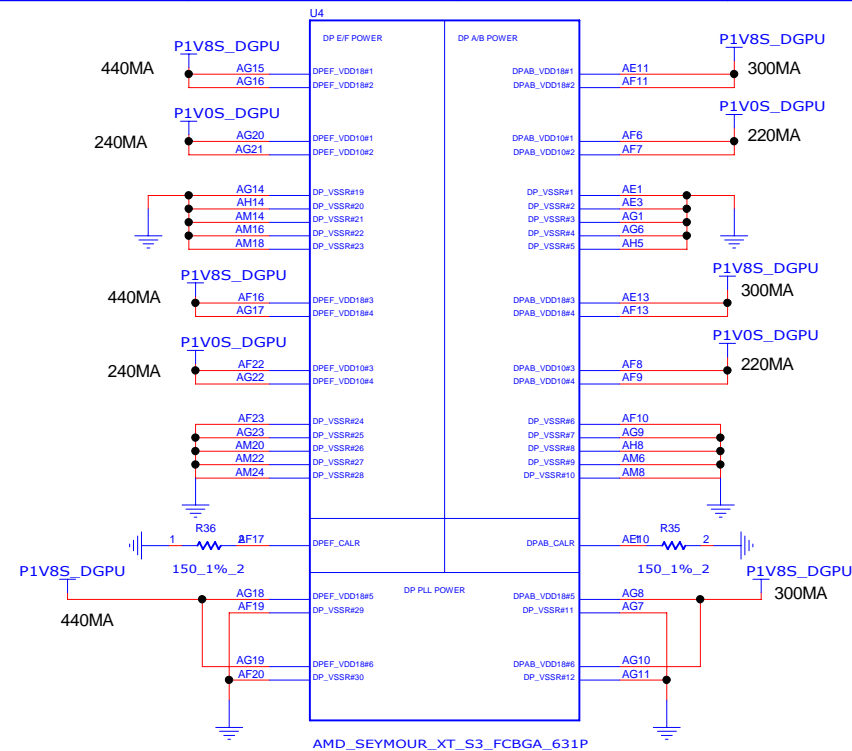
BACO MODE



BACO MODE



DEFULT IS PX5.0



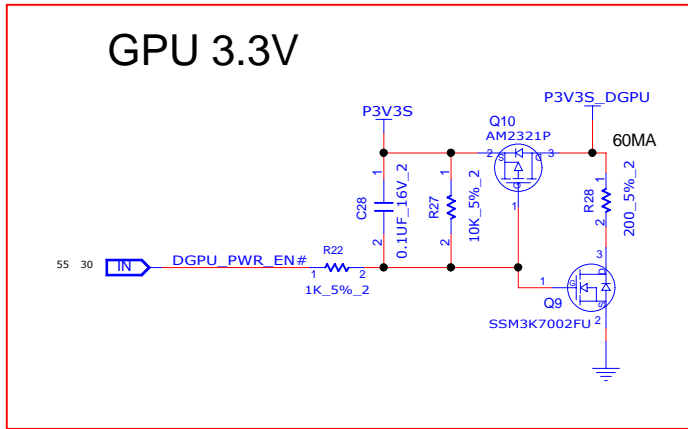
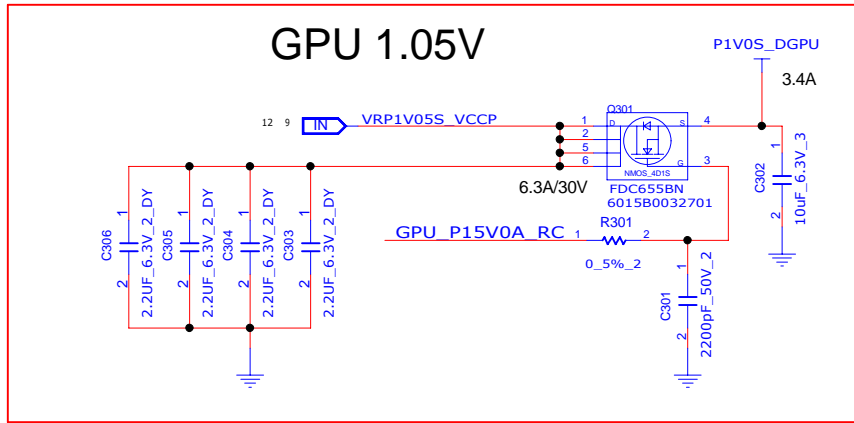
INVENTEC

TITLE			
MODEL PROJECT,FUNCTION			
SEYMOUR_XT-S3			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01

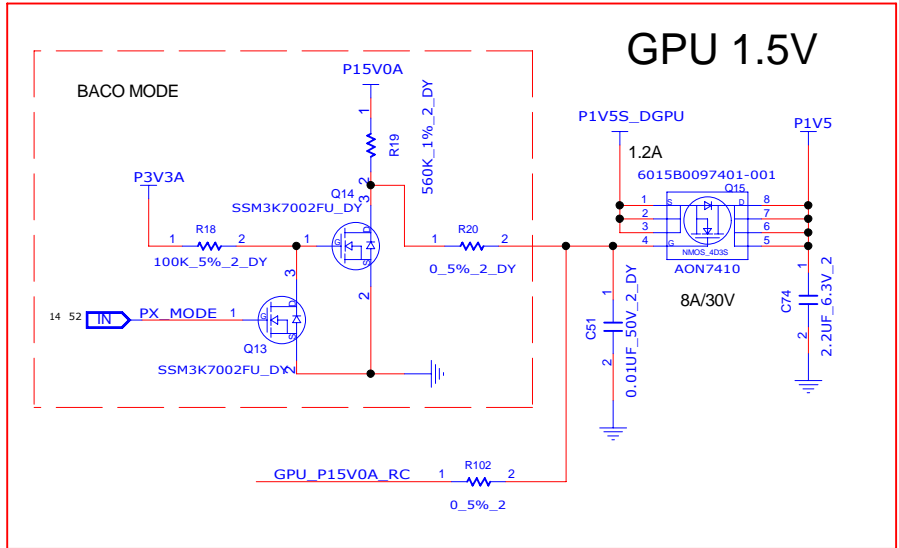
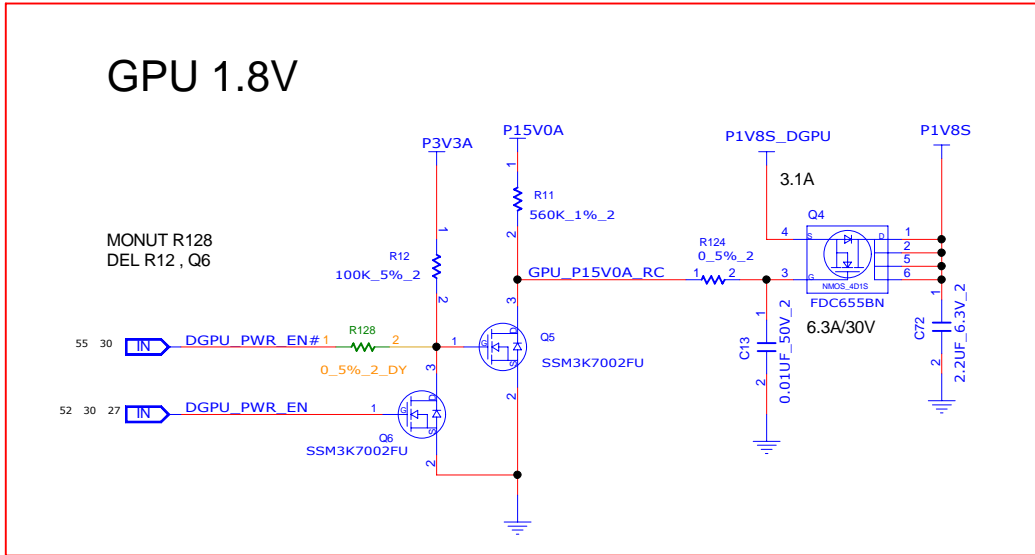
CHANGE by XXX DATE 21-OCT-2002

SHEET 52 of 57





DEFULT IS PX5.0



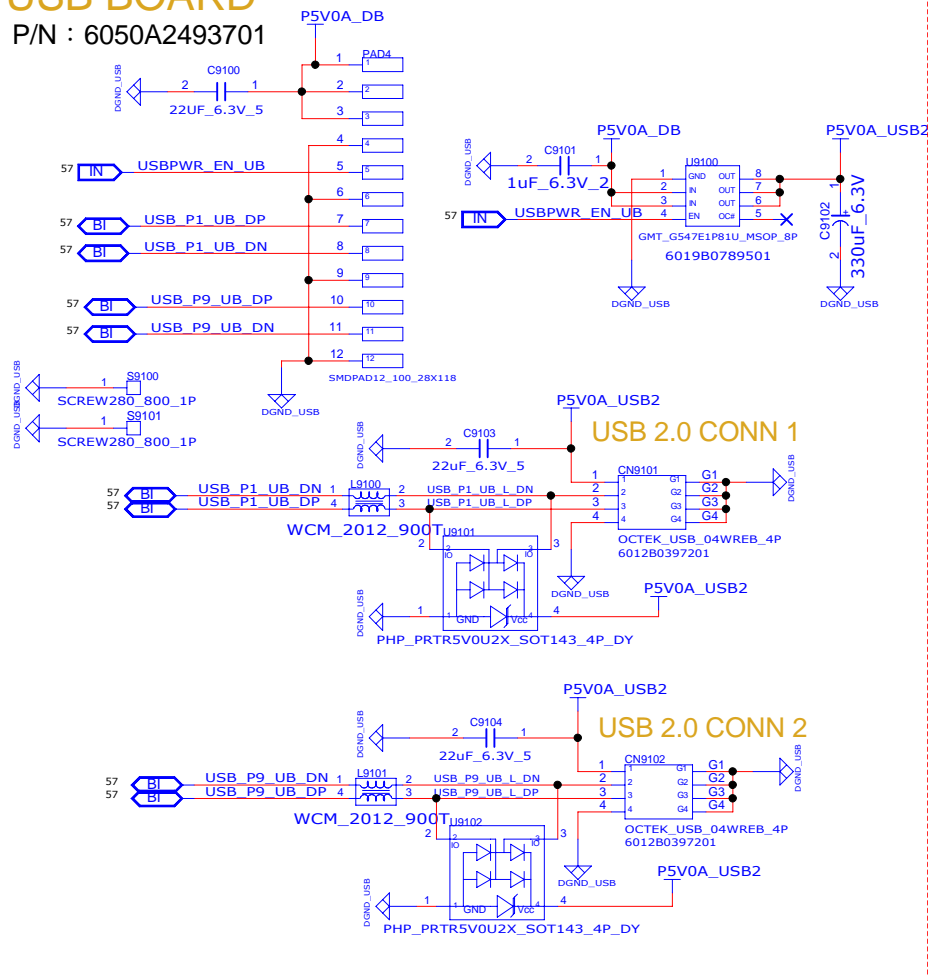
INVENTEC

TITLE			
MODEL, PROJECT, FUNCTION			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310xxxxx-0-0	X01

CHANGE by XXX DATE 21-OCT-2002

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P/N : 6050A2493701



for Dauther Board:

Diagram illustrating the mapping of 16-bit FIX masks to 32-bit FIX masks:

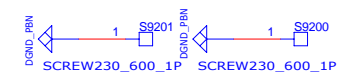
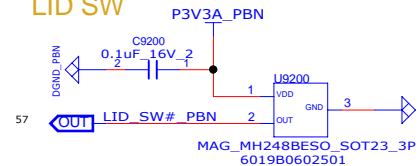
- Top row (16-bit masks):
 - FIX9100: 1 (high bit), X (low bit)
 - FIX9101: 1 (high bit), X (low bit)
 - FIX9102: 1 (high bit), X (low bit)
 - FIX9103: 1 (high bit), X (low bit)
- Bottom row (32-bit masks):
 - FIX9200: 1 (high 16 bits), X (low 16 bits)
 - FIX9201: 1 (high 16 bits), X (low 16 bits)
 - FIX9202: 1 (high 16 bits), X (low 16 bits)
 - FIX9203: 1 (high 16 bits), X (low 16 bits)

Arrows indicate the mapping from 16-bit masks to 32-bit masks.

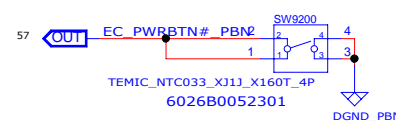
POWER BUTTON BOARD

P/N : 6050A2493201

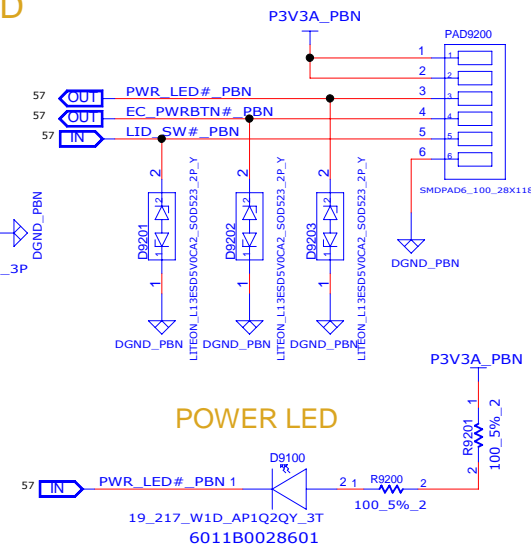
LID SW



POWER BUTTON

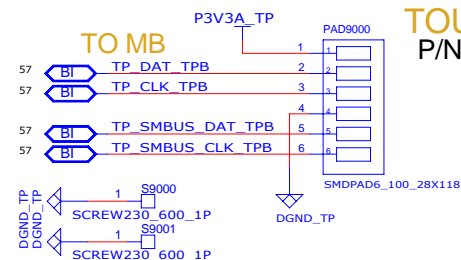


POWER LED

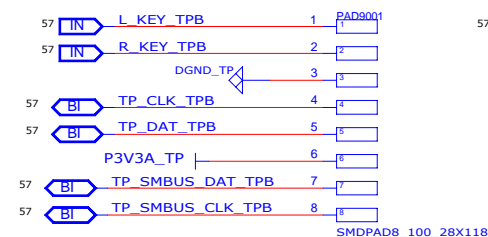


TOUCHPAD R / L BOARD

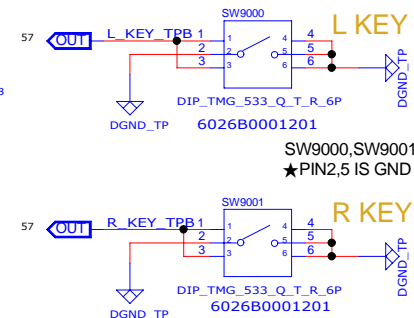
P/N : 6050A2493601



TO T/P MODULE



TP SMB(I2C) ADDRESS IS 0X2C



INVENTEC

TITLE			
MODEL, PROJECT, FUNCTION USB, POWER BUTTON DB			
SIZE A3	CODE CS	DOC. NUMBER 1310xxxxx-0-0	REV X01

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