

Index

PAGE

- 01. PROJECT NAME
- 02. INDEX
- 03. Block Diagram
- 04. POWER Procedure
- 05. DC & CHARGE Circuit
- 06. Battery CONN
- 07. +V3A & +V5A
- 08. +V1.5 & +V0.75
- 09. +V1.8S & +V1.05S
- 10. +VCC_CORE
- 11. +VGFX_CORE
- 12. VTT & VPCIE & VDDC_GPU
- 13. +V5S & +V3S
- 14. CLK GEN
- 15. CPU-1
- 16. CPU-2
- 17. CPU-3
- 18. CPU-4
- 19. CPU-5
- 20. CPU-6
- 21. Thermal, Fan & XDP
- 22. DDR3-1
- 23. DDR3-2
- 24. PCH-1
- 25. PCH-2
- 26. PCH-3
- 27. PCH-4
- 28. PCH-5
- 29. PCH-6
- 30. PCH-7

PAGE

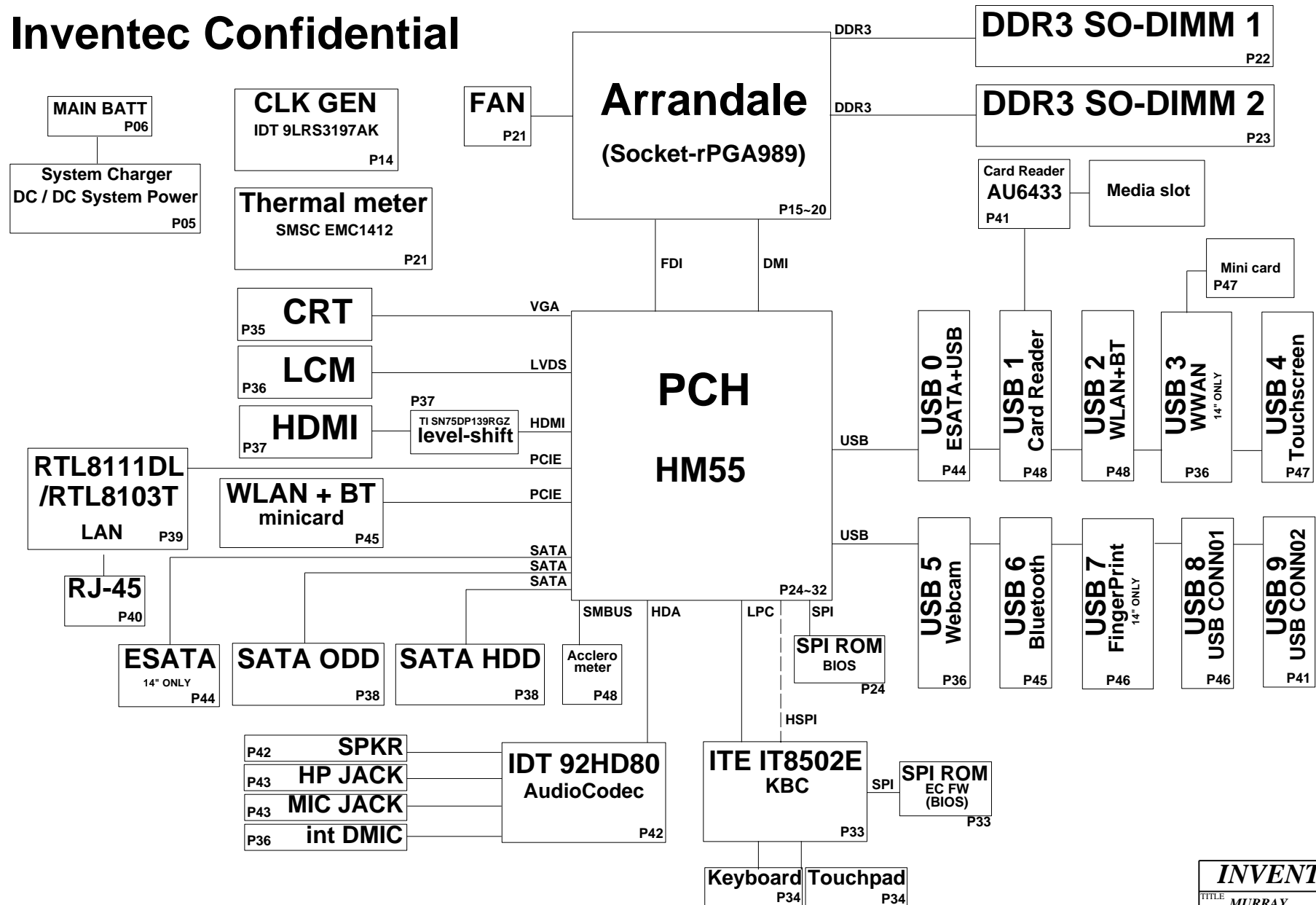
- 31. PCH-8
- 32. PCH-9
- 33. KBC
- 34. Keyboard & TouchPad
- 35. CRT CONN
- 36. LCM CONN
- 37. HDMI CONN
- 38. SATA HDD & ODD
- 39. LAN
- 40. RJ-45
- 41. Card Reader
- 42. Audio Codec
- 43. HP JACK & MIC JACK
- 44. ESATA, SCREW
- 45. WLAN & BlueTooth
- 46. USB, PowerButton(DB)
- 47. WWAN(Optional)
- 48. FP & HD LOCK(Optional)

INVENTEC

TITLE MURRAY <i>Index</i>			
SIZE A3	CODE CS	DOC. NUMBER 1310A23512-0-MTR	REV A03
SHEET		2	OF 48

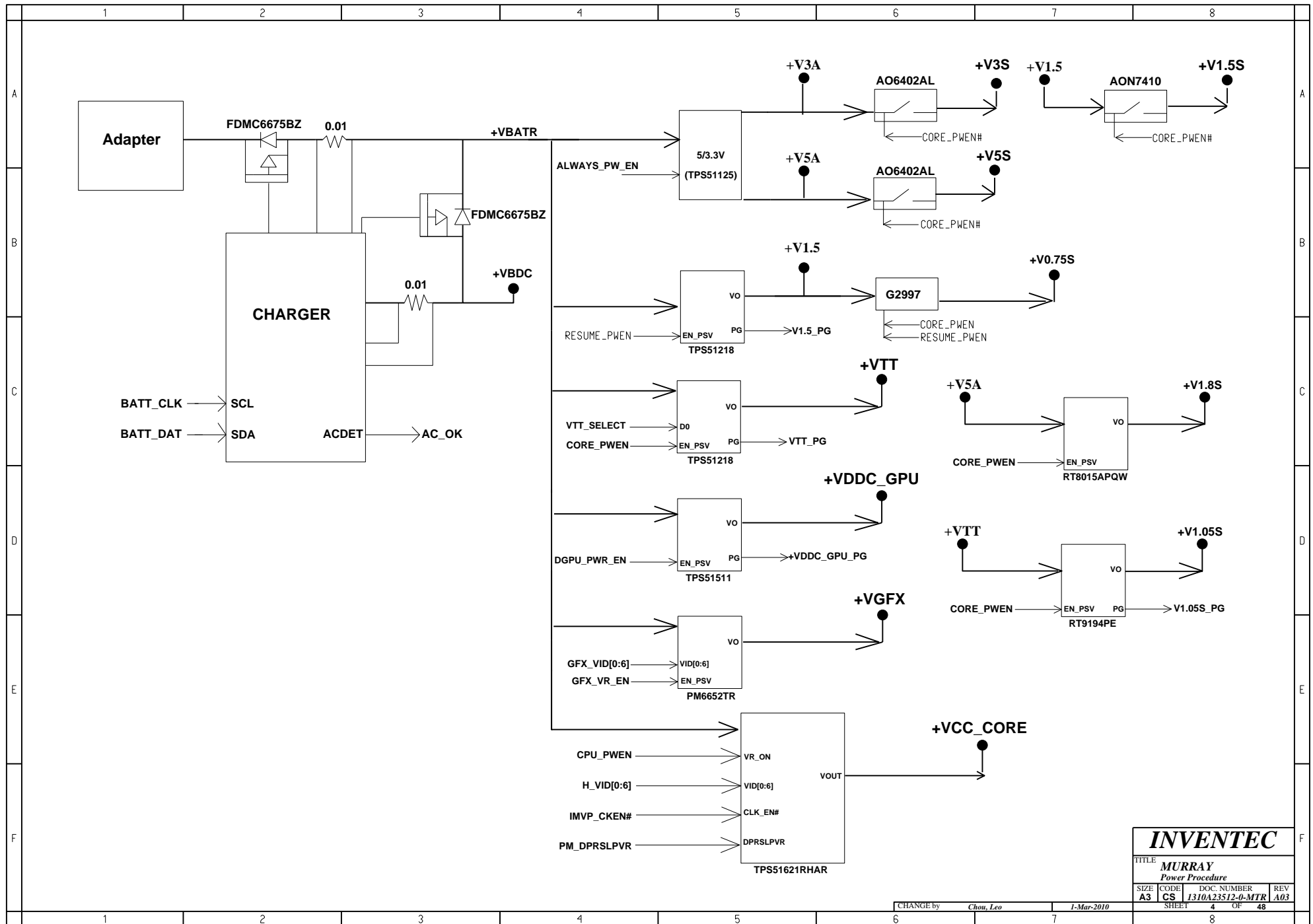
CHANGE by *Chou, Leo* 1-Mar-2010

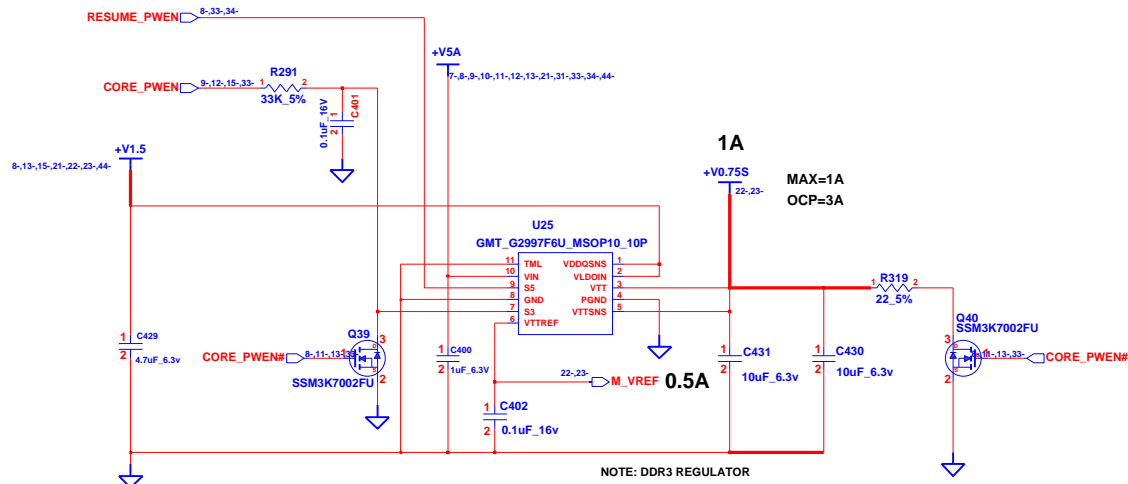
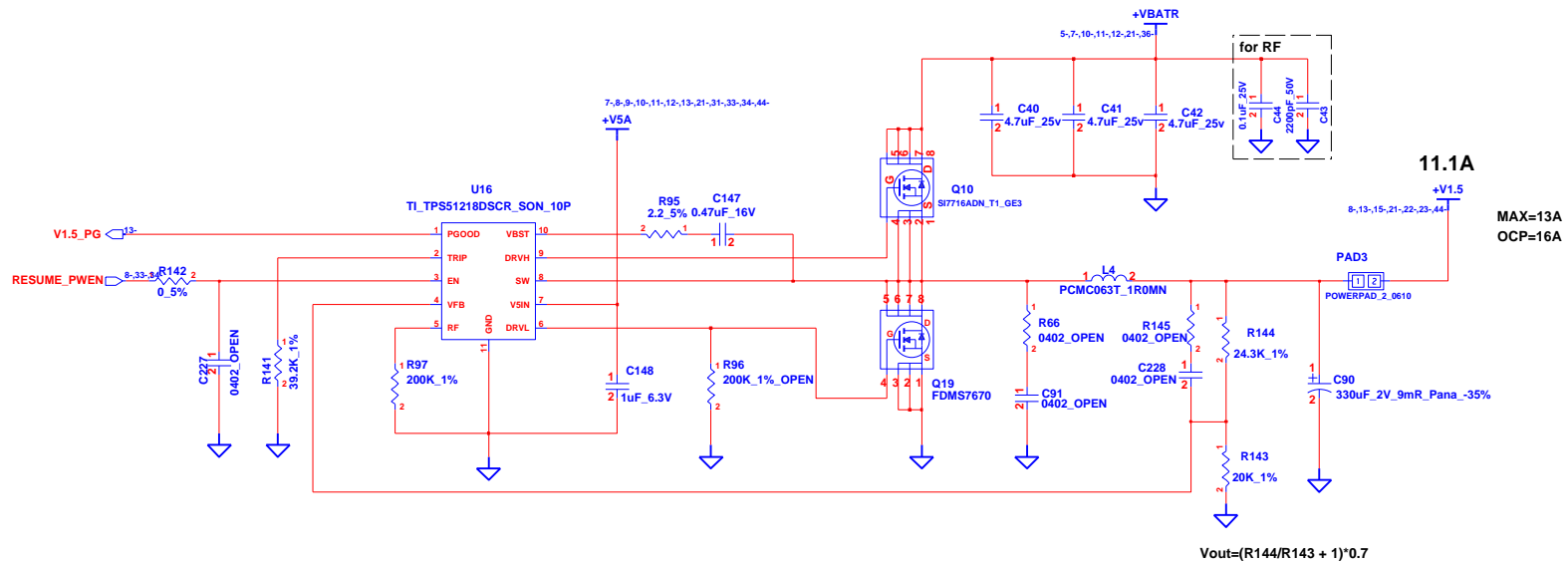
Inventec Confidential


INVENTEC

TITLE			
MURRAY			
Block Diagram			
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SHEET		3	OF 48

CHANGE by Chou, Leo 1-Mar-2010

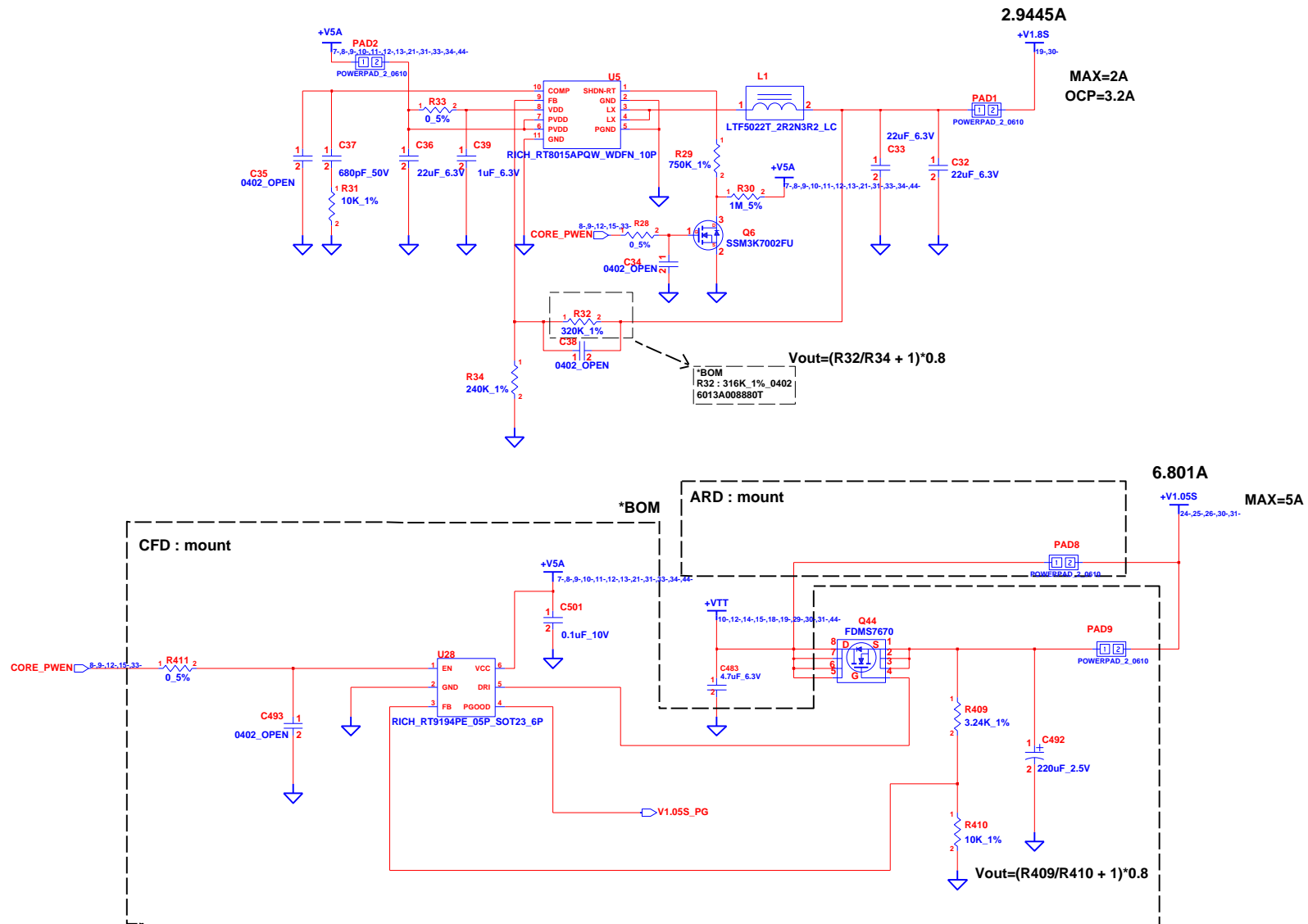




INVENTEC

TITLE			
MURRAY			
+V1.5 & +V0.75			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A23512-0-MTR	A03
SHEET		8	OF 48

CHANGE by Chou, Leo 1-Mar-2010

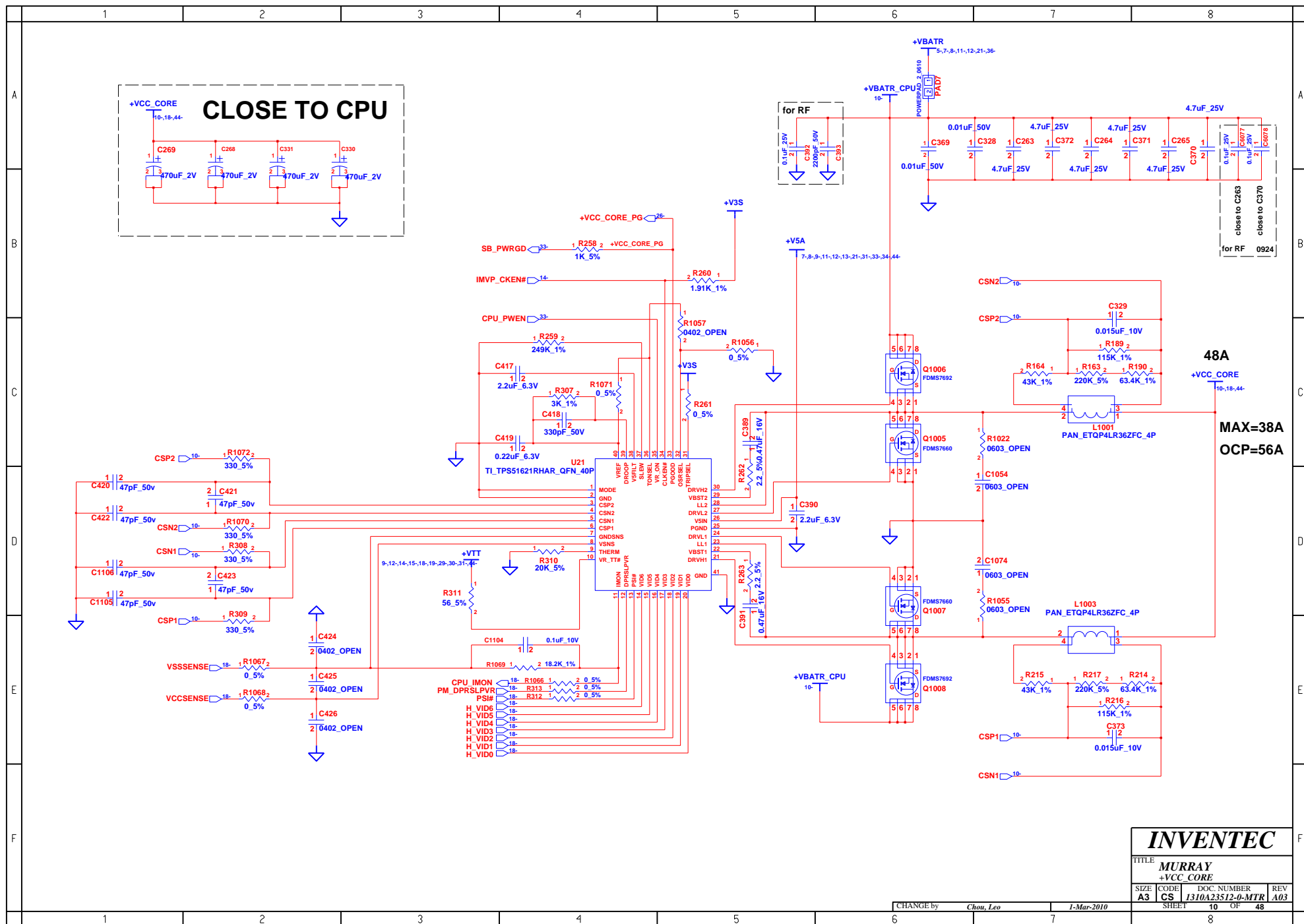


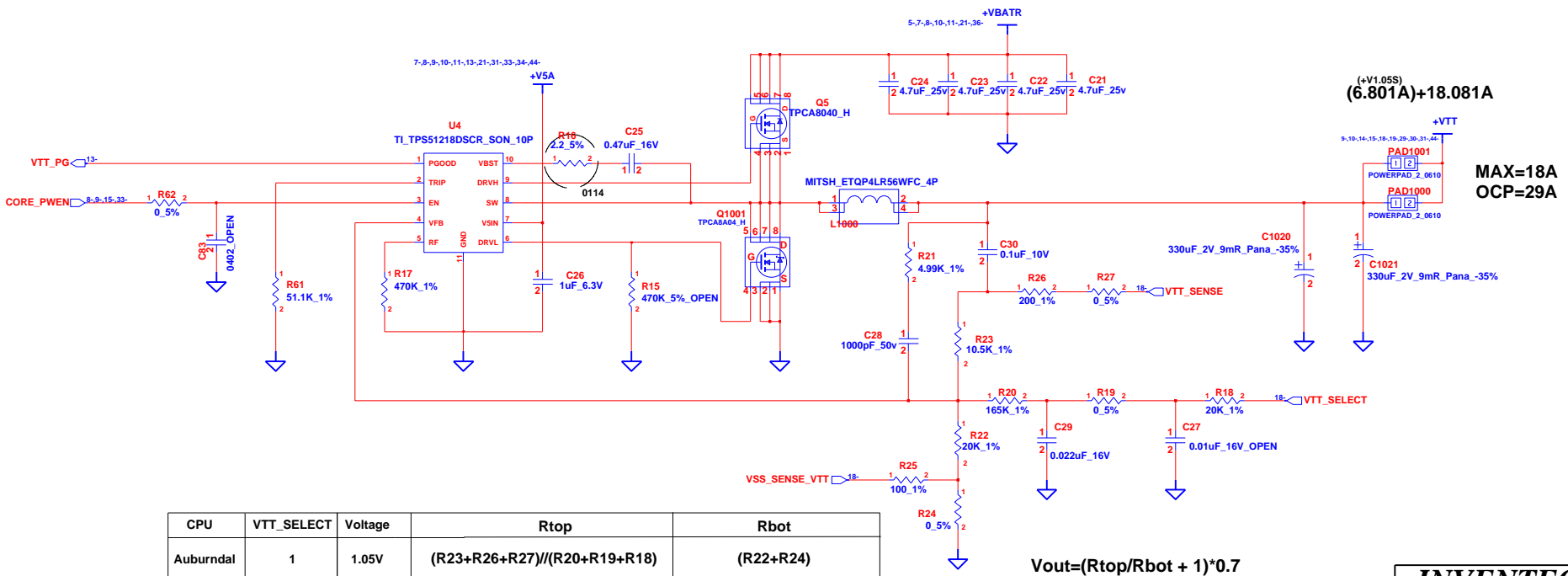
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MURRAY			
+V1.8S & +V1.05S			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A23512-0-MTR	A03

CHANGE by Chou, Leo 1-Mar-2010

SHEET 9 OF 48





CPU	VTT_SELECT	Voltage	Rtop	Rbot
Auburndal	1	1.05V	$(R23+R26+R27)/(R20+R19+R18)$	$(R22+R24)$
Clarksfield	0	1.1V	$(R23+R26+R27)$	$(R22+R24)/(R20+R19+R18)$

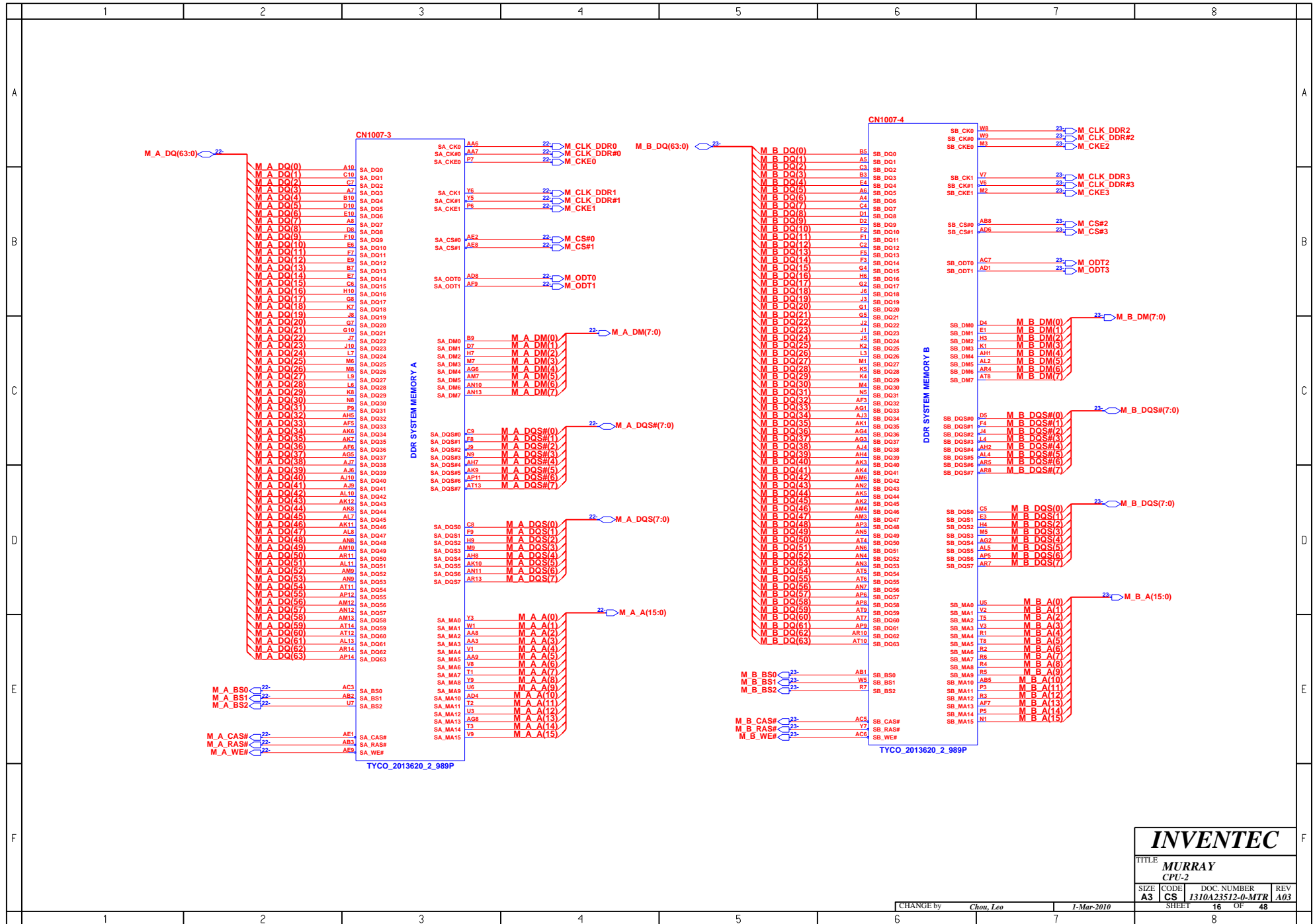
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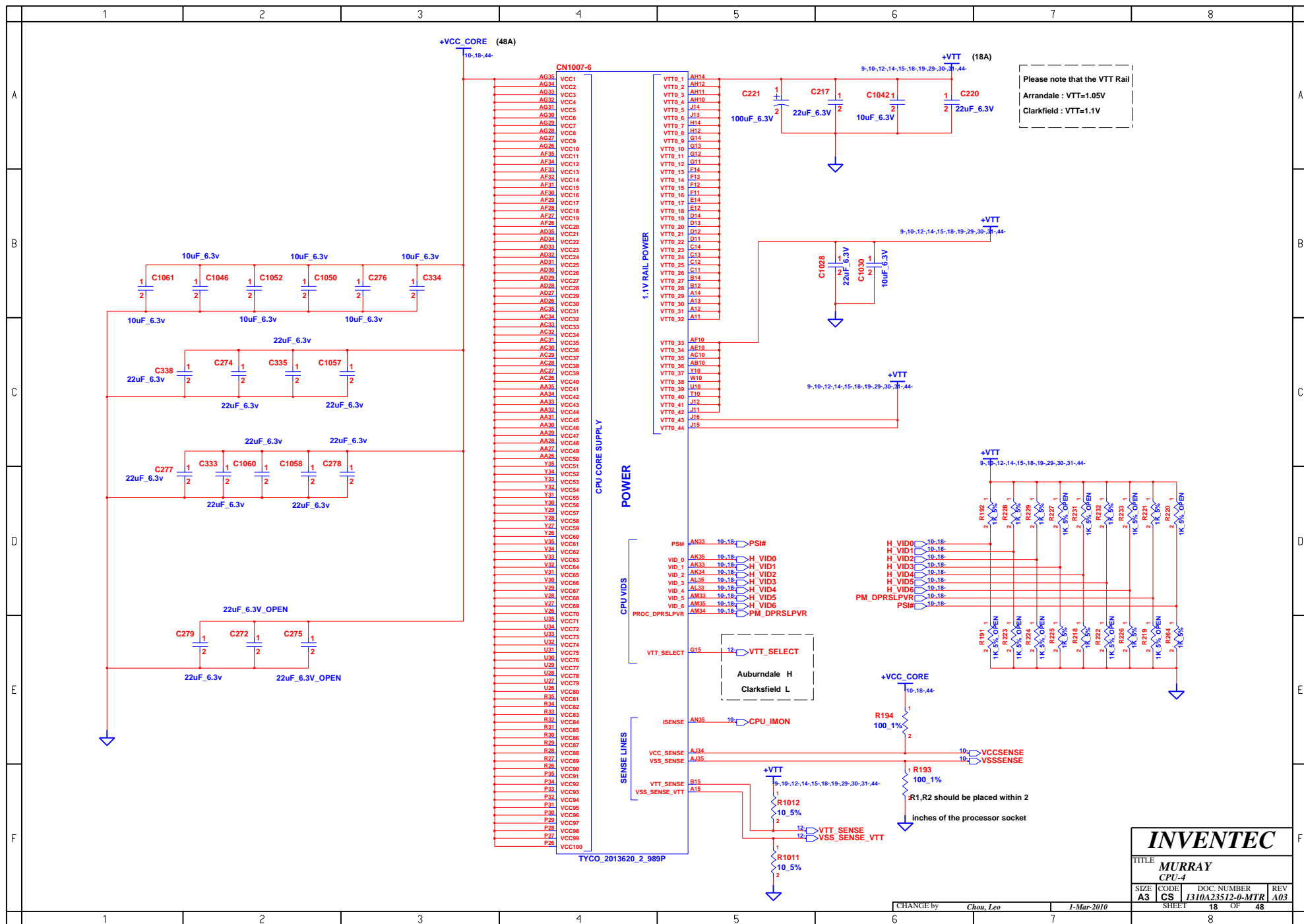
TITLE MURRAY Reserve Page			
SIZE A3	CODE CS	DOC. NUMBER 1310A23512-0-MTR	REV A03
SHEET 12		OF 48	

CHANGE by *Chou, Leo* 1-Mar-2010

TITLE			
MURRAY CLK GEN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A23512-0-MTR	A03
SHEET		14	OF 48

CHANGE by	<i>Chou, Leo</i>	<i>1-Mar-2010</i>
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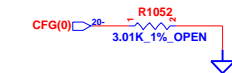
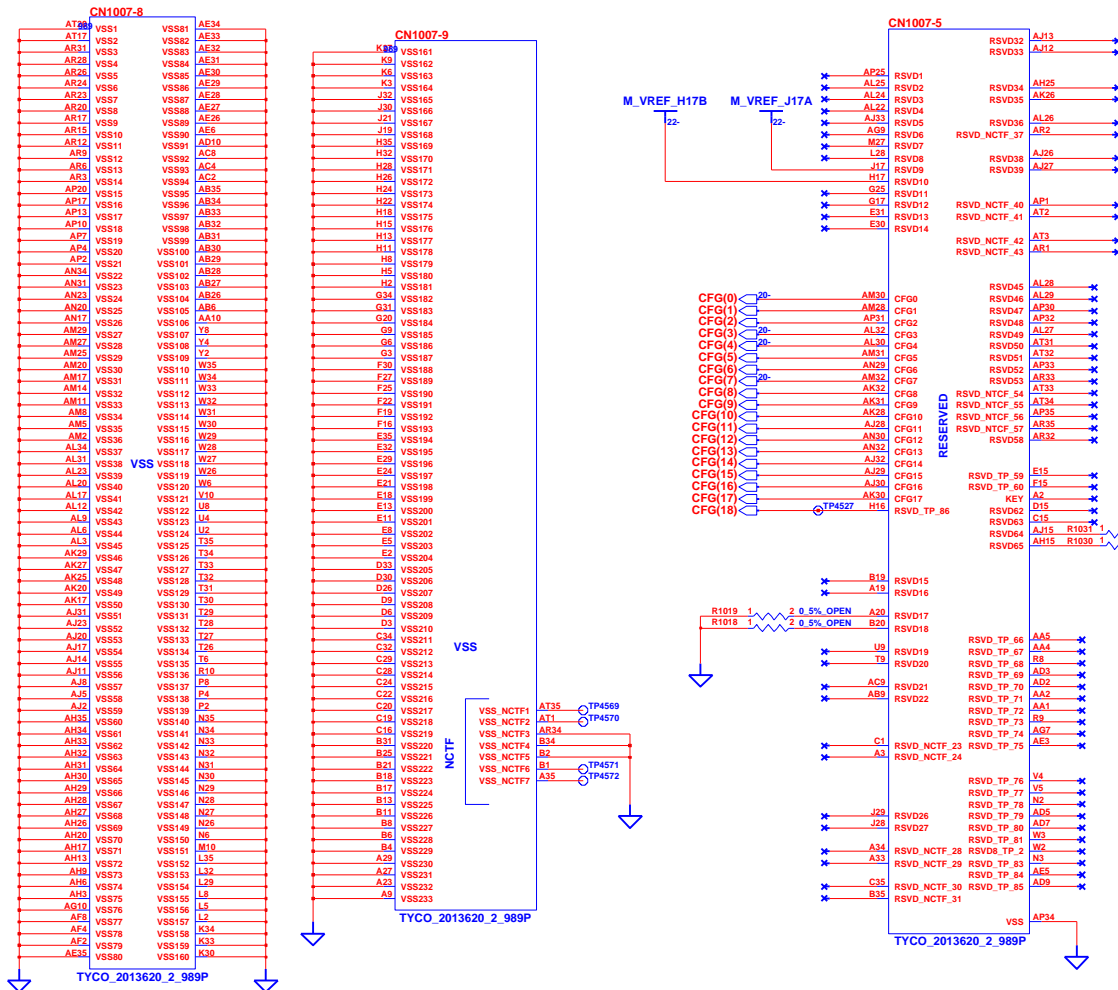




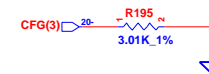
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MURRAY CPU-5			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A23512-0-MTR	A03
SHEET		19	OF 48

CHANGE by	<i>Chou, Leo</i>	<i>1-Mar-2010</i>
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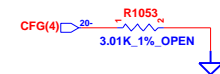
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SHEET	19	OF 48



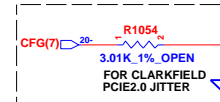
PCI-Express Configuration Select	
CFG0	1:Single PEG 0:Bifurcation enabled



CFG3 - PCI-Express Static Lane Reversal	
CFG3	1:Normal Operation 0:Lane Numbers Reversed 15 -> 0, 14 -> 1, ...



CFG4 - Display Port Presence	
CFG4	1:Disabled; No Physical Display Port attached to Embedded Display Port 0: Enabled; An external Display Port device is connected to the Embedded Display Port



CFG7 - Reserved : Temporarily used for early Clarksfield samples
Clarksfield (Only for early samples pre-ES1)
Connect to GND with 3.01K Ohm 5% Resistor

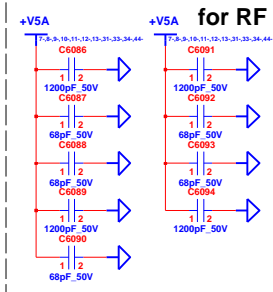
INVENTEC

TITLE MURRAY CPU-6			
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SHEET 20		OF 48	

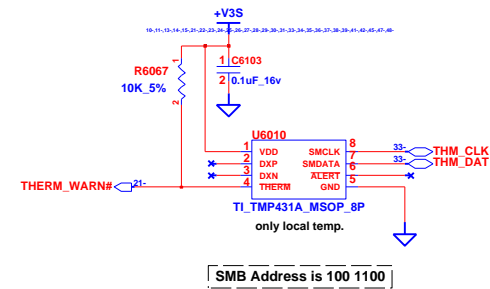
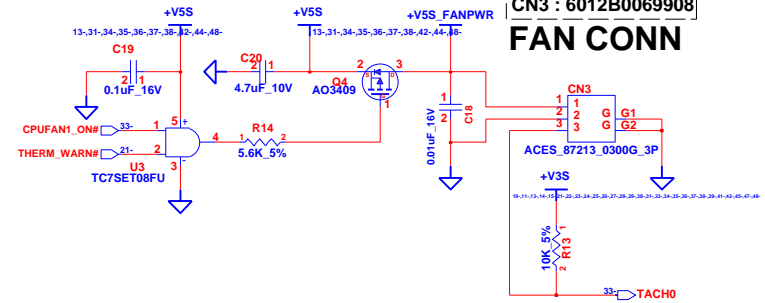
CHANGE by Chou, Leo 1-Mar-2010

8

for RF



*BOM
CN3 : 6012B0069908
FAN CONN



INVENTEC

TITLE MURRAY Thermal, Fan & XDP		
SIZE A3	CODE CS	DOC NUMBER 1310A23512-0-MTR
SHEET 21		OF 48
REV A03		

CHANGE by *Chou, Leo* 1-Mar-2010

1

2

3

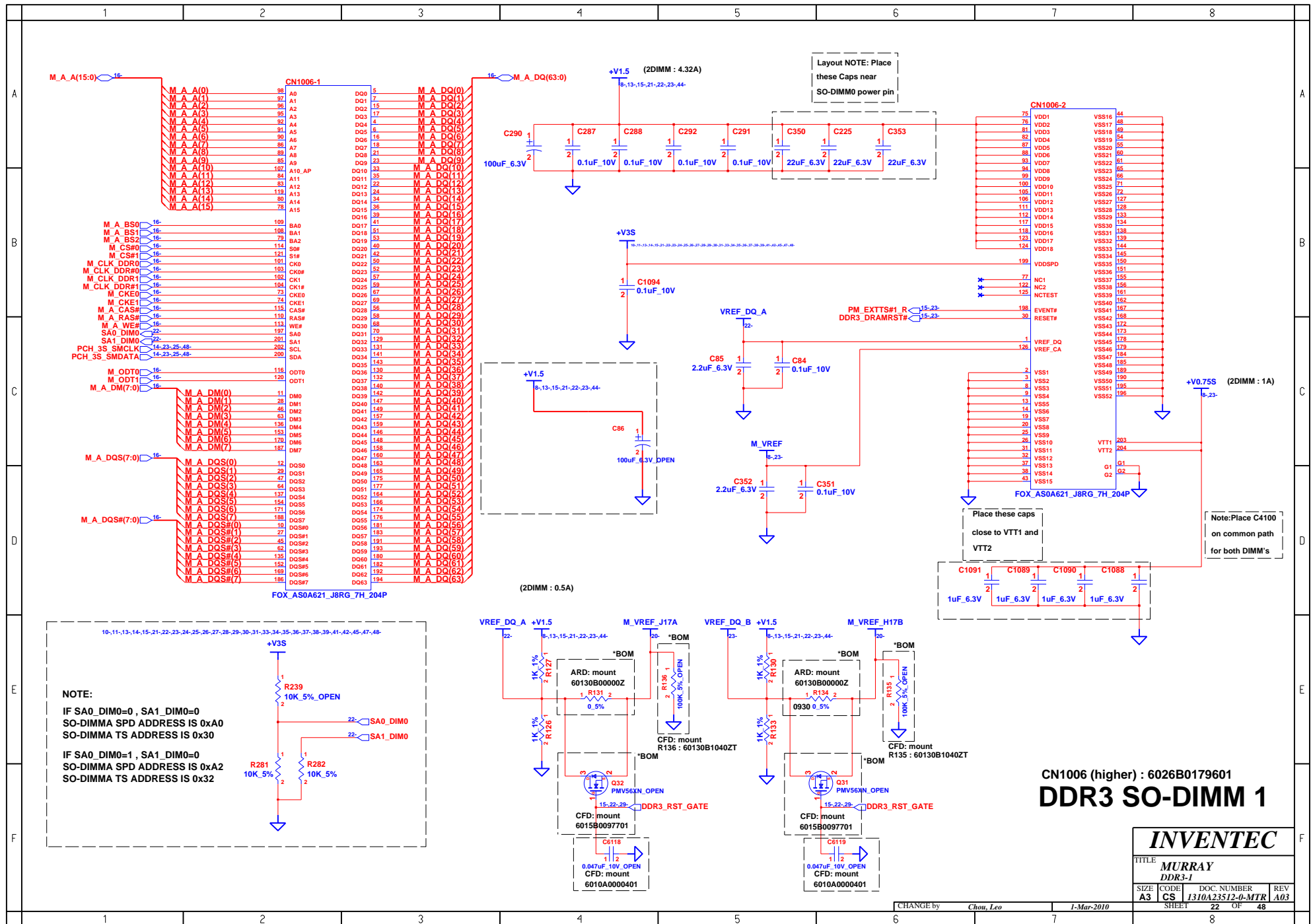
4

5

6

7

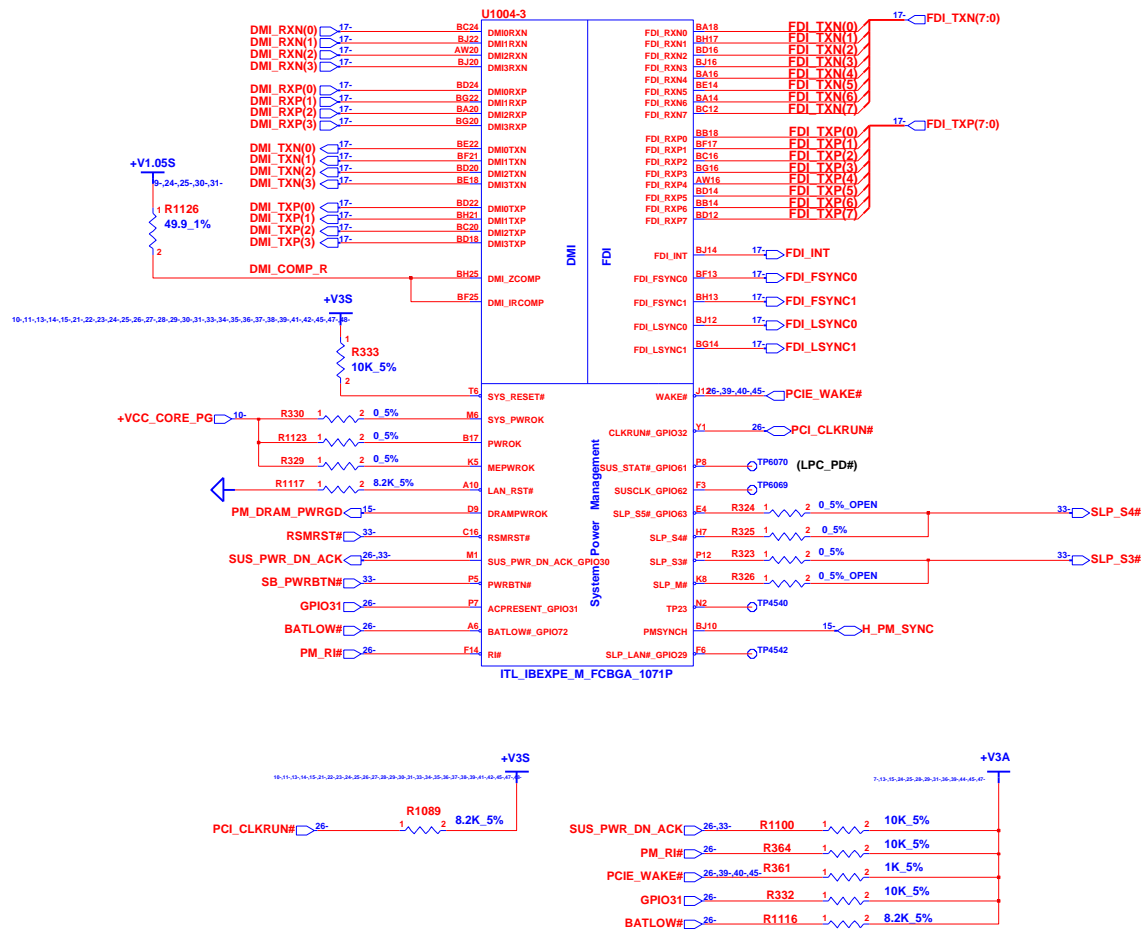
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CN1005 (lower) : 6026B0121102
***BOM**

TITLE *MURRAY*
DDR3-2

SIZE A3	CODE CS	DOC. NUMBER <i>1310A23512-0-MTR</i>	REV A03
SHEET		23	OF 48



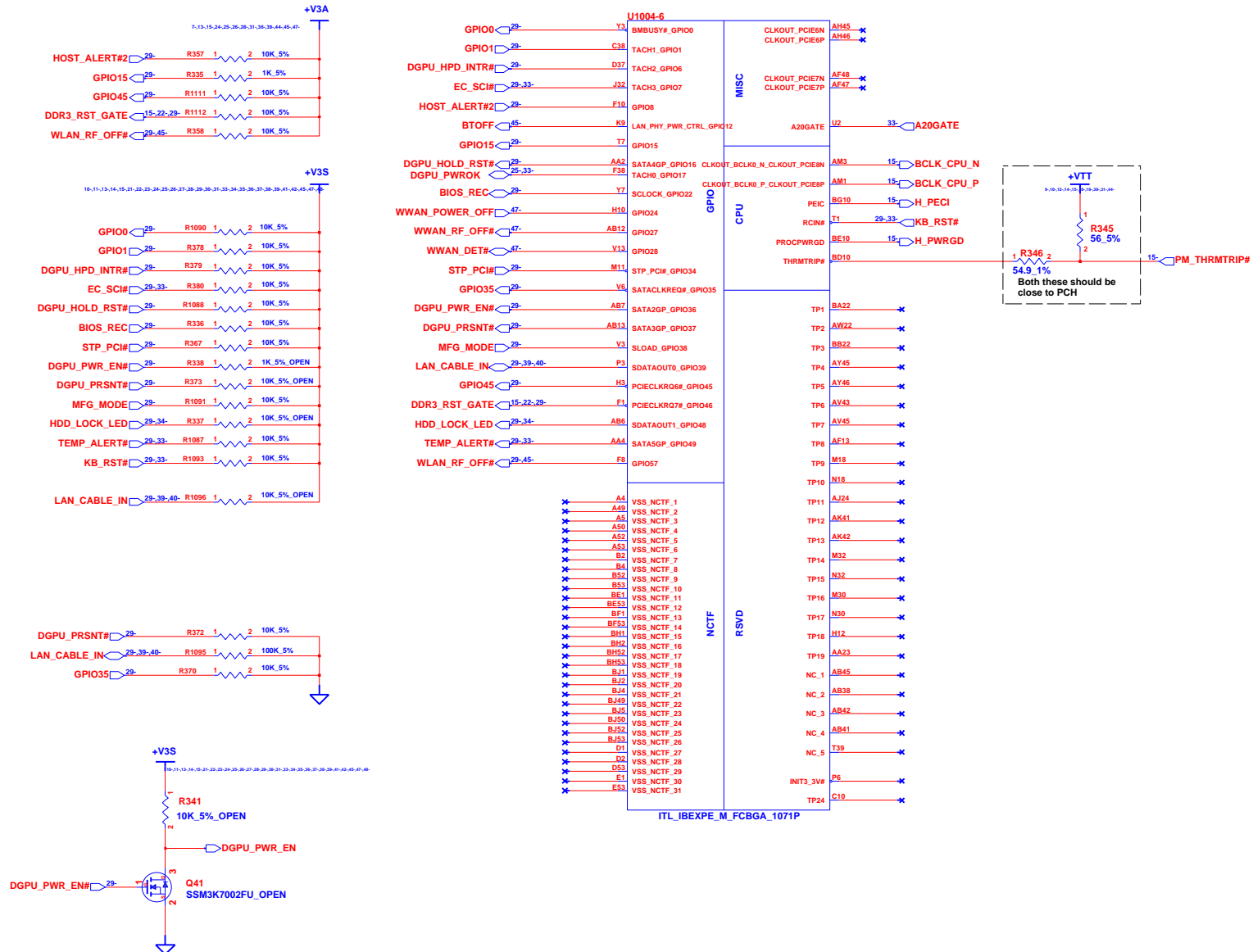
INVENTEC

TITLE
MURRAY
PCH-3

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A23512-0-MTR	A03

CHANGE by Chou, Leo 1-Mar-2010

SHEET 26 OF 48

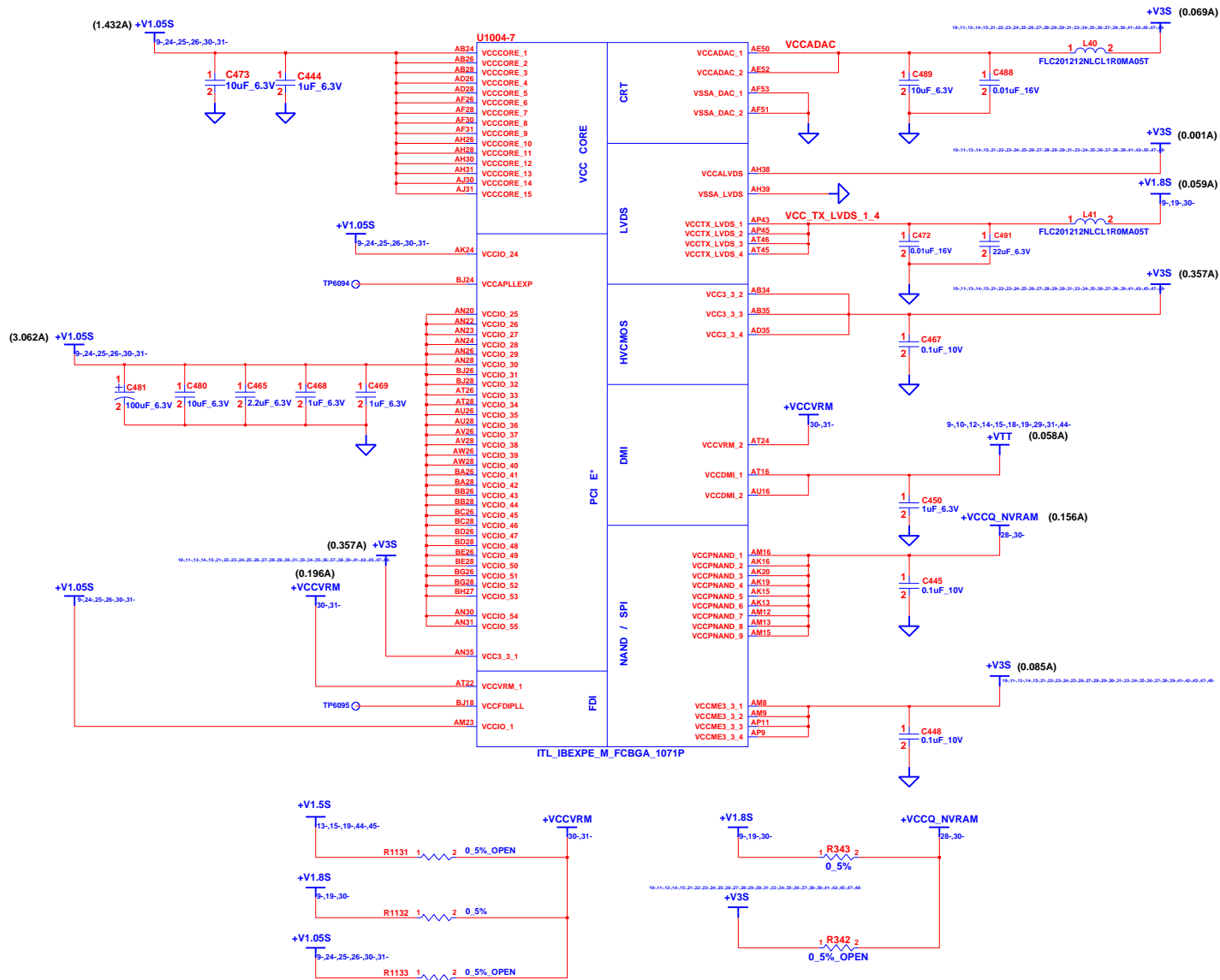


INVENTEC

TITLE			
MURRAY			
PCH-6			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A23512-0-MTR	A03
SHEET		29	OF 48

CHANGE by Chou, Leo 1-Mar-2010

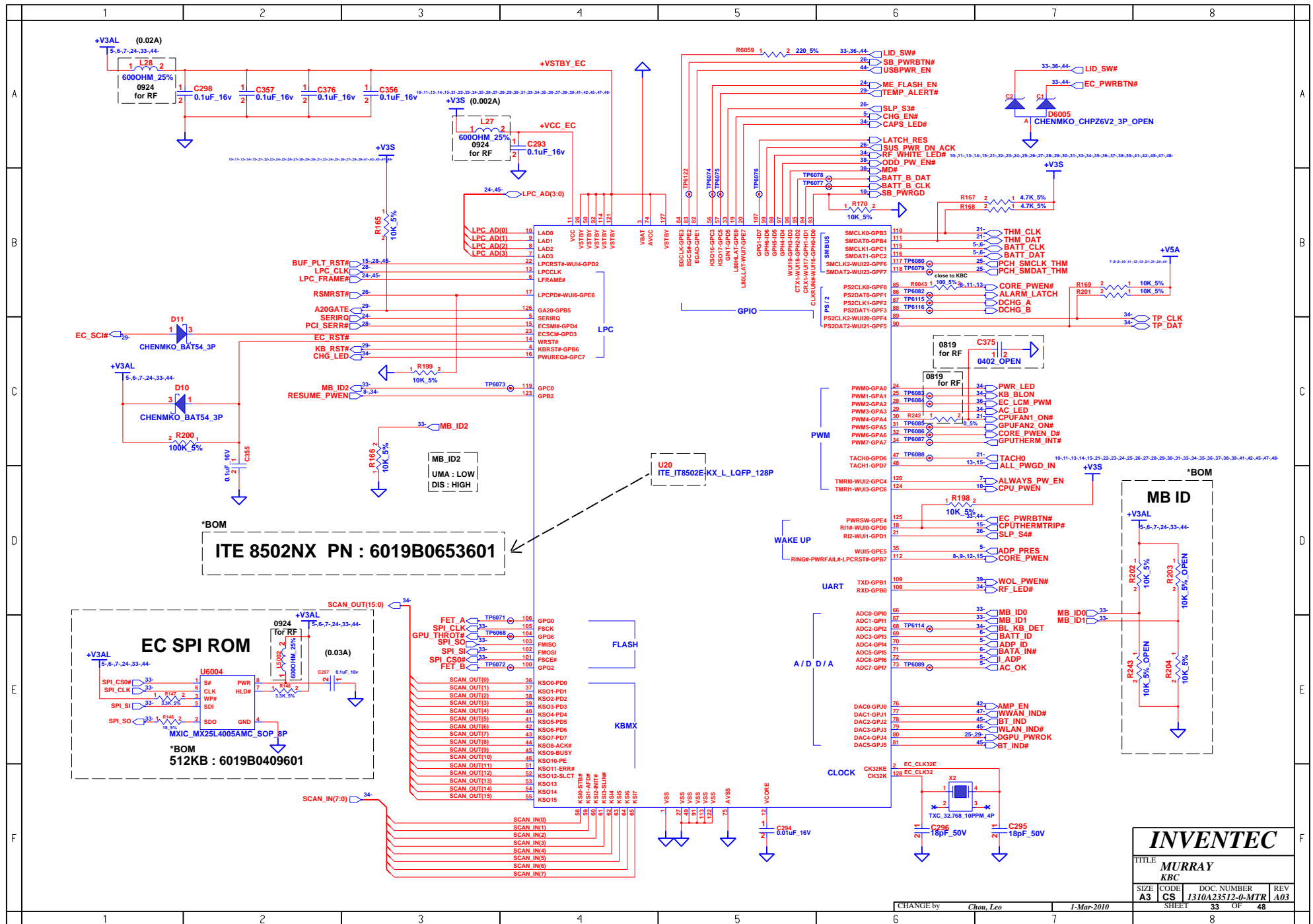
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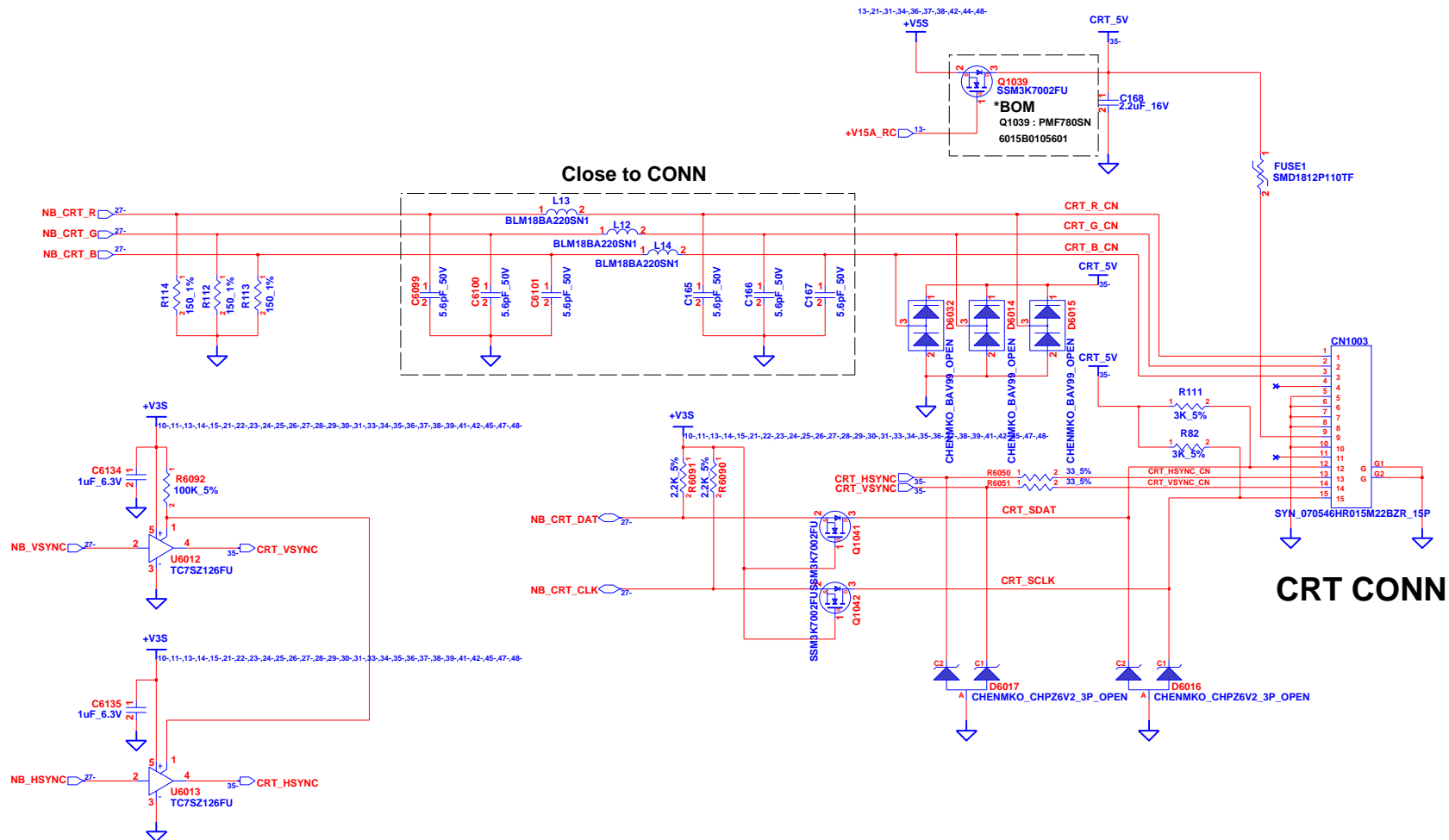


INVENTEC

TITLE MURRAY PCH-7			
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SHEET		30	OF 48

CHANGE by Chou, Leo 1-Mar-2010

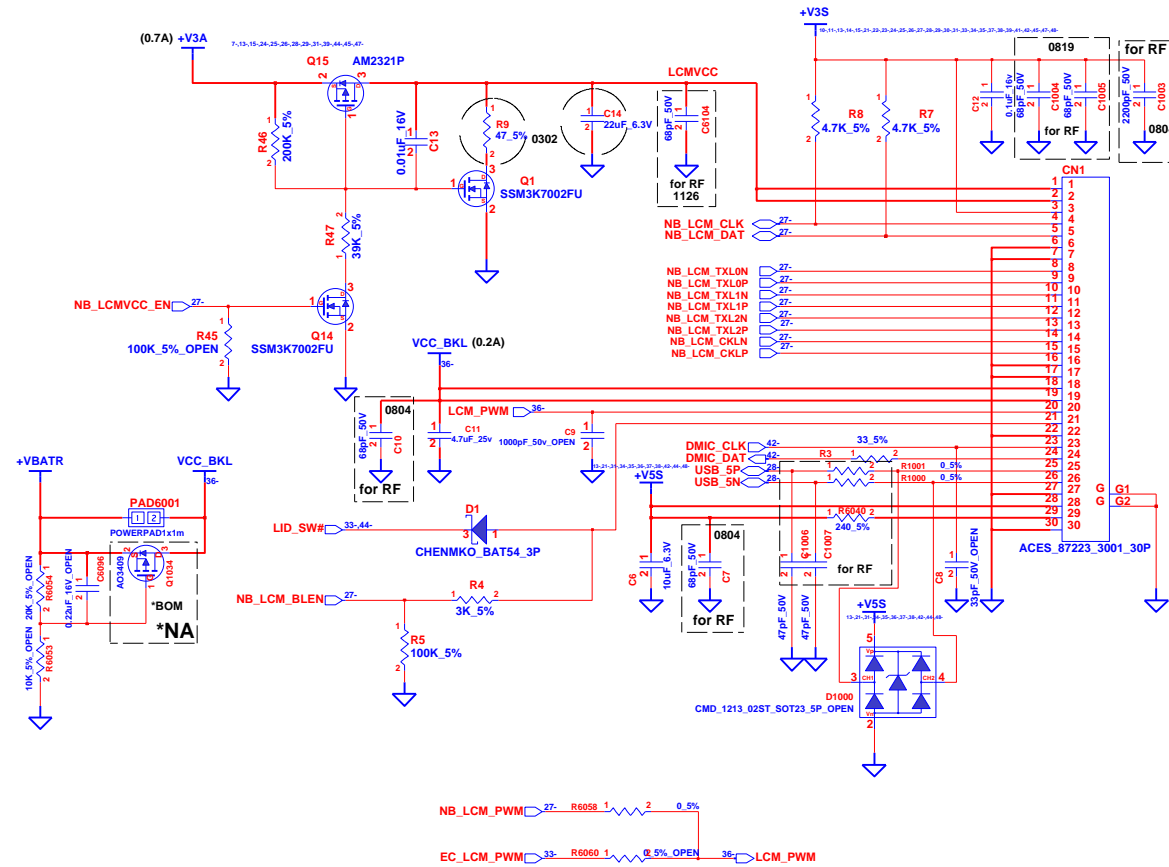




LCM CONN (30pin)

(6012B0348301)

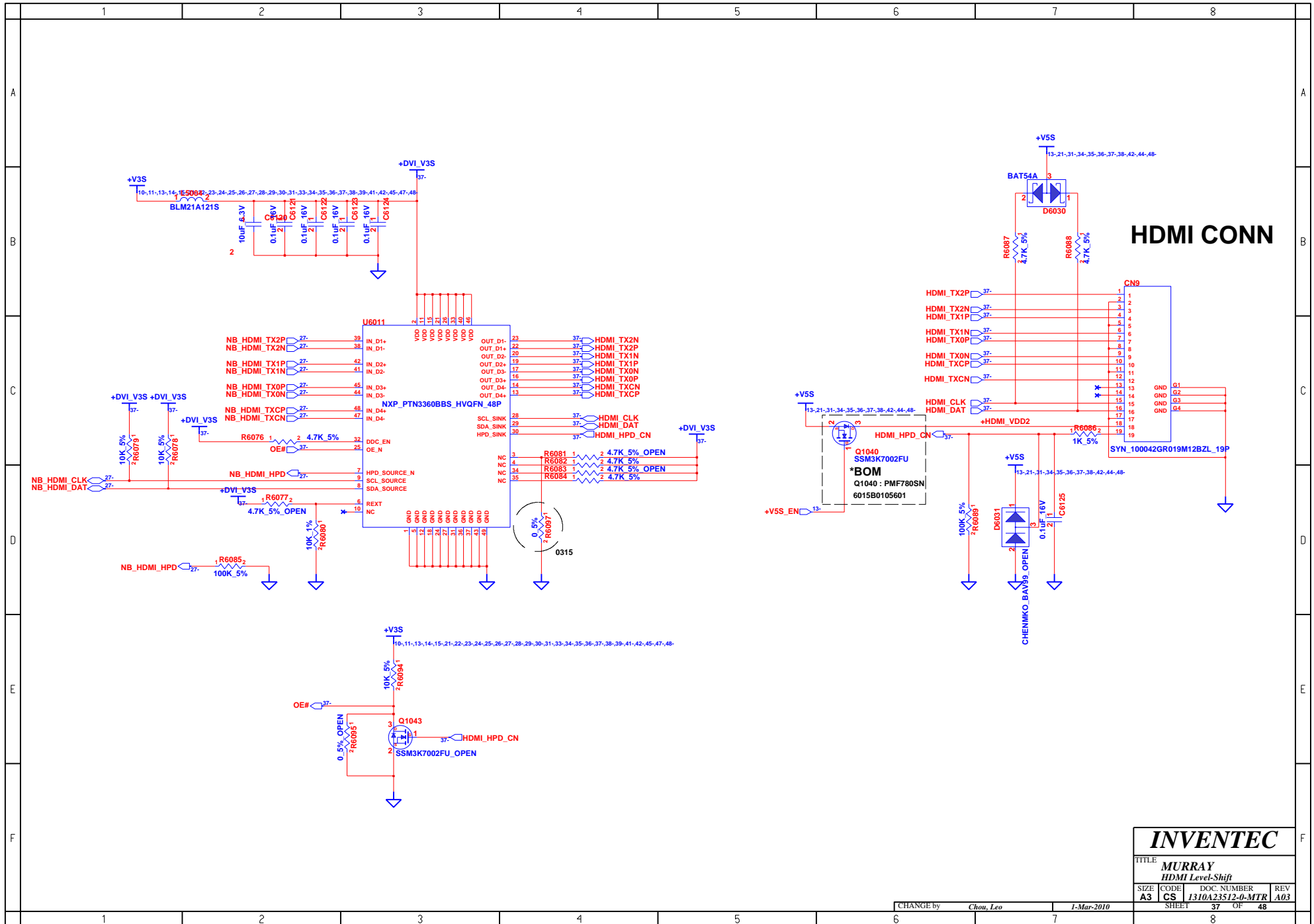
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INVENTEC

TITLE			
MURRAY			
LCM			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A23512-0-MTR	A03
SHEET		36	OF 48

CHANGE by Chou, Leo 1-Mar-2010

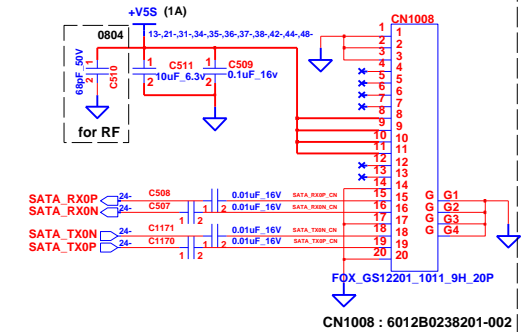


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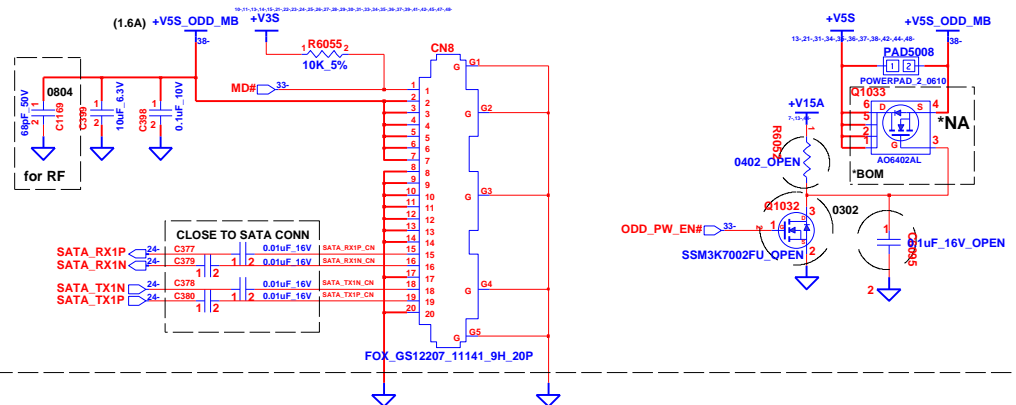
TITLE			
MURRAY			
HDMI Level-Shift			
SIZE	CODE	DOC NUMBER	REV
A3	CS	1310A23512-0-MTR	A03
SHEET		37	OF 48

CHANGE by Chou, Leo 1-Mar-2010

SATA HDD FPC CONN on MB



SATA ODD FPC CONN on MB



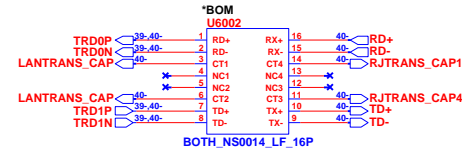
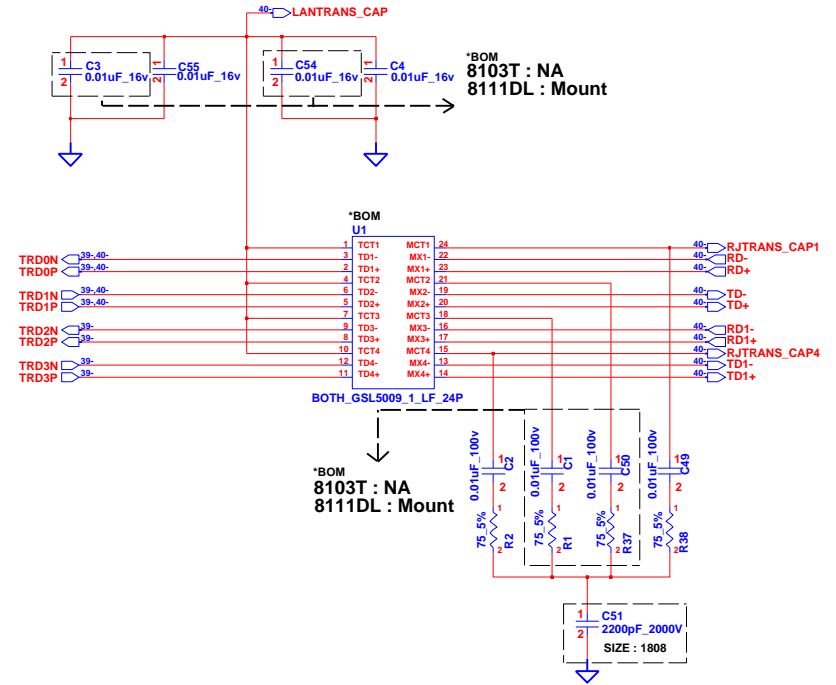
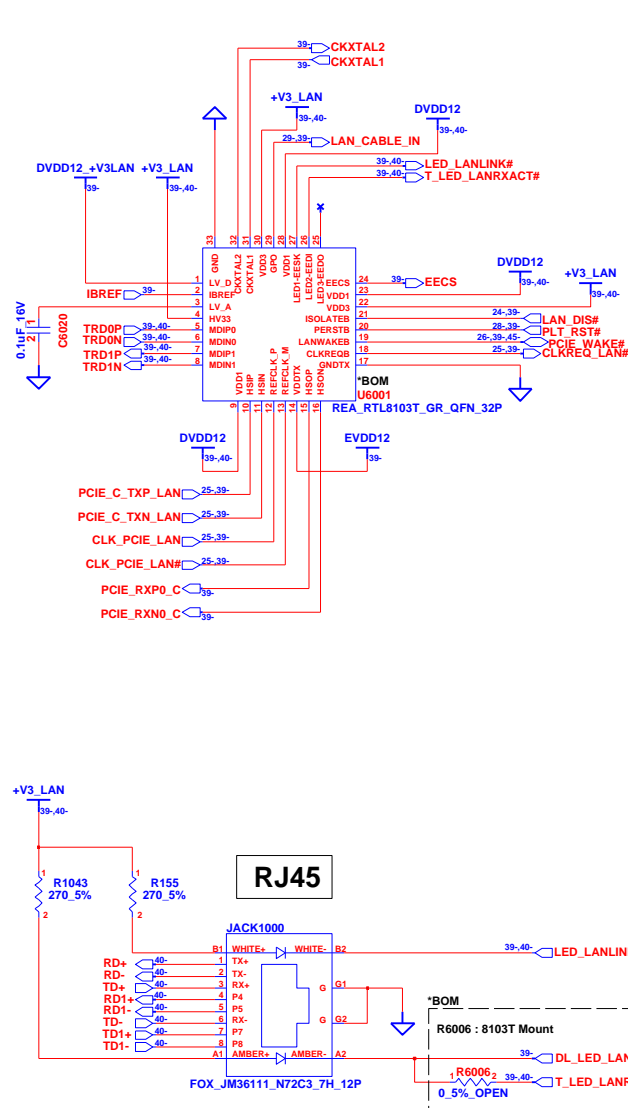
INVENTEC

TITLE			
MURRAY			
SATA HDD & ODD			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A23512-0-MTR	A03

CHANGE by Chou, Leo 1-Mar-2010

SHEET 38 OF 48

LAYOUT NOTE : Place termination resistors and caps as close to LAN controller as possible

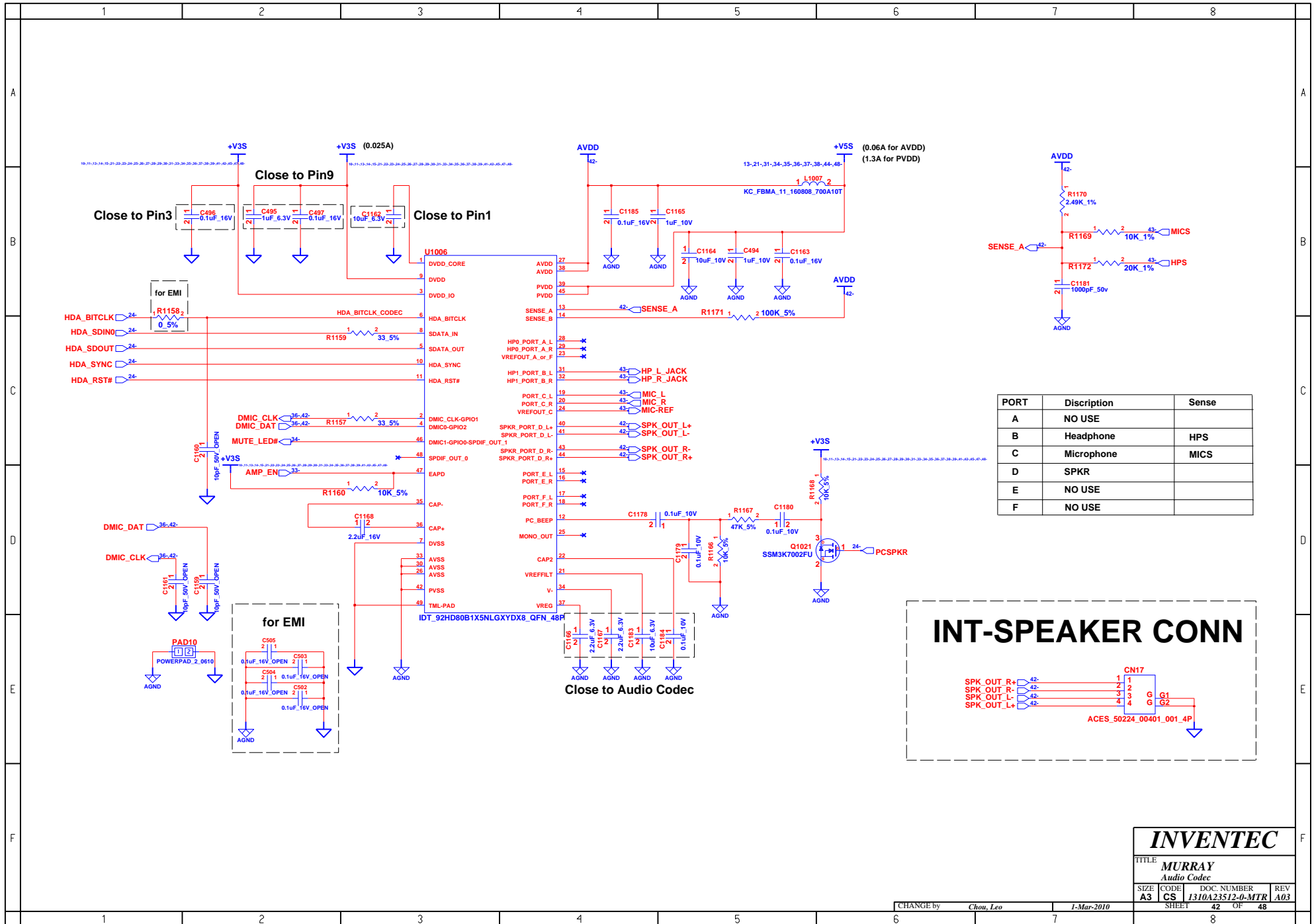


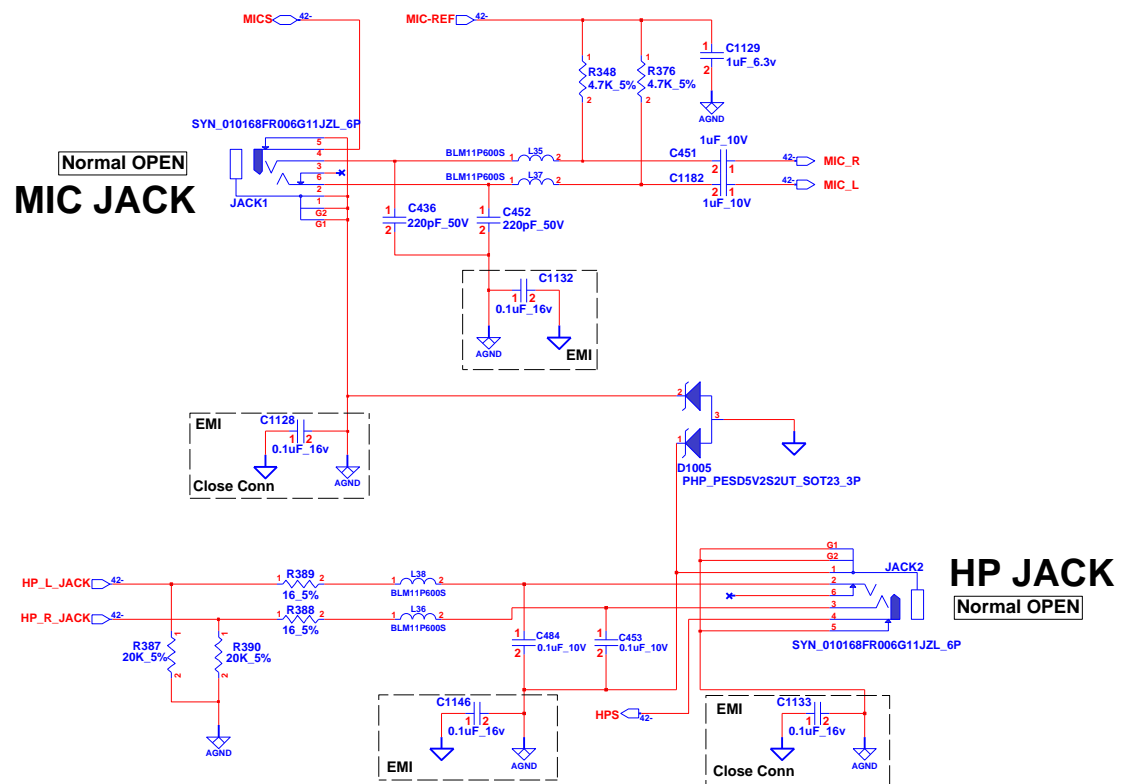
INVENTEC				
TITLE MURRAY RJ-45				
SIZE A3	CODE CS	DOC. NUMBER 1310A23512-0-MTR		REV A03
SHEET 40		OF 48		

CHANGE by Chou, Leo 1-Mar-2010

[illegible]

TITLE			
MURRAY <i>Card Reader</i>			
SIZE	CODE	DOC. NUMBER	
A3	CS	1310A23512-0-MTR	
SHEET		41	OF 48



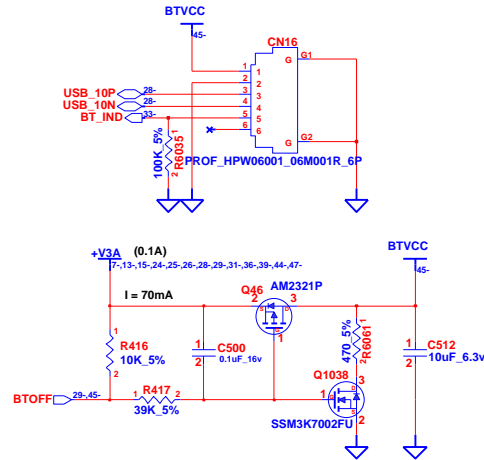


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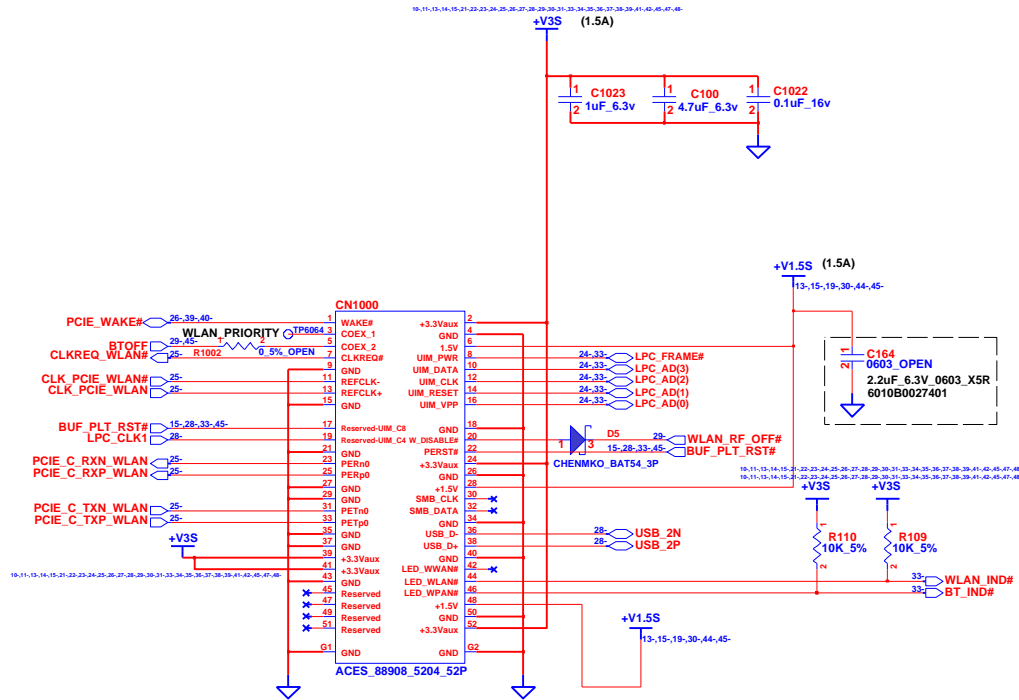
TITLE			
MURRAY			
HP JACK & MIC JACK			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A23512-0-MTR	A03
SHEET		43	OF 48

CHANGE by Chou, Leo 1-Mar-2010

BLUETOOTH CONN



WLAN CONN (MINICARD)



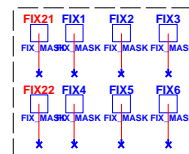
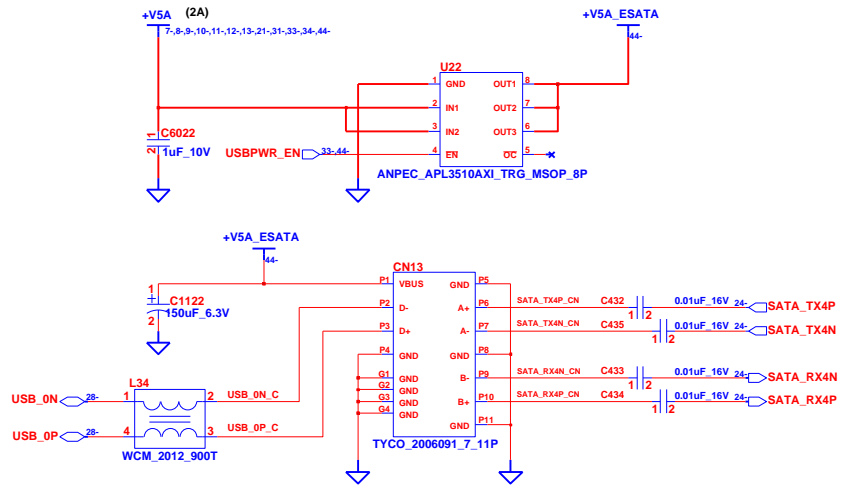
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CN1000 : 6026B0184301

INVENTEC

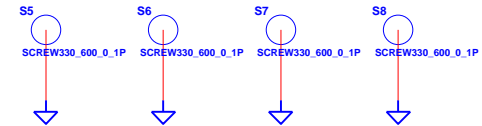
TITLE MURRAY WLAN, BT & WebCAM			
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SHEET 45		OF 48	

CHANGE by *Chou, Leo* 1-Mar-2010

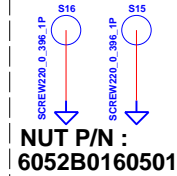
ESATA CONN (without Re-Driver chip)



CPU's screws



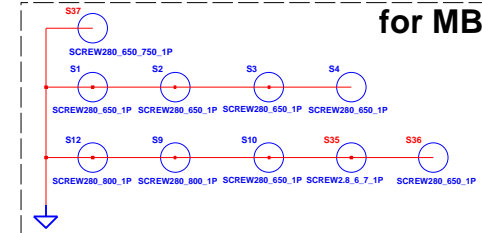
for PCH



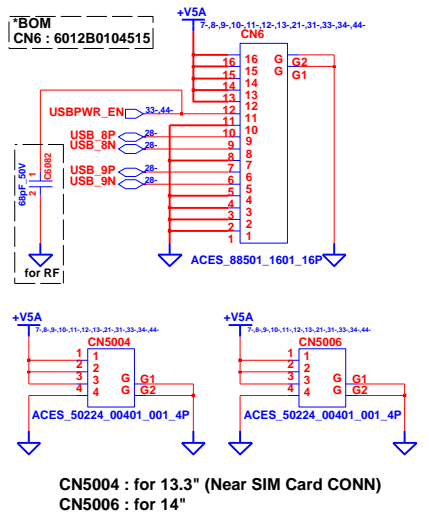
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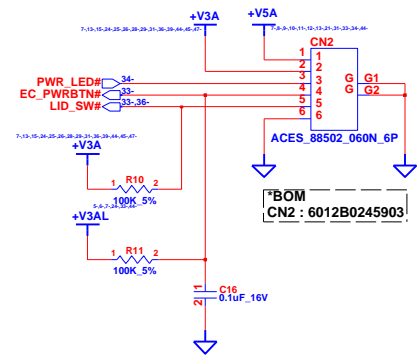
for MB



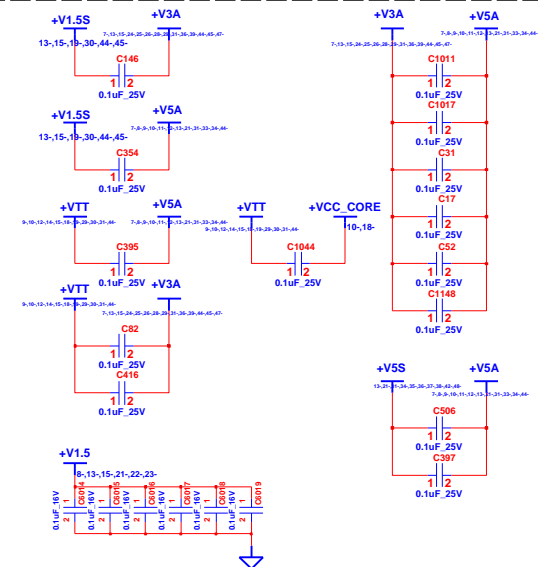
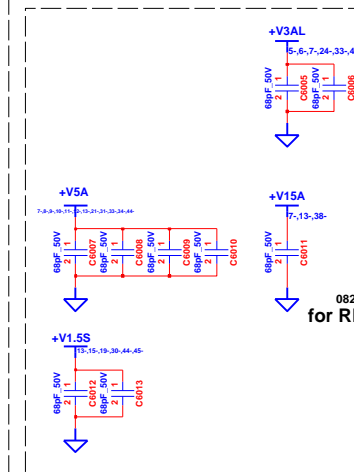
USB BOARD Cable on MB



PBN Cable CN on MB



EMI CAPS

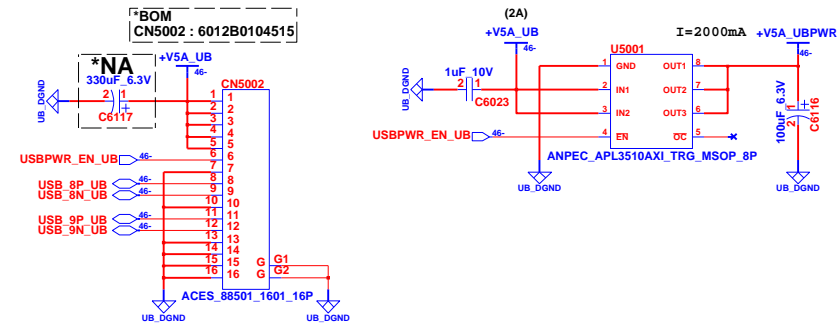


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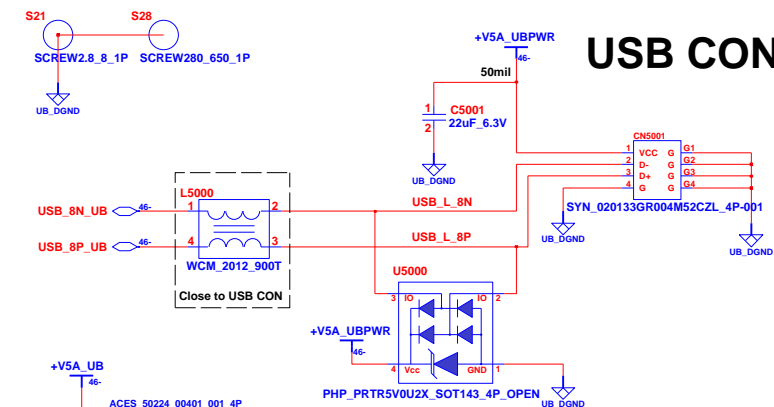
TITLE MURRAY ESATA, SCREW & LID			
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SHEET 44		OF 48	

CHANGE by Chou, Leo 1-Mar-2010

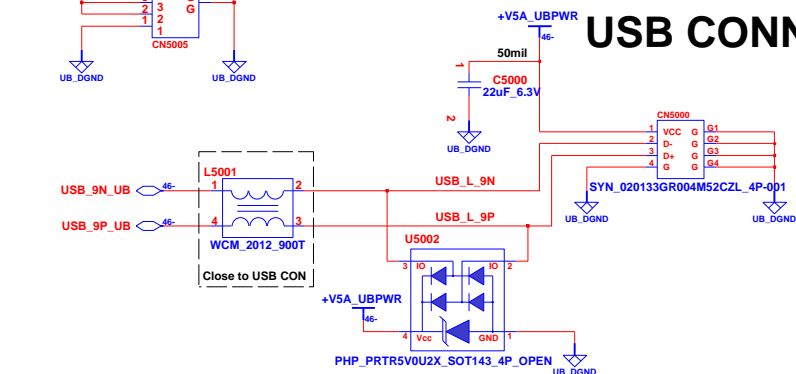
USB BOARD



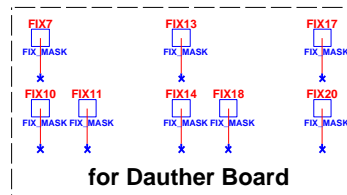
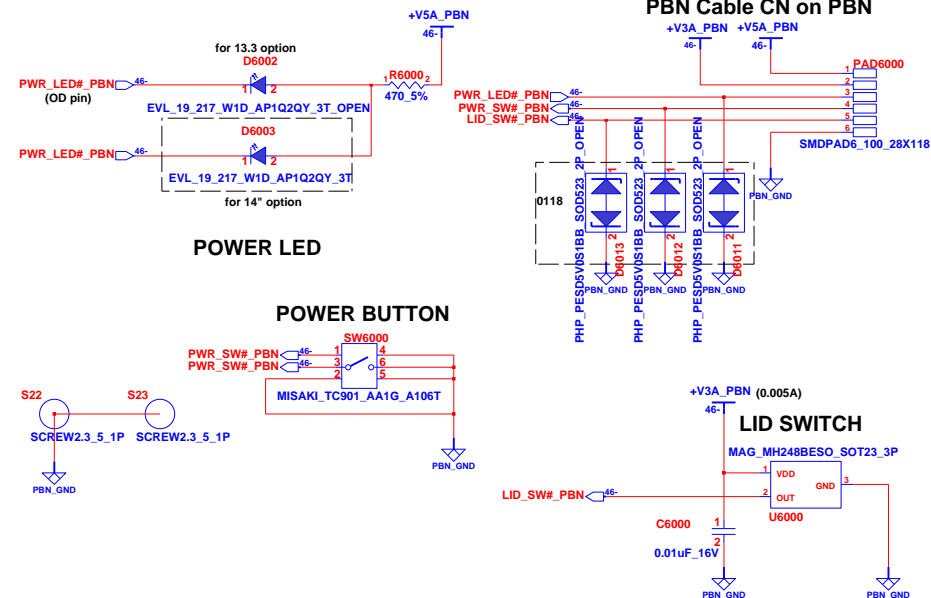
USB CONN01



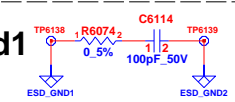
USB CONN02



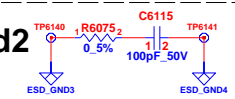
Power Button Board



EMC Board1



EMC Board2



INVENTEC

TITLE MURRAY			
USB, PowerButton (DB)			
SIZE A3	CODE CS	DOC NUMBER 1310A23512-0-MTR	REV A03
SHEET 46		OF 48	

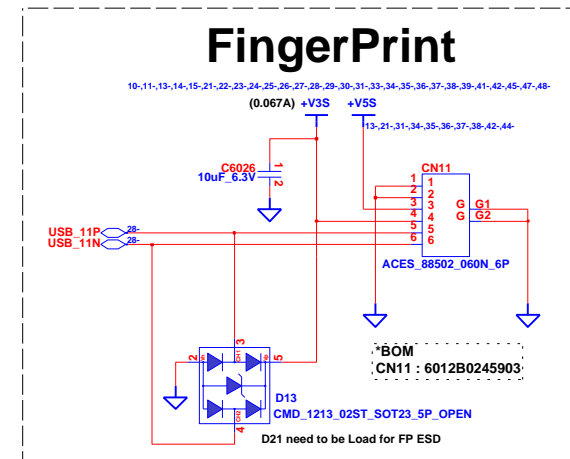
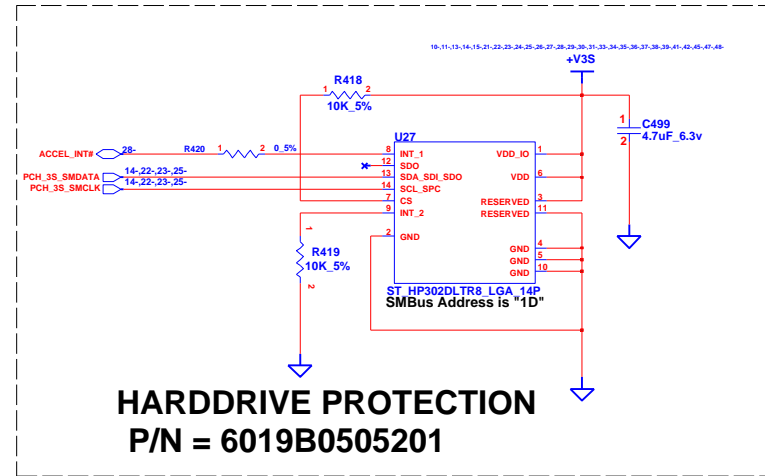
CHANGE by Chou, Leo 1-Mar-2010

TITLE			
MURRAY WWAN(Option)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A23512-0-MTR	A03
SHEET		47	OF 48

CHANGE by	<i>Chou, Leo</i>	<i>1-Mar-2010</i>
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CS	1310A23512-0-M1R	A03
SHEET	47	OF 48

OPTION PART

**INVENTEC**

TITLE
MURRAY
Touchscreen, FP & HD LOCK(Option)

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A23512-0-MTR	A03

SHEET 48 OF 48

CHANGE by Chou, Leo 1-Mar-2010