

[illegible]

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

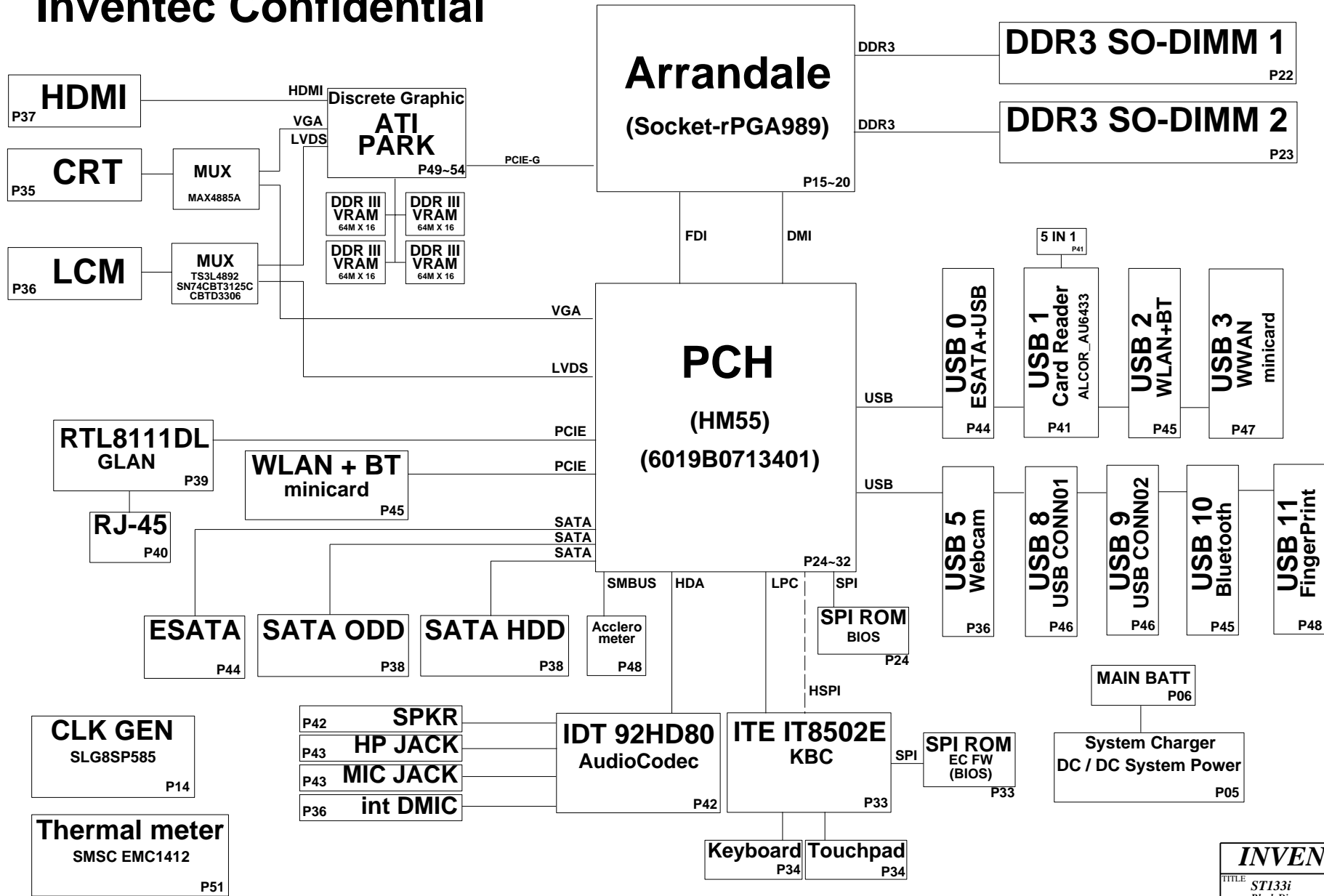
31. PCH-8
32. PCH-9
33. KBC
34. Keyboard & TouchPad
35. CRT CONN
36. LCM CONN
37. HDMI CONN
38. SATA HDD & ODD
39. LAN
40. RJ-45
41. Card Reader
42. Audio Codec
43. HP JACK & MIC JACK
44. ESATA, SCREW
45. WLAN & BlueTooth
46. USB, PowerButton(DB)
47. WWAN(Optional)
48. FP & HD LOCK(Optional)
49. PARK-S3 PCIE INTERFACE
50. PARK-S3 Display and GIPO INTERFACE
51. PARK-S3 CLK and DDC INTERFACE
52. PARK-S3 POWER INTERFACE
53. PARK-S3 DP Power and LVDS INTERFACE
54. PARK-S3 Memory INTERFACE
55. VRAM-1(DDR3)
56. VRAM-2(DDR3)

INVENTEC

TITLE <i>ST133i</i> <i>Index</i>			
SIZE A3	CODE CS	DOC. NUMBER <i>6050A2314301</i>	REV <i>X01</i>
SHEET		2	OF 56

CHANGE by *ST133ID* 18-Aug-2009

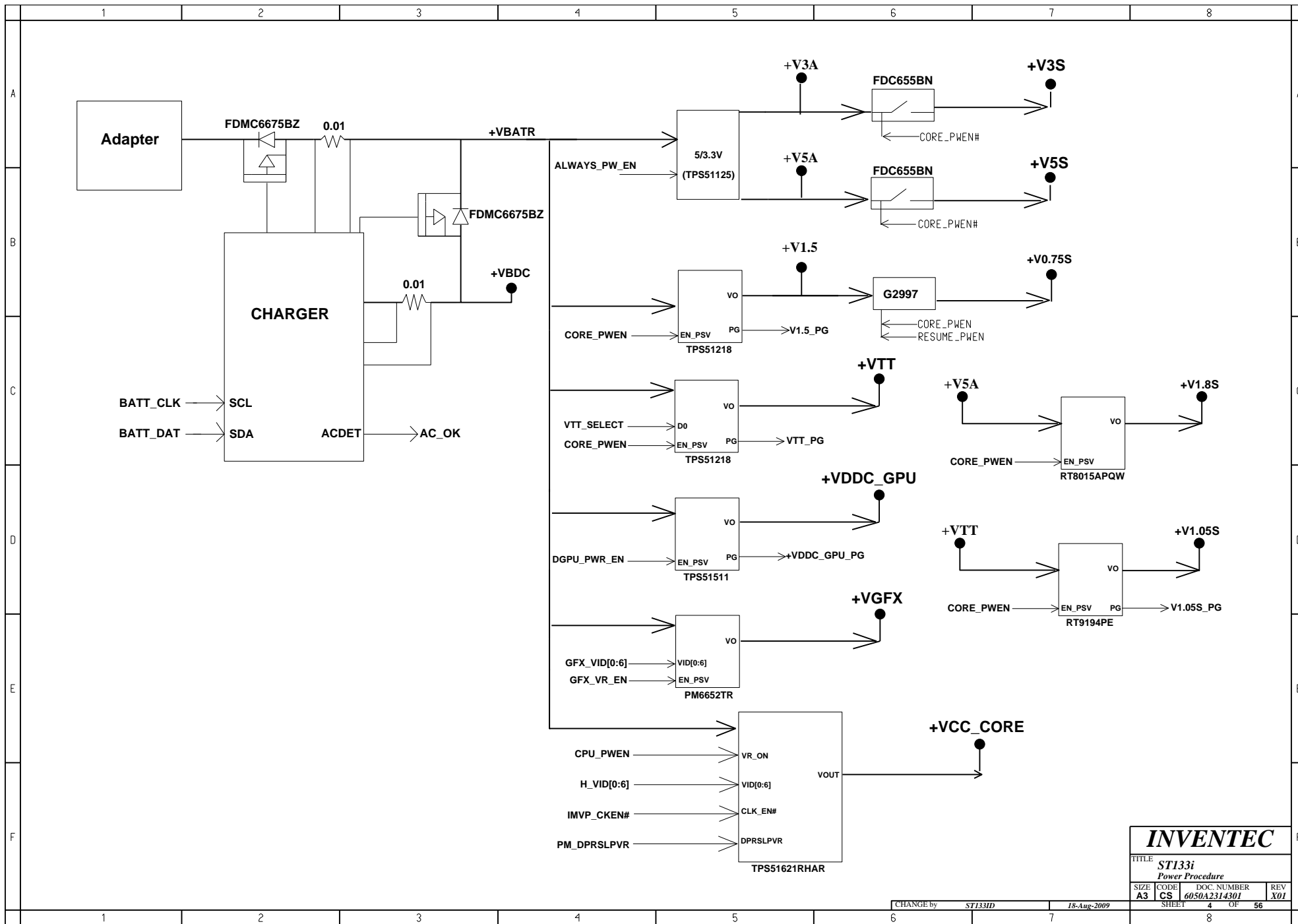
Inventec Confidential



INVENTEC

TITLE			
ST133i			
Block Diagram			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2314301	X01
SHEET		3	OF 56

CHANGE by ST133ID 21-Sep-2009

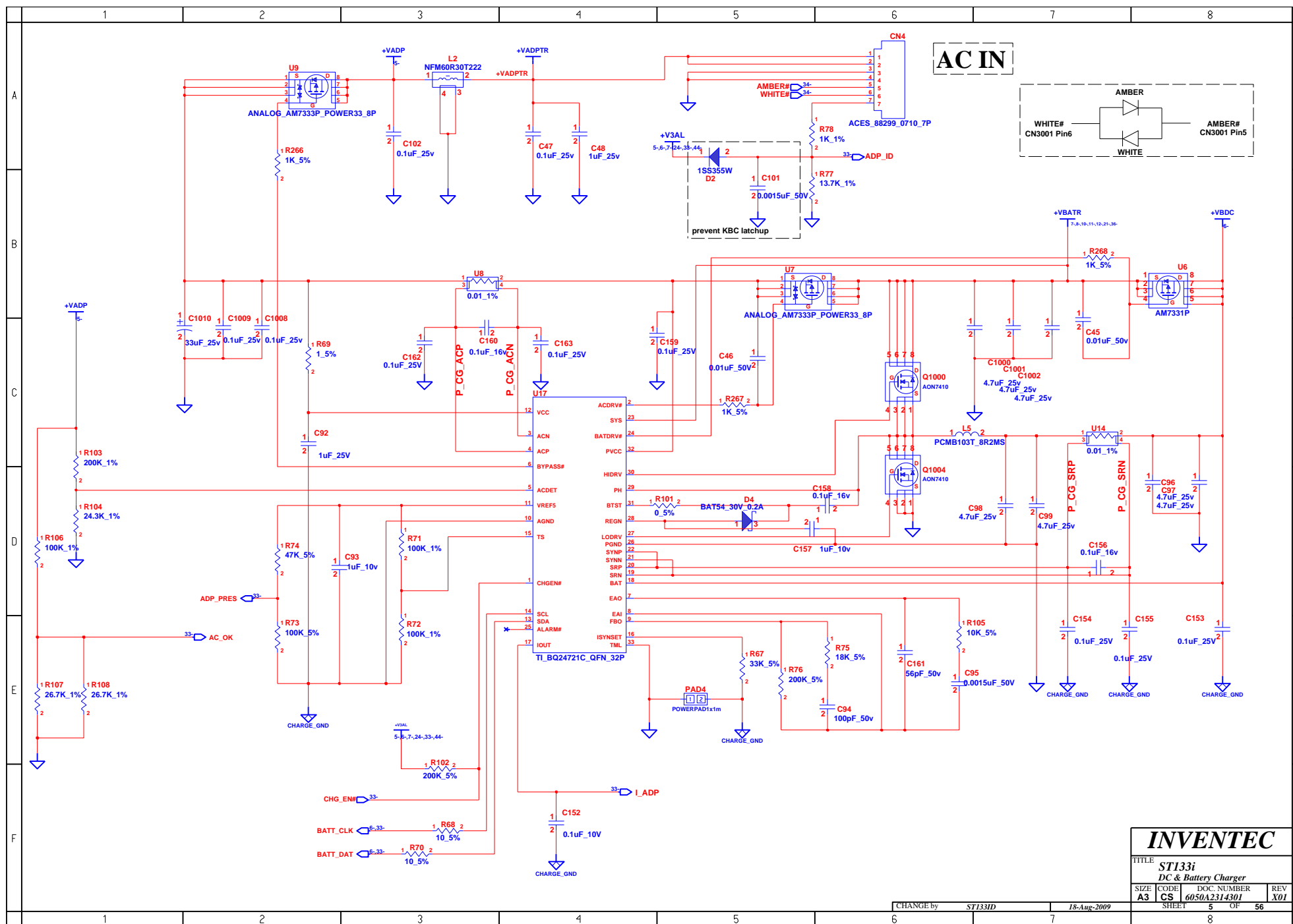


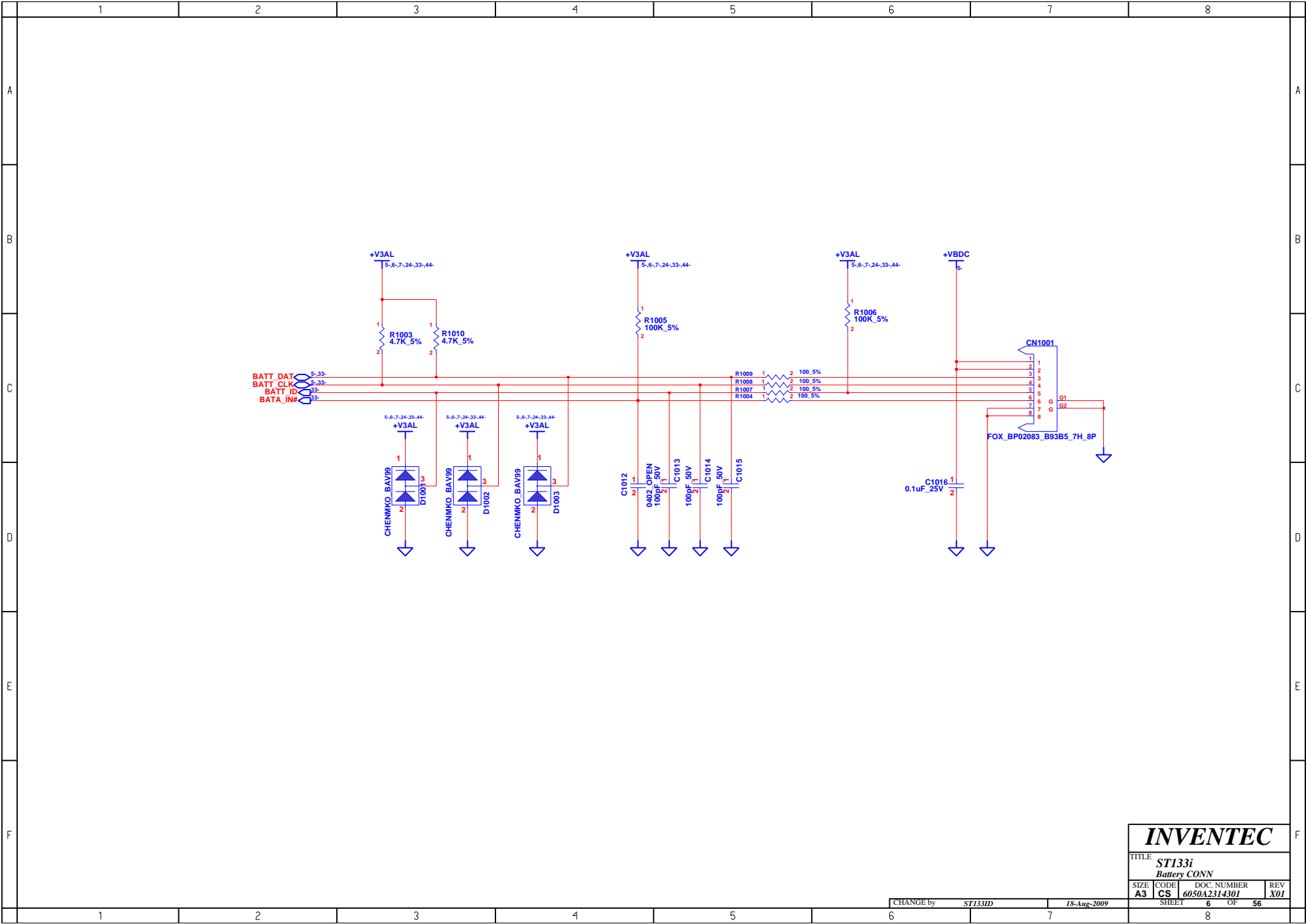
INVENTEC

TITLE **ST133i**
Power Procedure

SIZE A3	CODE CS	DOC. NUMBER 6050A2314301	REV X01
SHEET 4		OF 56	

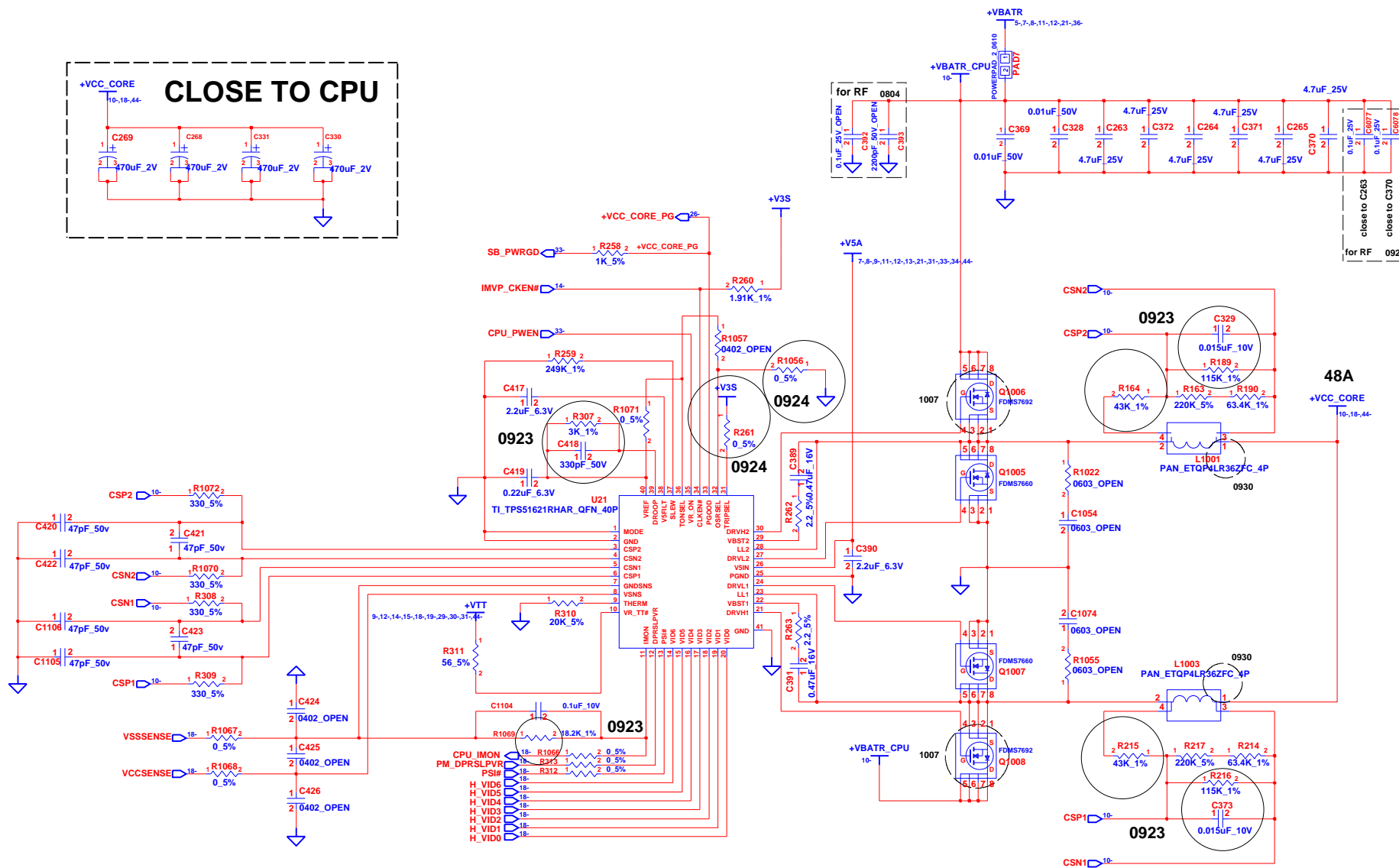
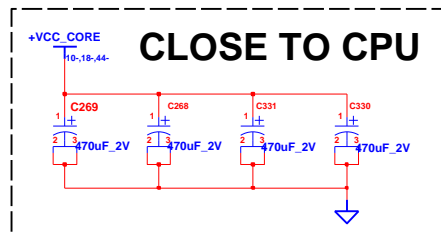
CHANGE by **ST133ID** 18-Aug-2009





INVENTEC

TITLE			
ST133i			
Battery CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2314301	X01



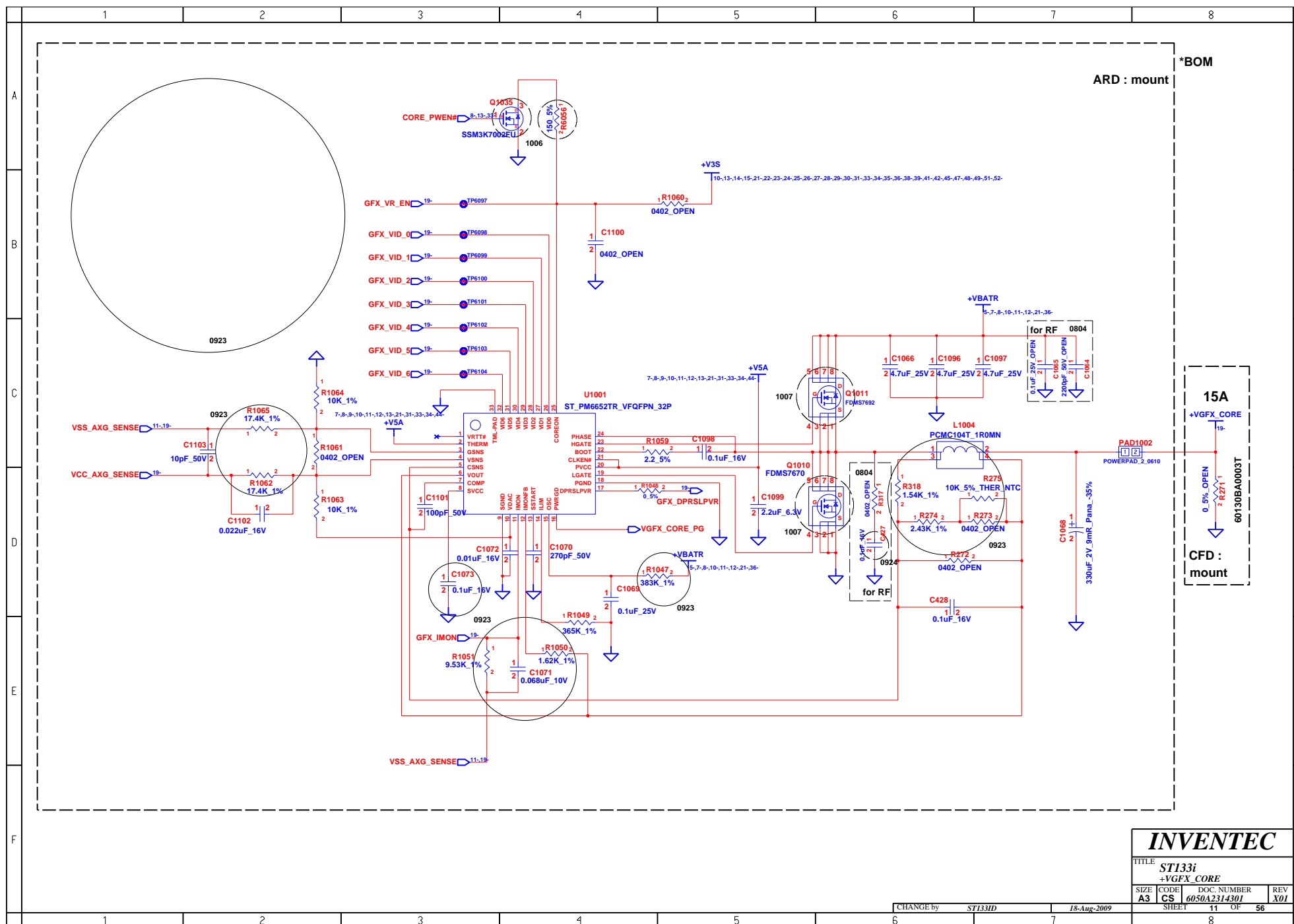
INVENTEC

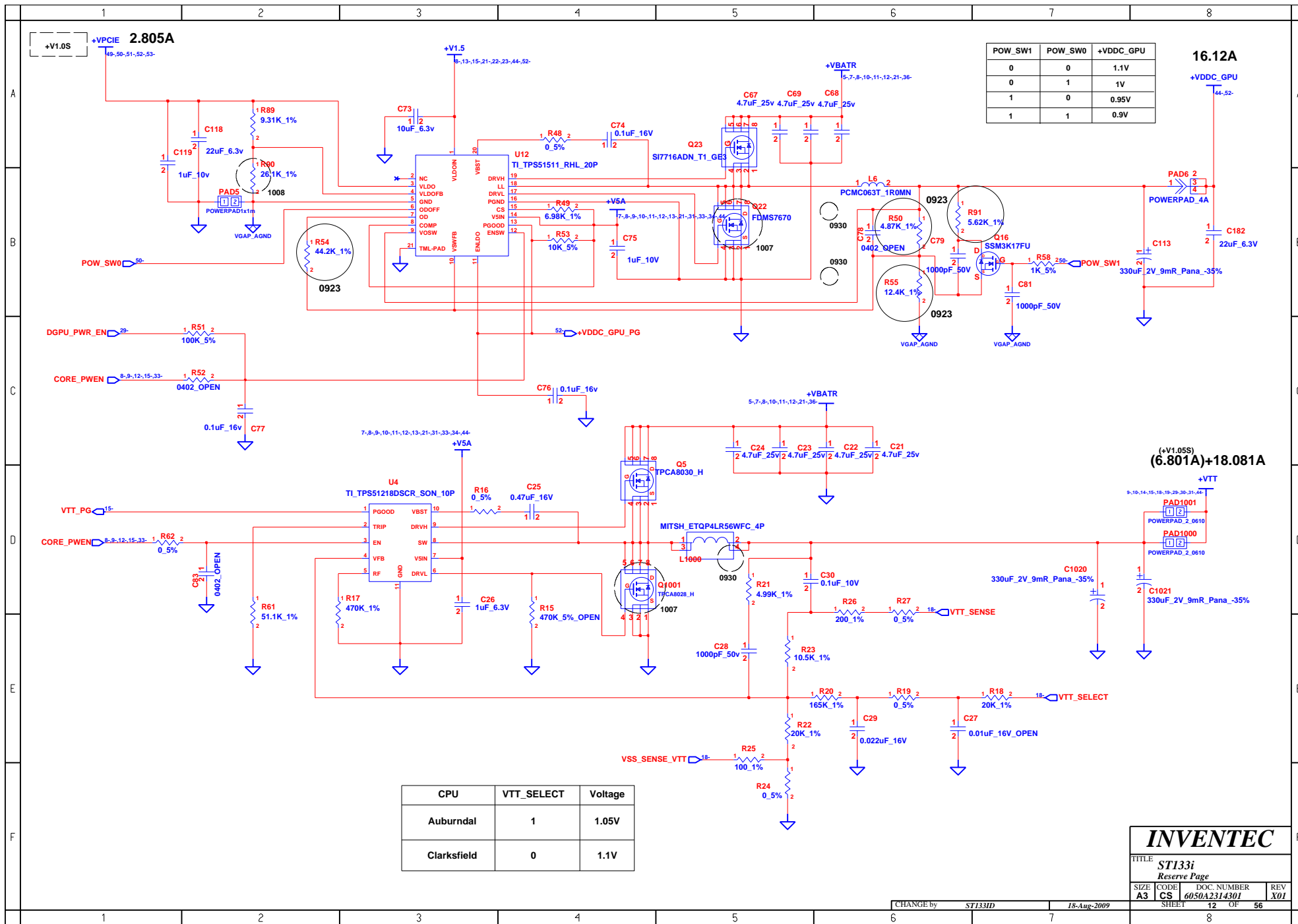
TITLE	<i>ST133i</i> <i>+VCC_CORE</i>
-------	---

SIZE A3	CODE CS	DOC. NUMBER 6050A2314301	REV X01
SHEET 10 OF 56			

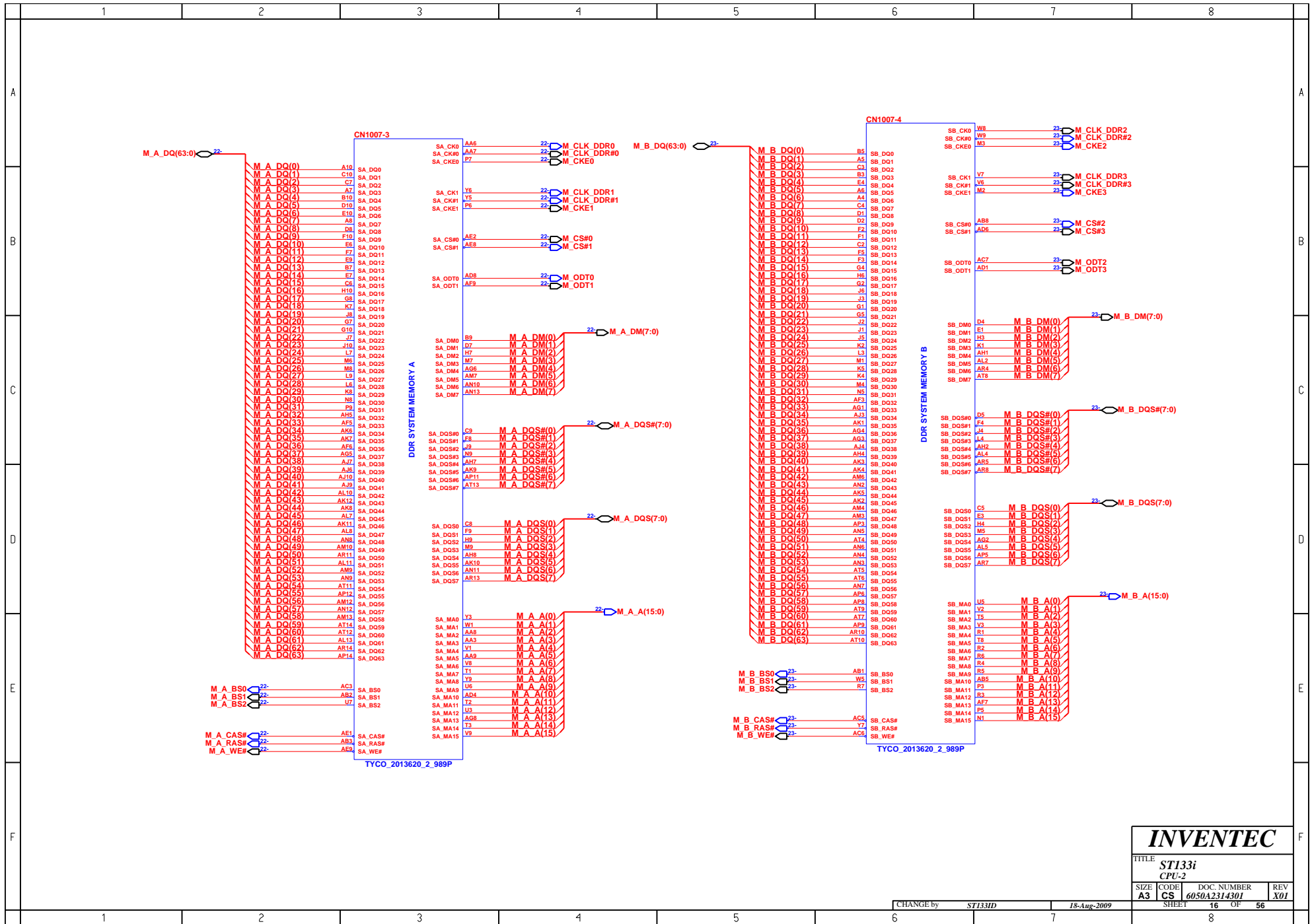
CHANGE by	ST133ID	18-Aug-2009
-----------	---------	-------------

SHEET 10 OF 50





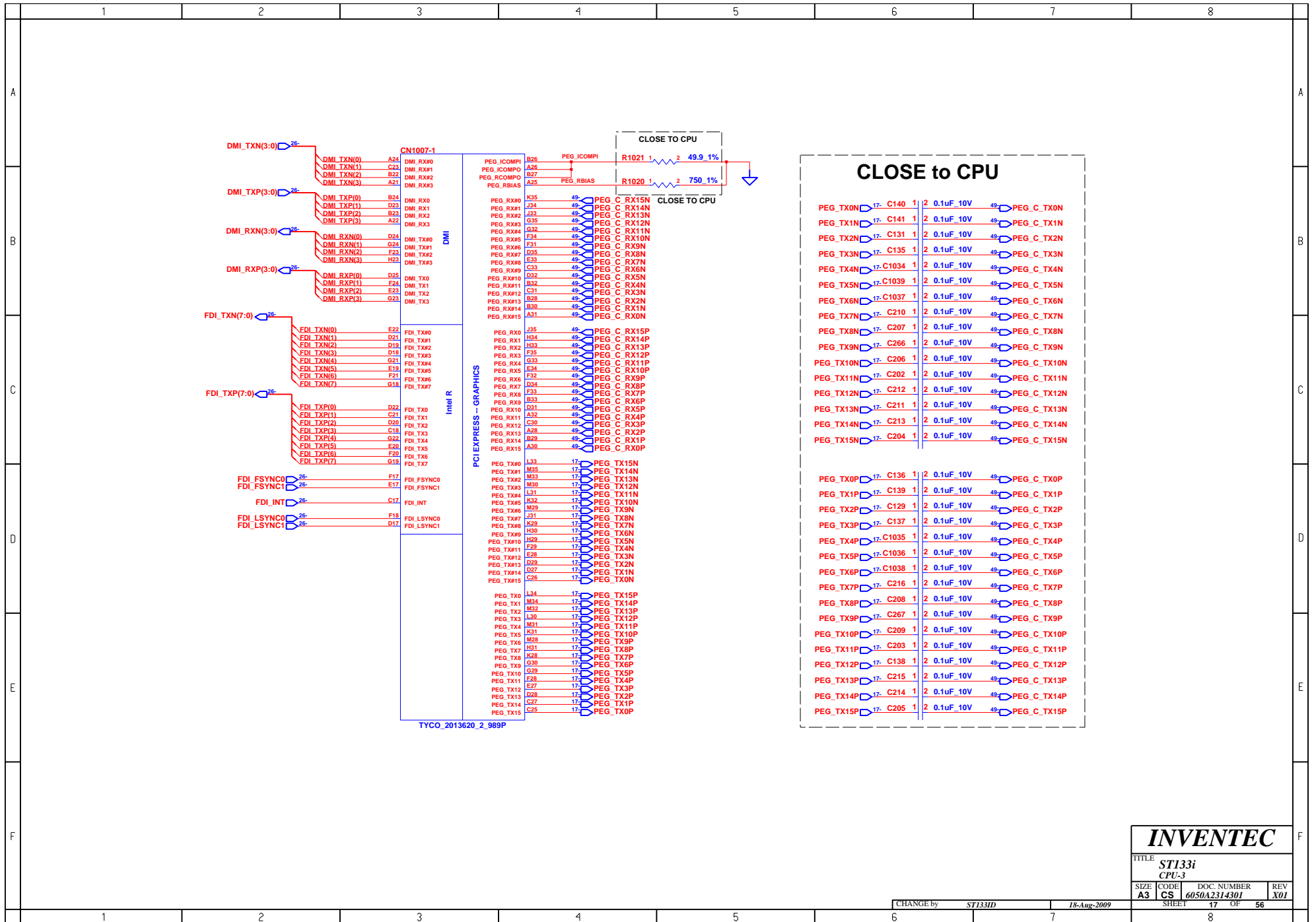
INVENTEC



INVENTEC

TITLE			
ST133i			
CPU-2			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2314301	X01
SHEET		16	OF 56

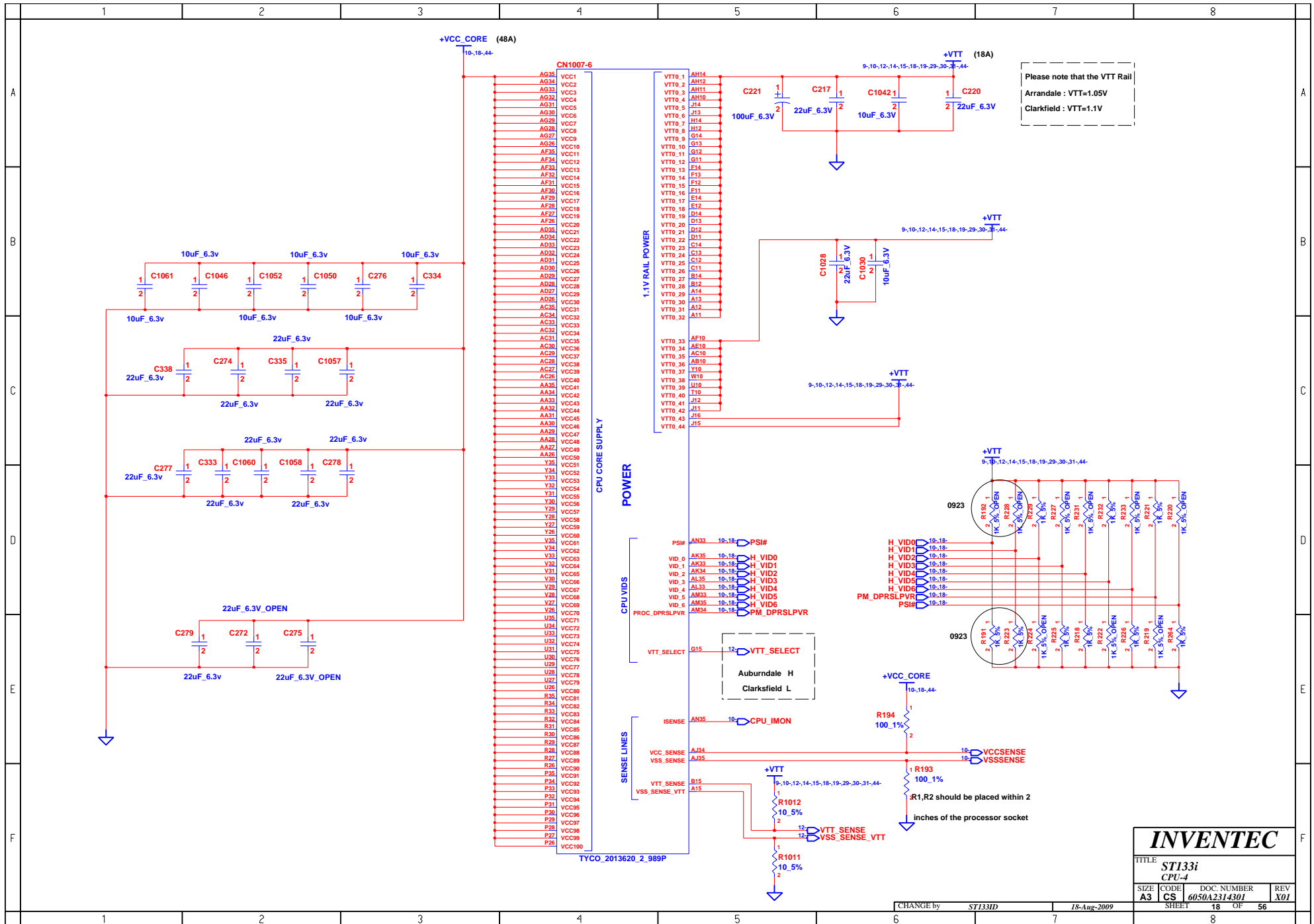
CHANGE by ST133ID 18-Aug-2009

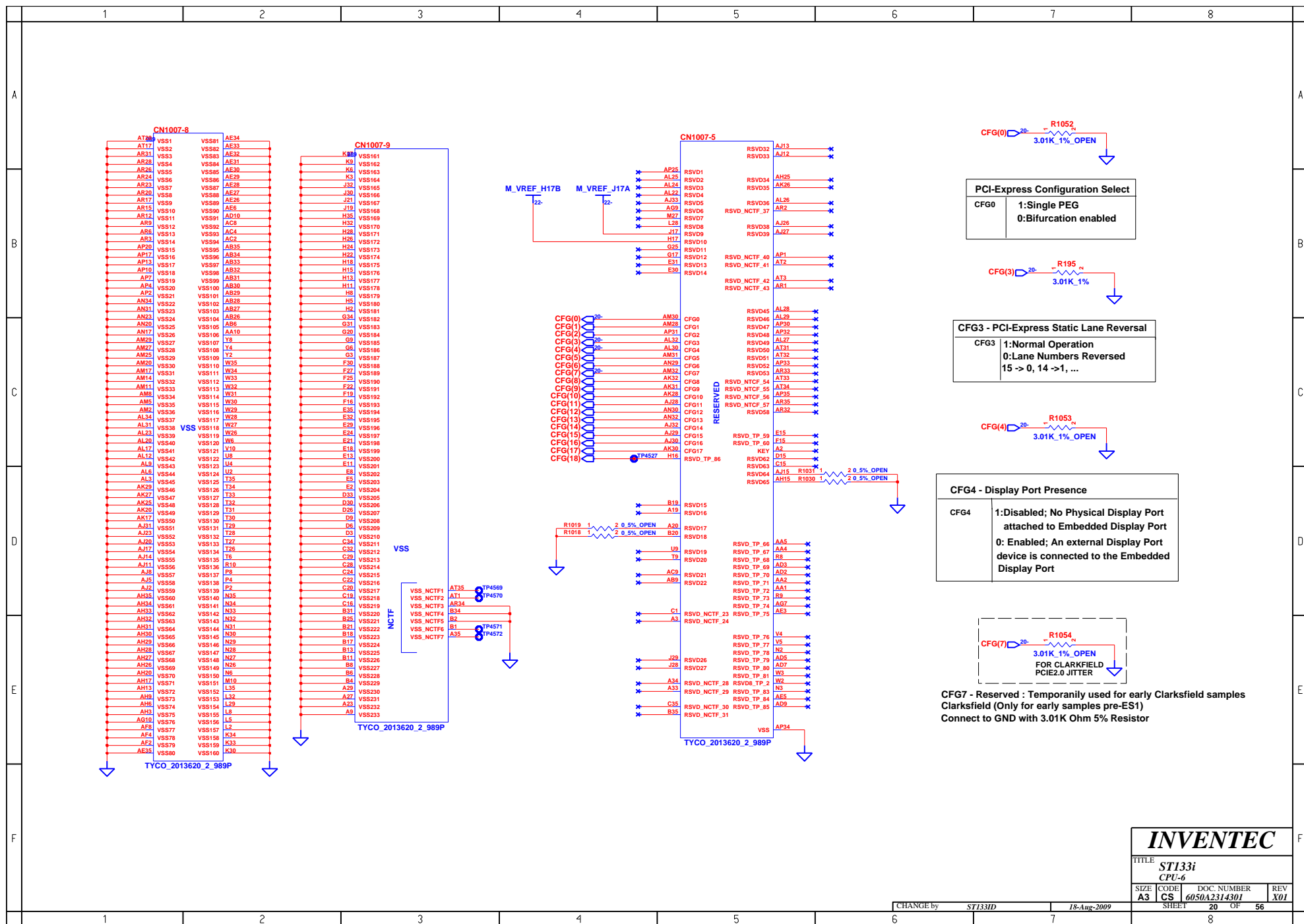


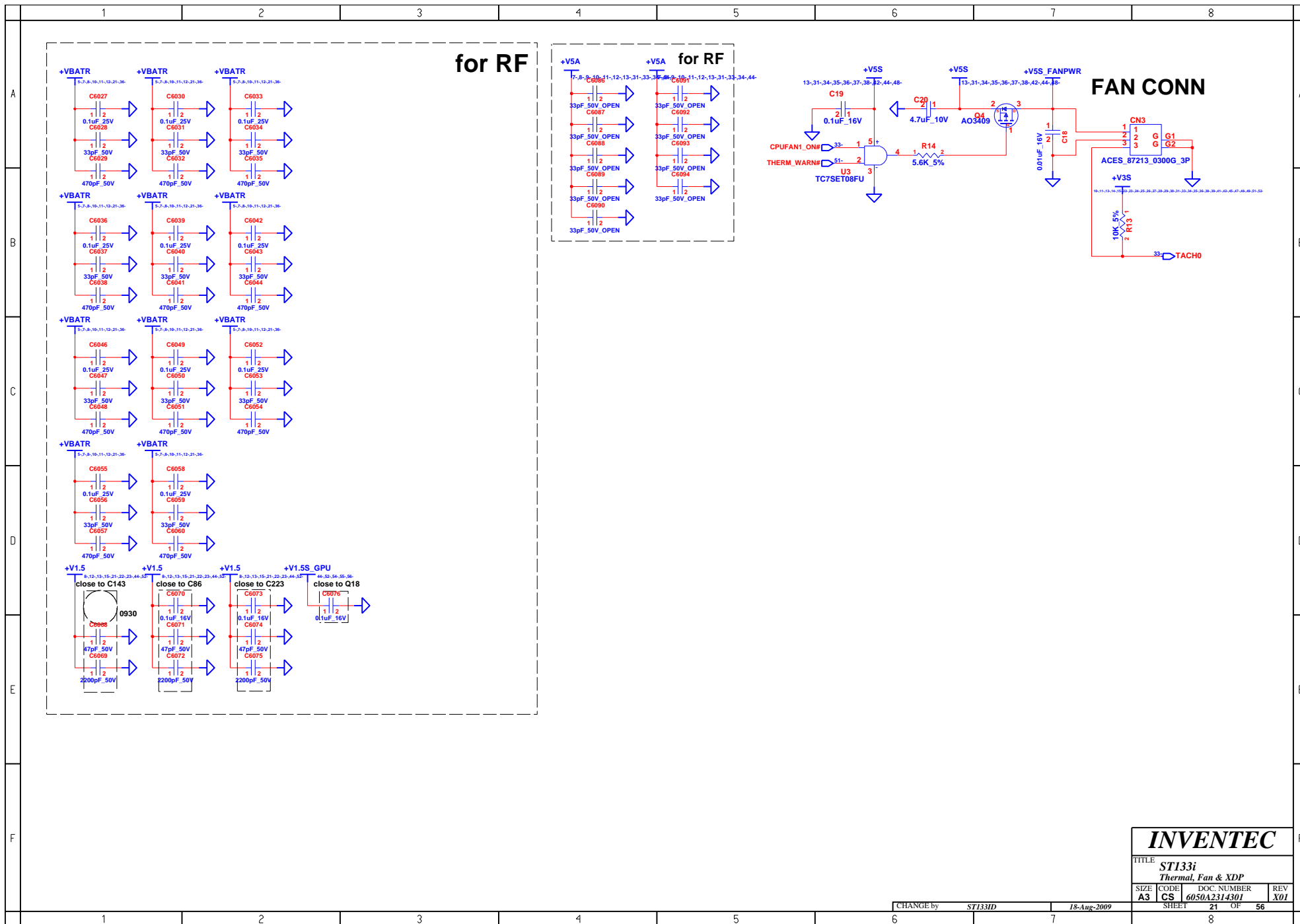
INVENTEC

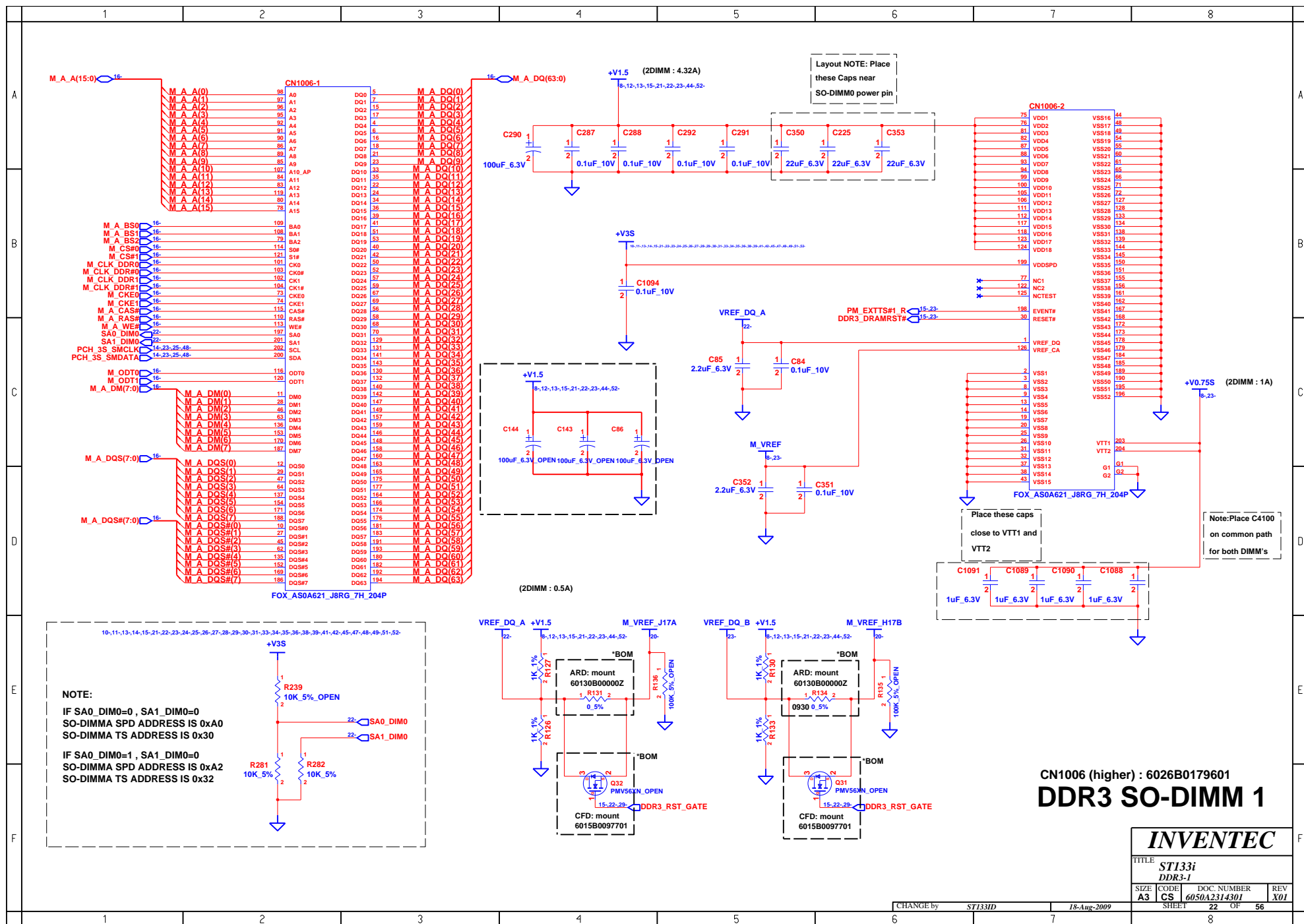
TITLE			
ST133i			
CPU-3			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2314301	X01
SHEET		OF	56

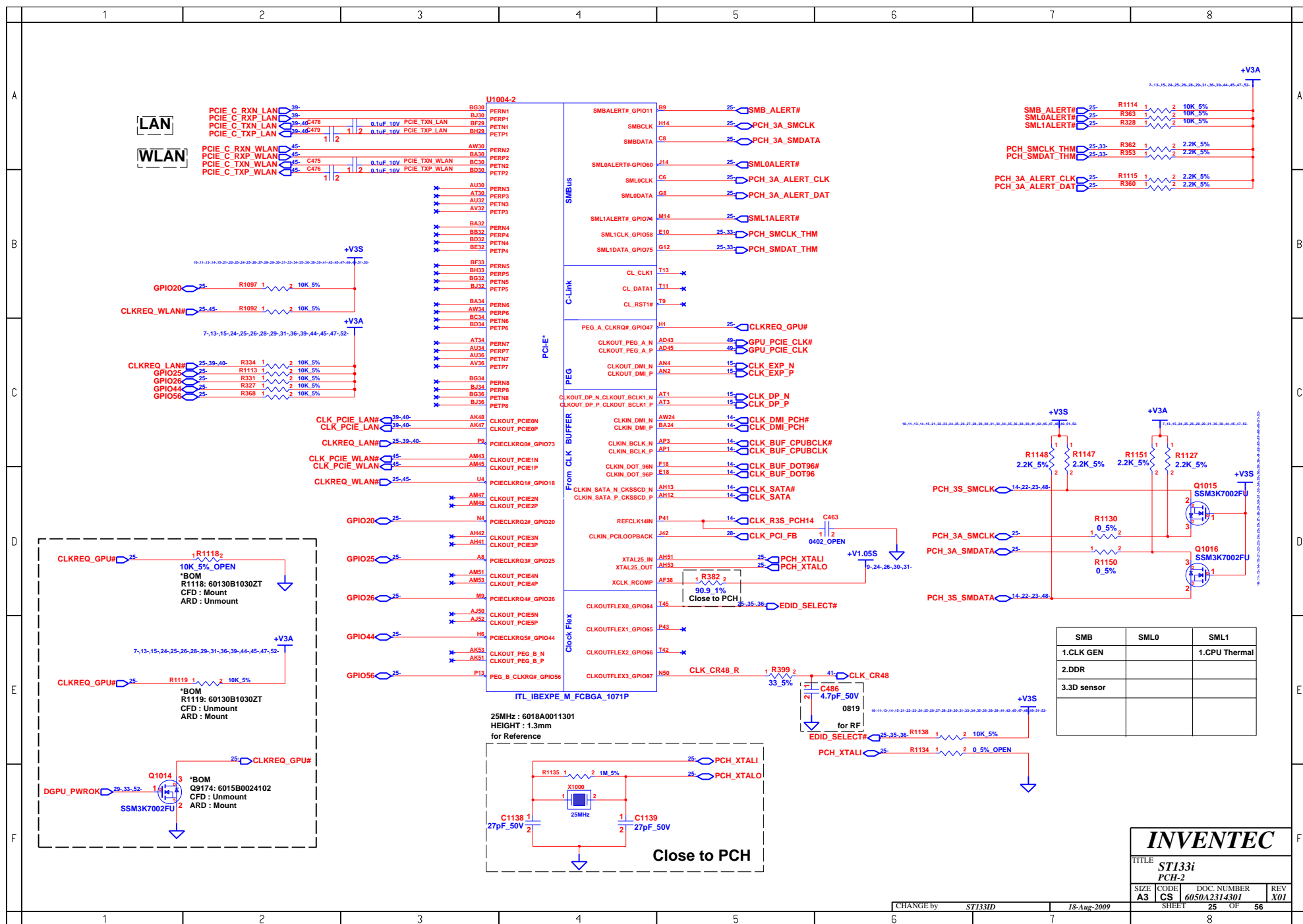
CHANGE by ST133ID 18-Aug-2009

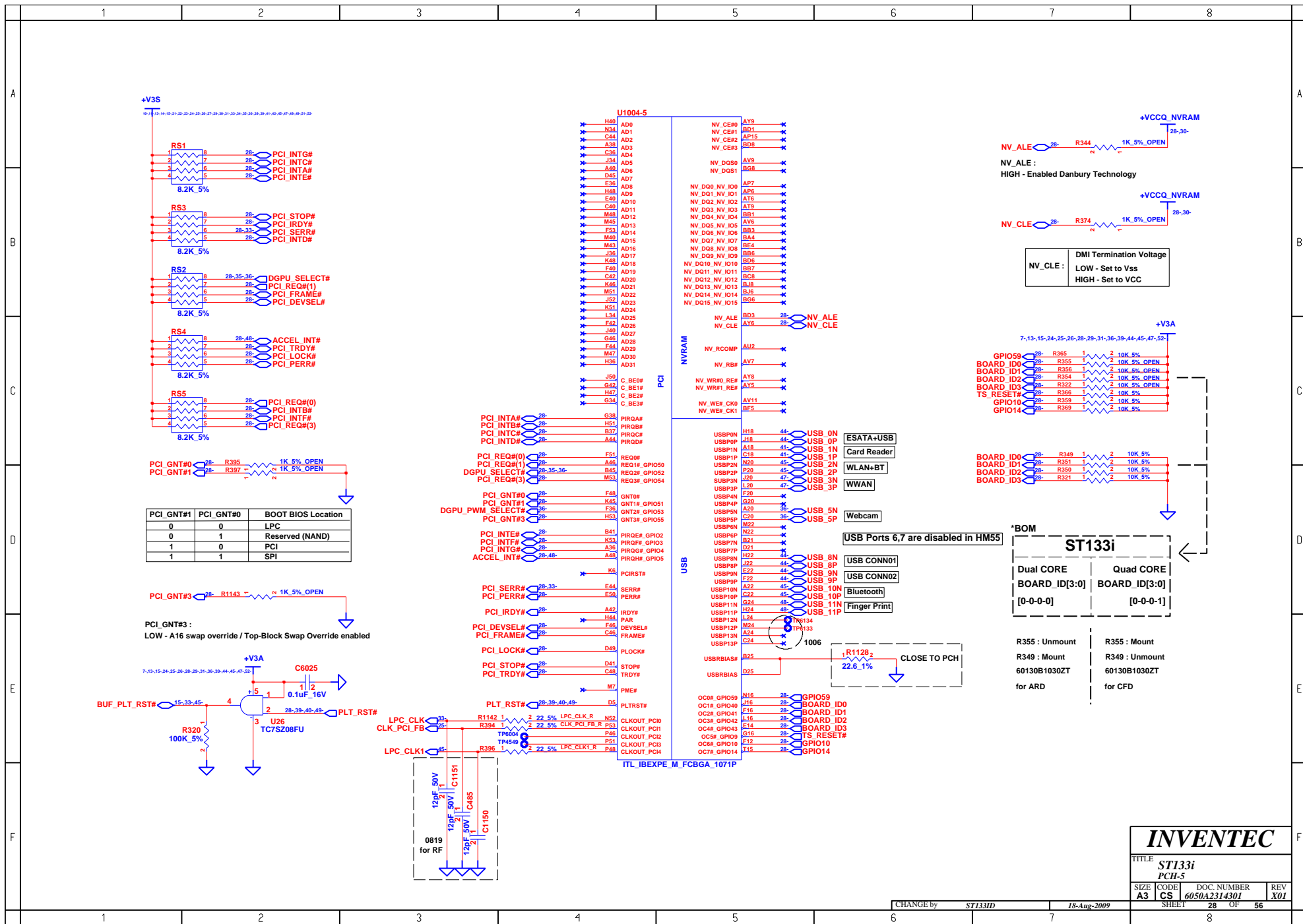


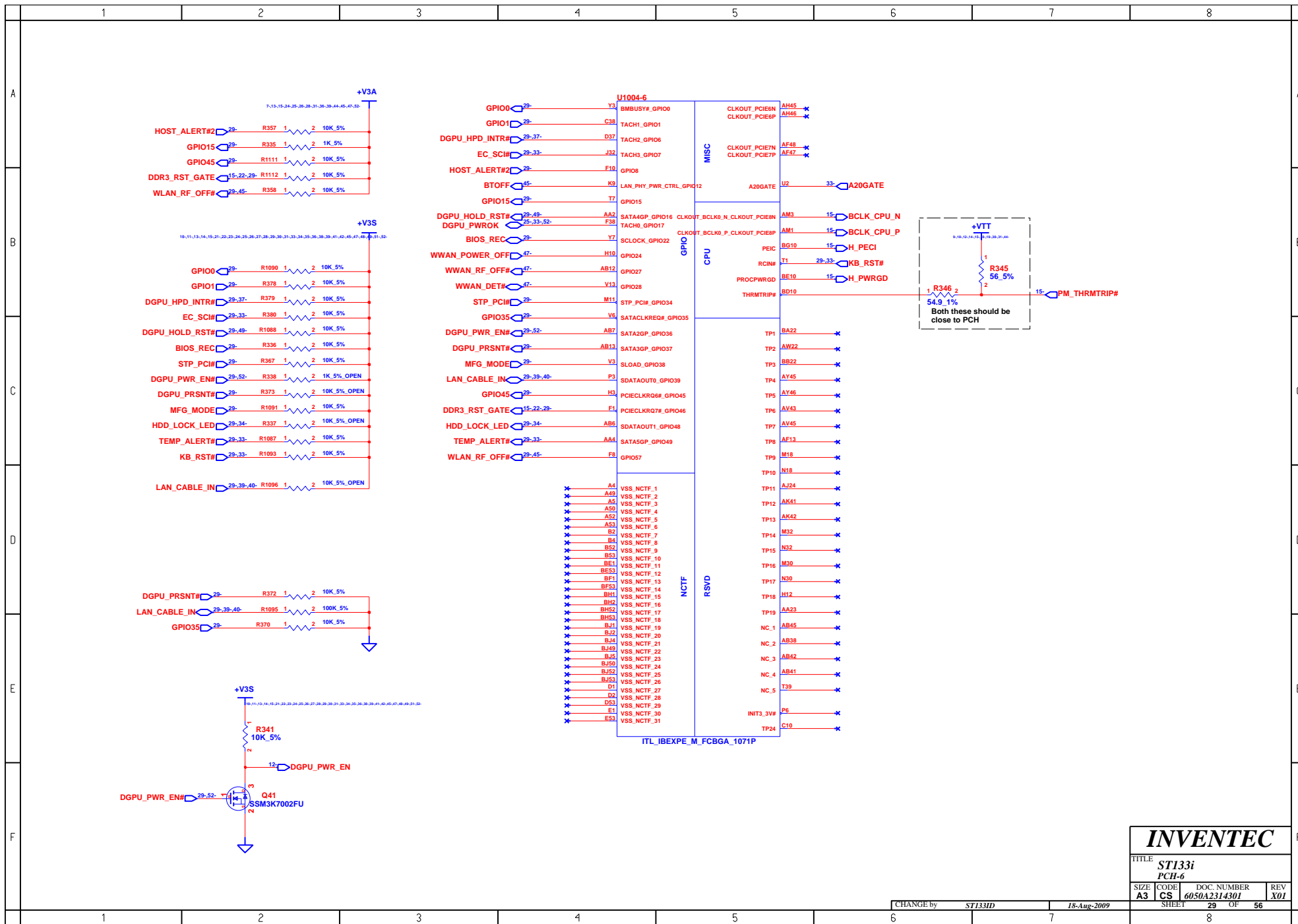










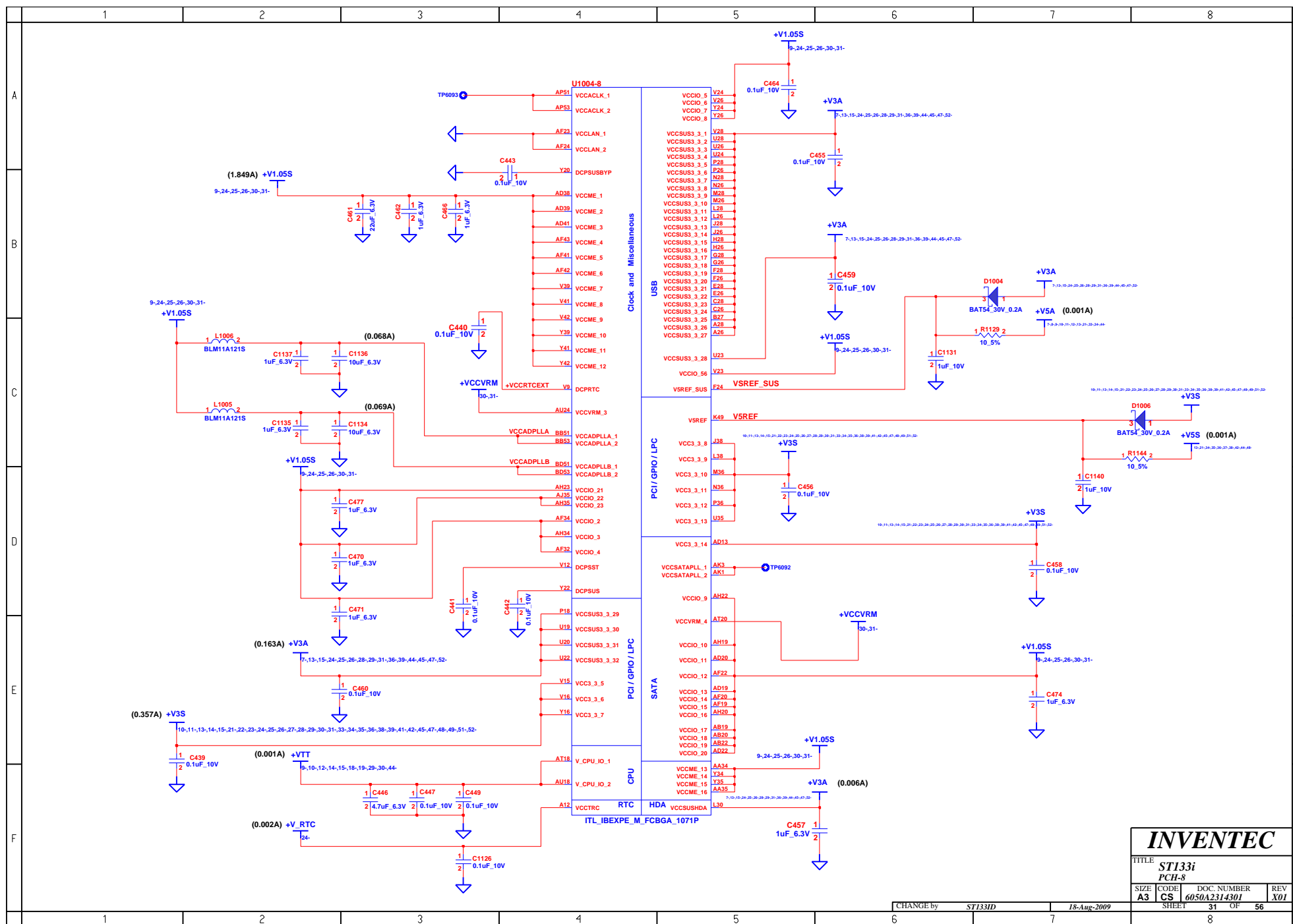


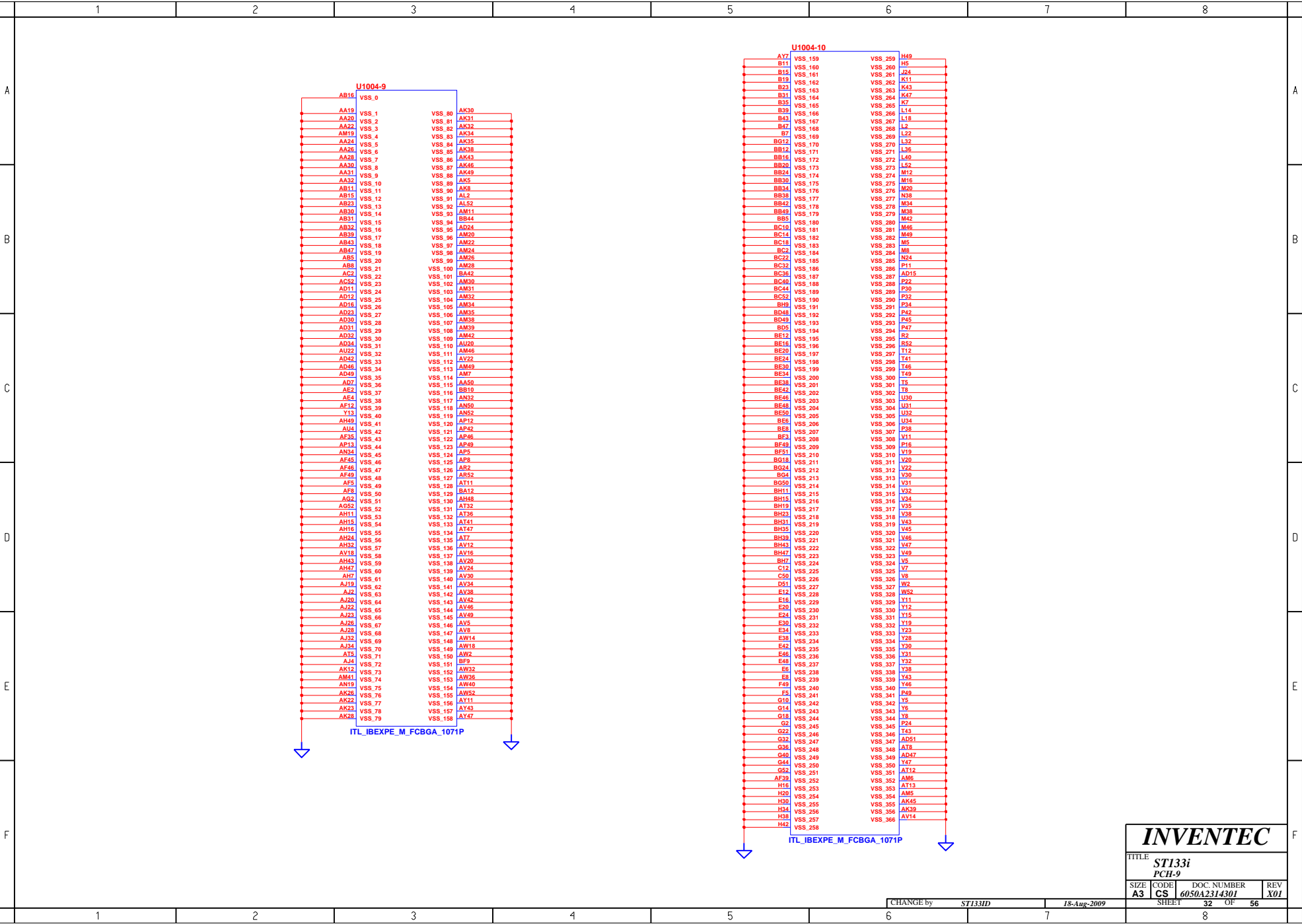
INVENTEC

TITLE			
ST133i			
PCH-6			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2314301	X01

CHANGE by ST133ID 18-Aug-2009

SHEET 29 OF 56





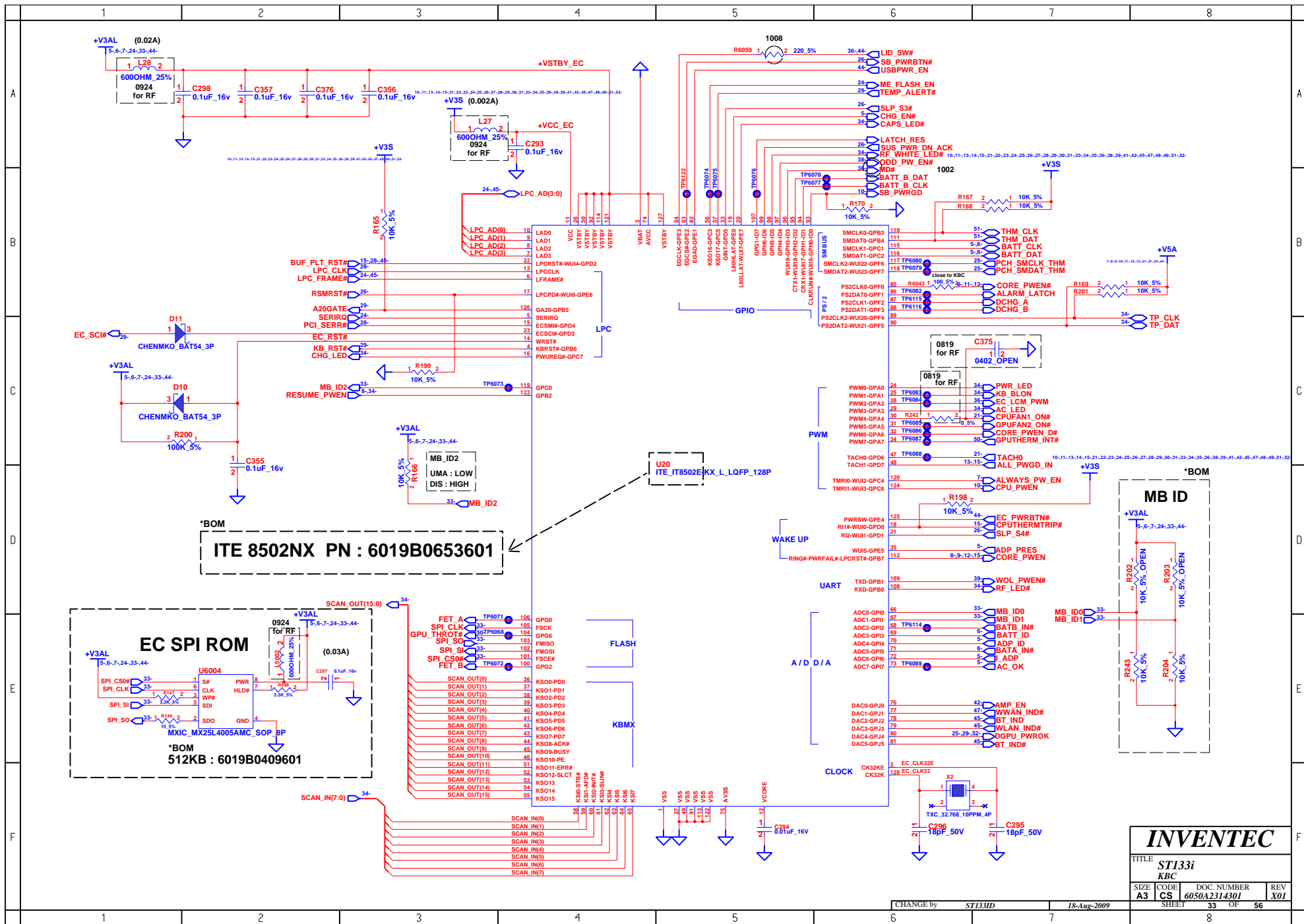
INVENTEC

TITLE
ST133i
PCH-9

SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2314301	X01

SHEET	32	OF	56
-------	----	----	----

CHANGE by **ST133D** **18-Aug-2009**



INVENTEC

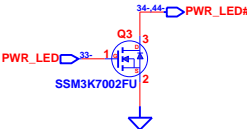
TITLE			
ST133i			
KBC			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2314301	X01
SHEET		33	OF 56

CHANGE by: ST133D 18-Aug-2009

A



D



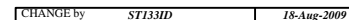
A



D

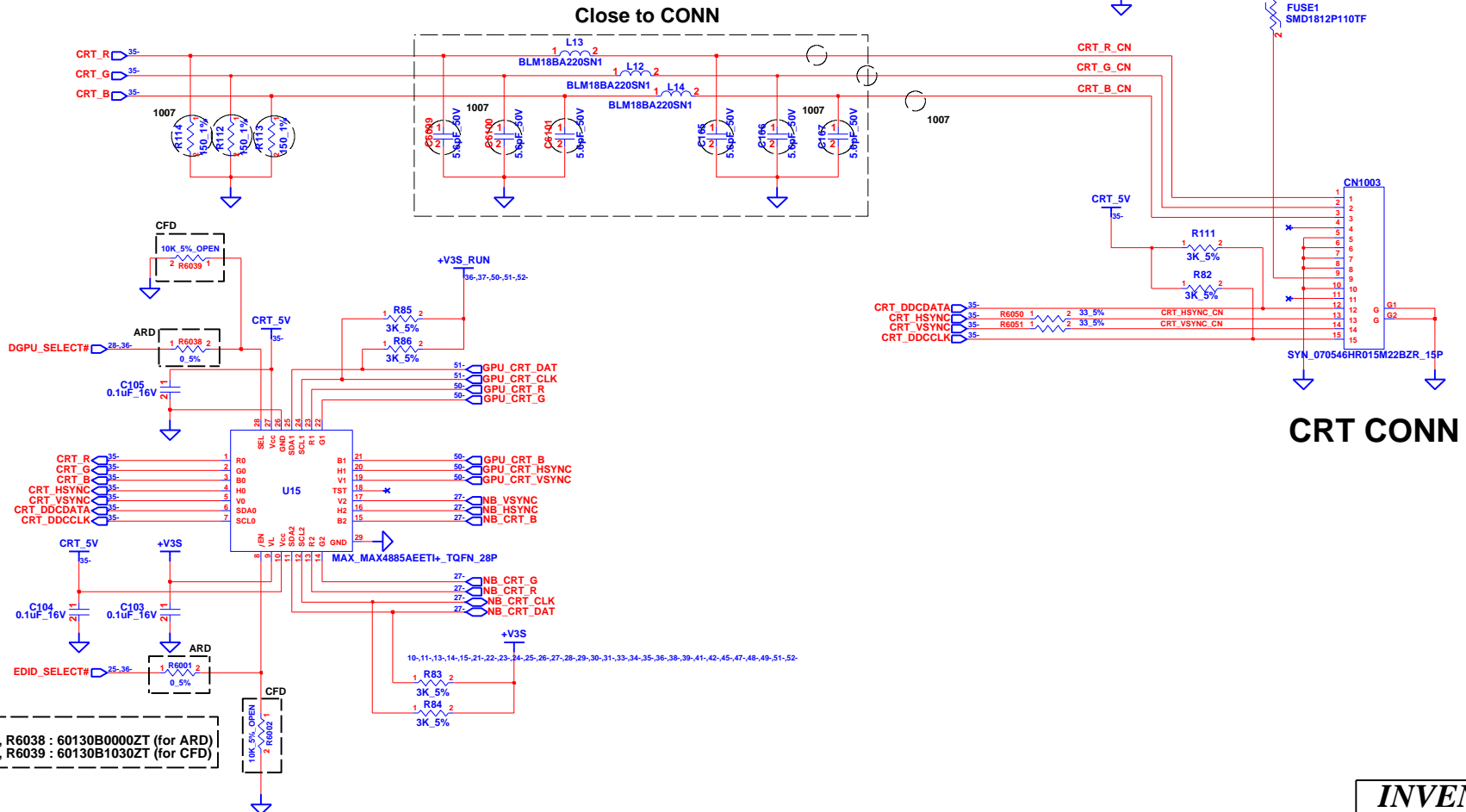


F

X0

Discrete mode ONLY

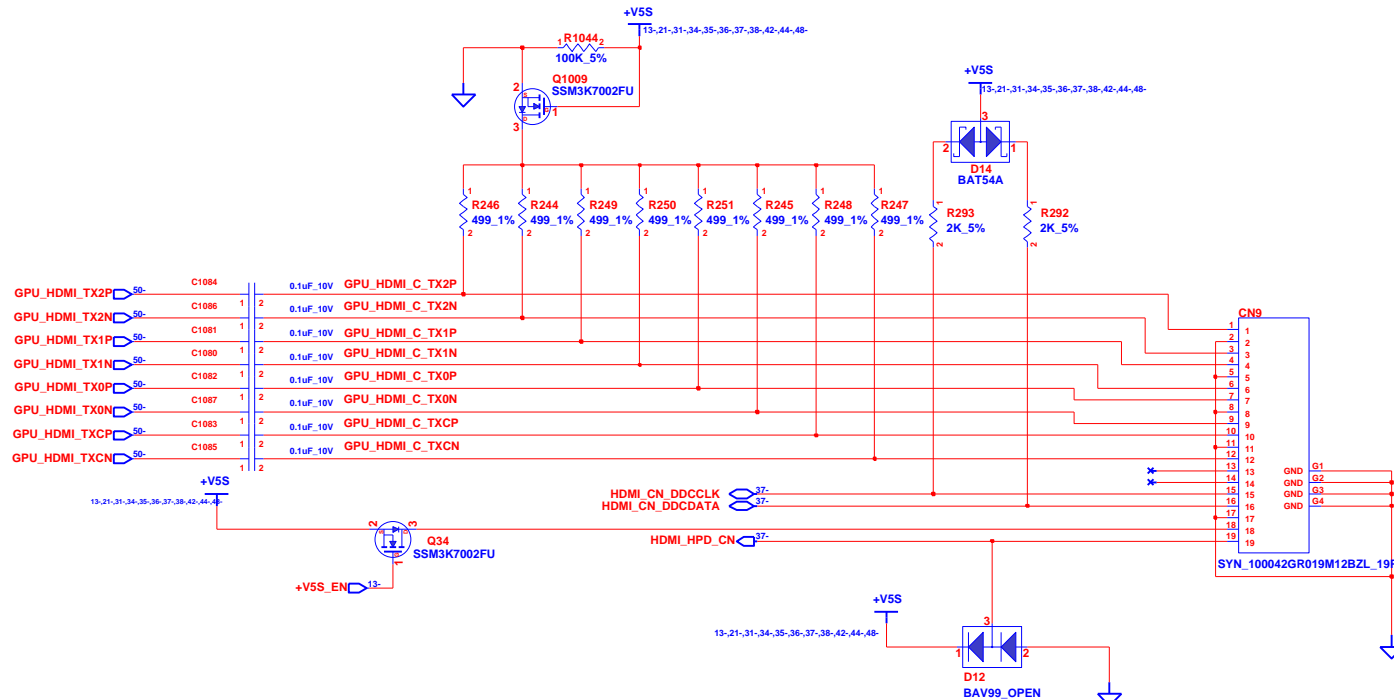
DGPU_SELECT#	S1	S2
L	ON	OFF
H	OFF	ON



INVENTEC

TITLE	ST133i	DOC. NUMBER	REV
SIZE	A3	6050A2314301	X01
CODE	CS	SHEET	35 OF 56

CHANGE by ST133ID 18-Aug-2009



HDMI CONN

	DGPU_HPD_INTR#
Plug Cable	L
Unplug Cable	H

	GPU_HDMI_HPD
Plug Cable	H
Unplug Cable	L

	HDMI_HPD_CN
Plug Cable	H
Unplug Cable	L

INVENTEC

TITLE ST133i HDMI Level-Shift			
SIZE A3	CODE CS	DOC. NUMBER 6050A2314301	REV X01

CHANGE by ST133ID 18-Aug-2009

SHEET 37 OF 56

A



D



A

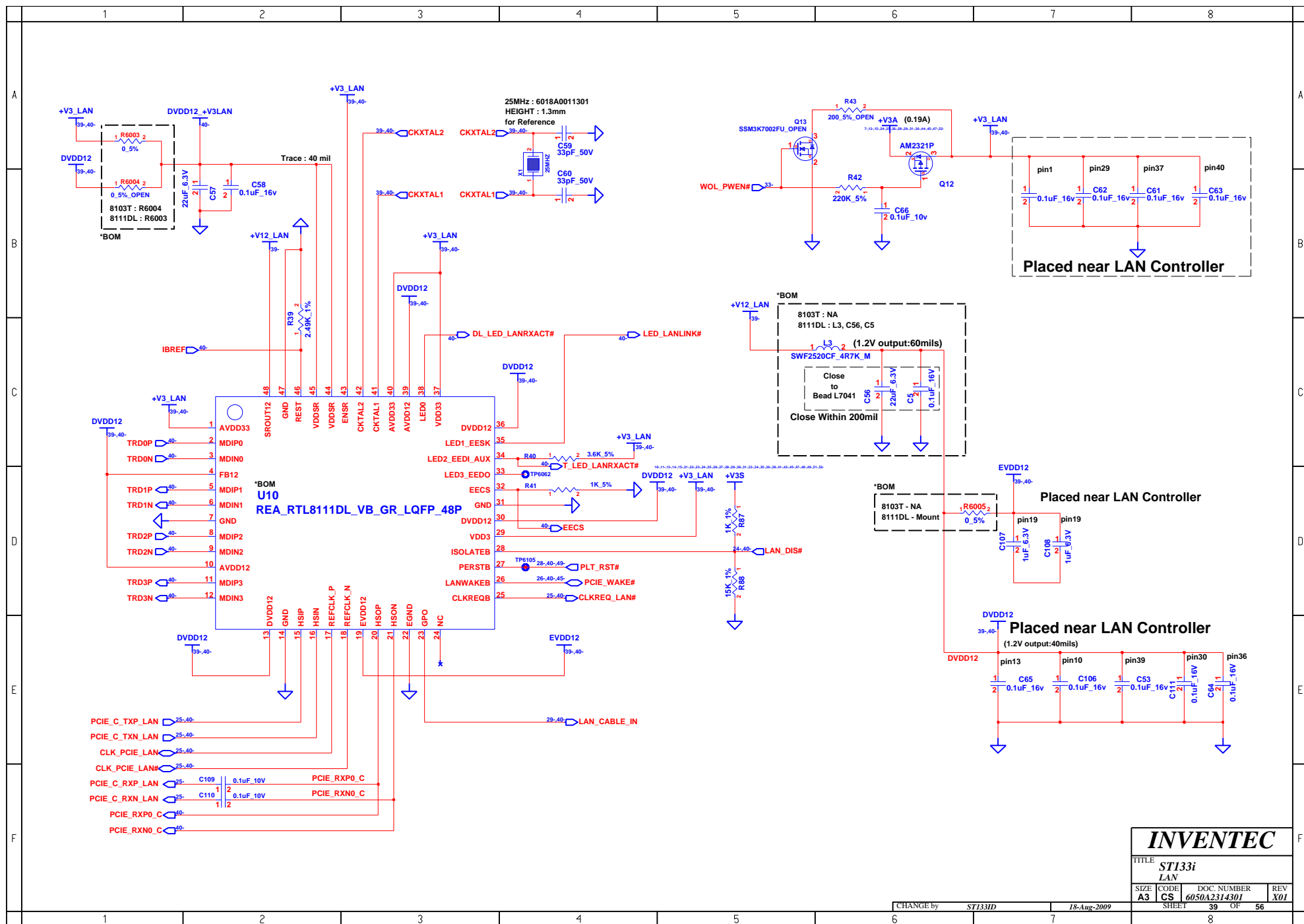


01

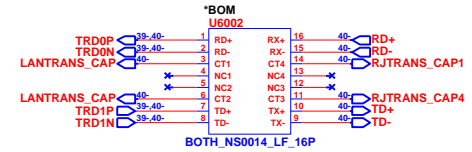
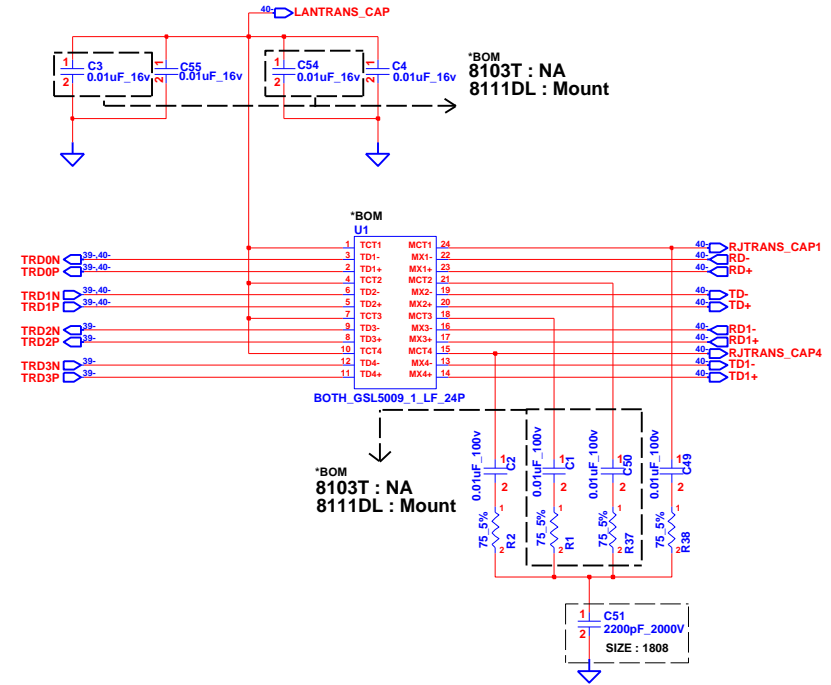
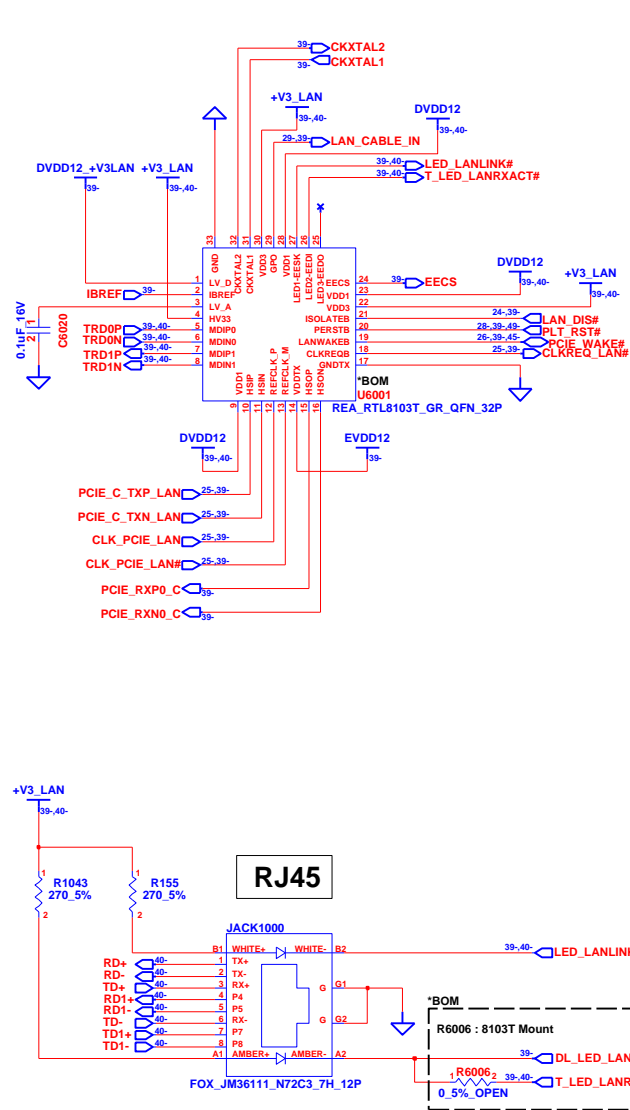


F

CHANGE by	ST133ID	18-Aug-2009
-----------	---------	-------------



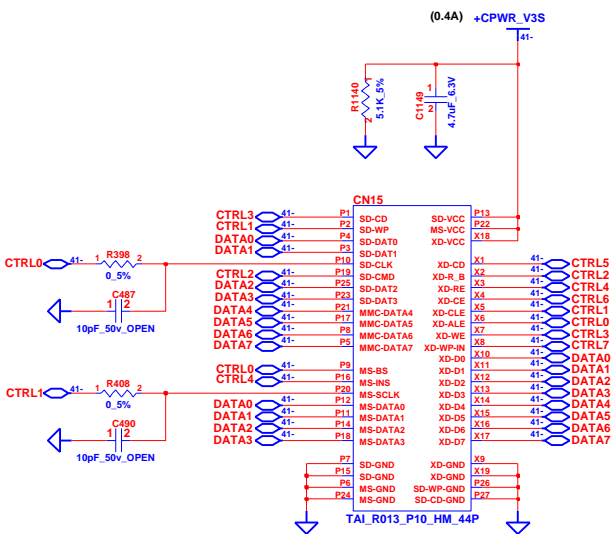
LAYOUT NOTE : Place termination resistors and caps as close to LAN controller as possible



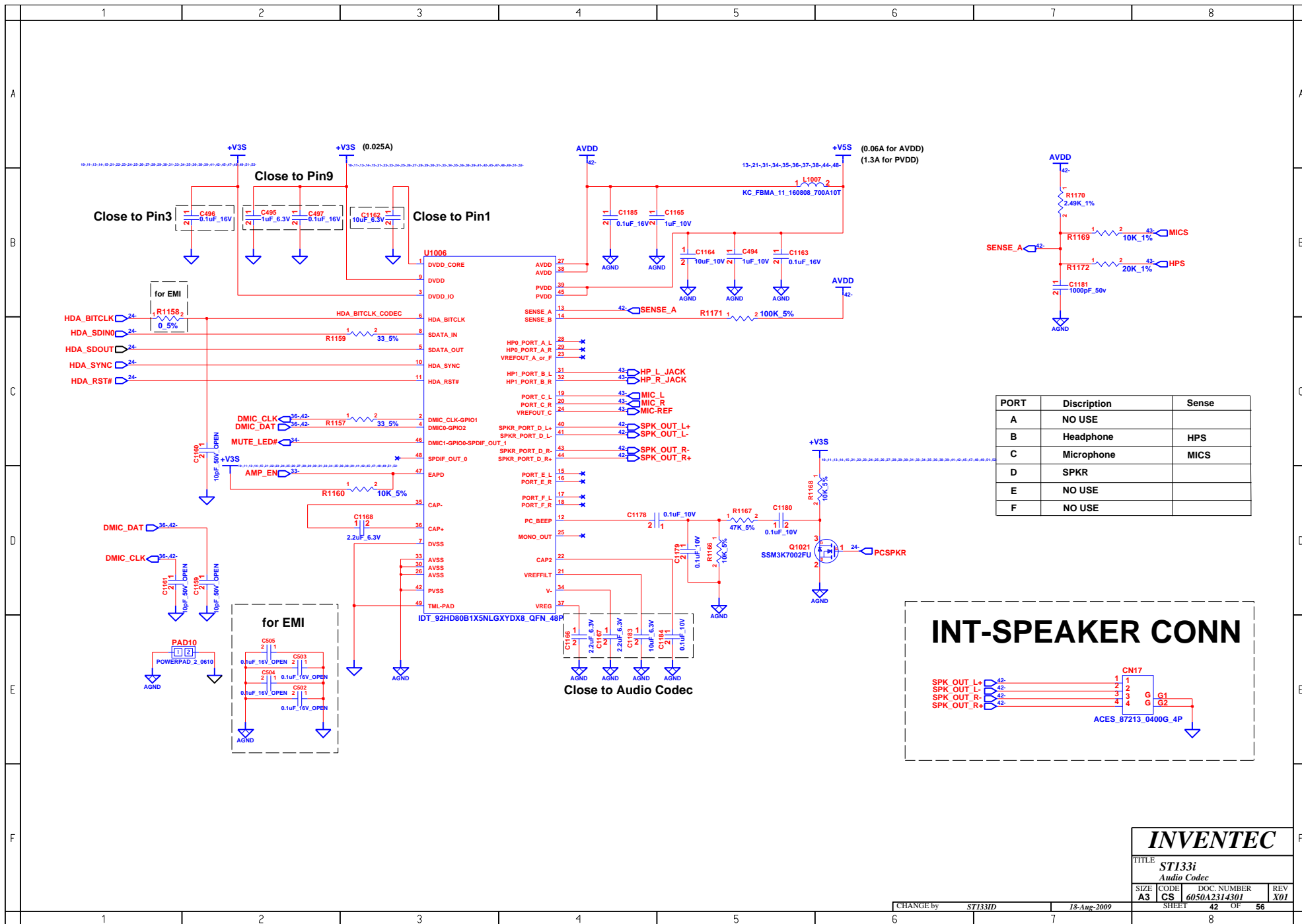
INVENTEC

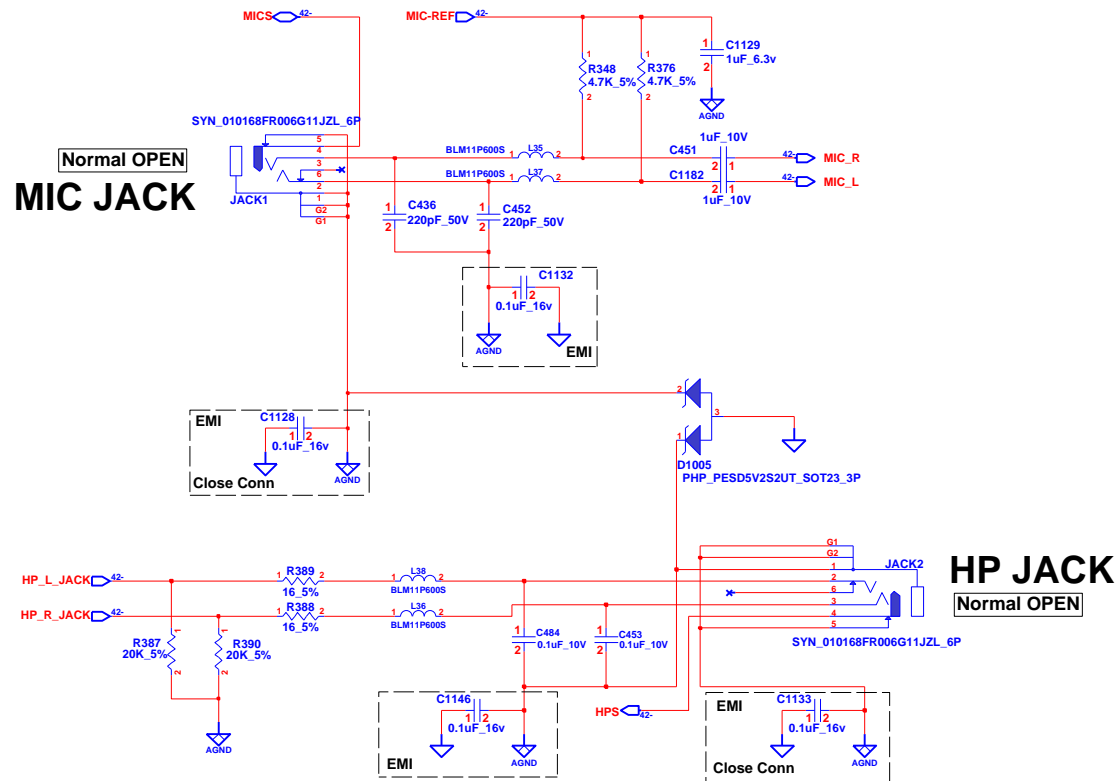
TITLE			
<i>ST133i</i> <i>RJ-45</i>			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	<i>6050A2314301</i>	<i>X01</i>
SHEET		40	OF 56

CHANGE by	ST133ID	26-Aug-2009
-----------	---------	-------------



SIZE A3	CODE CS	DOC. NUMBER 6050A2314301	REV X01
SHEET 41 OF 56			





INVENTEC

TITLE			
ST133i			
HP JACK & MIC JACK			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2314301	X01

CHANGE by ST133D 18-Aug-2009

SHEET 43 OF 56

A



D



F



A



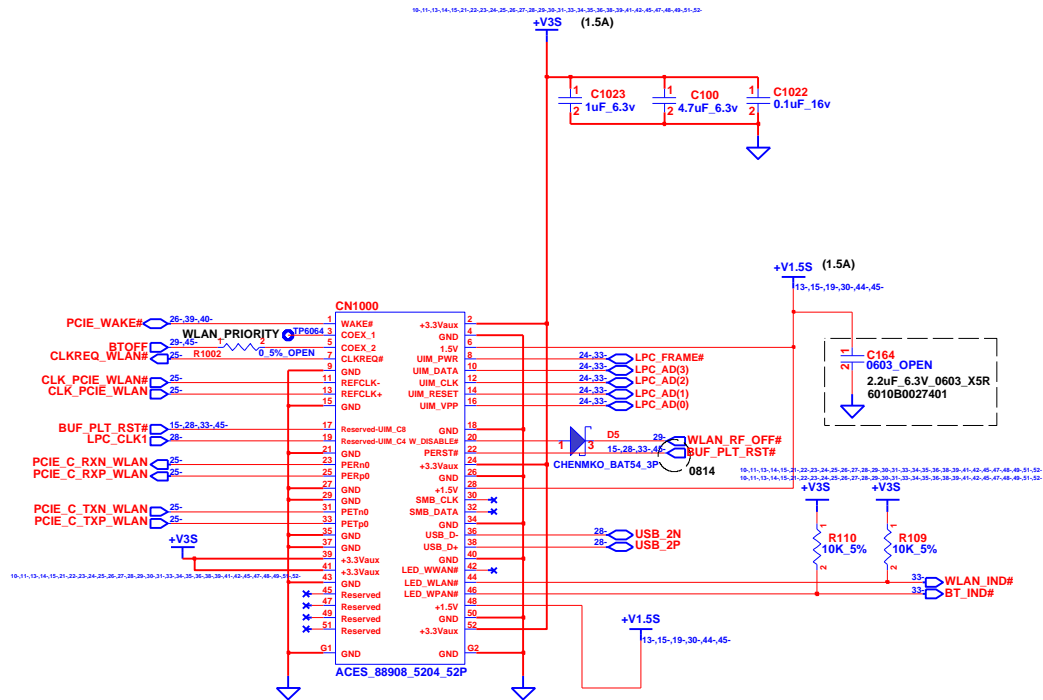
D



F

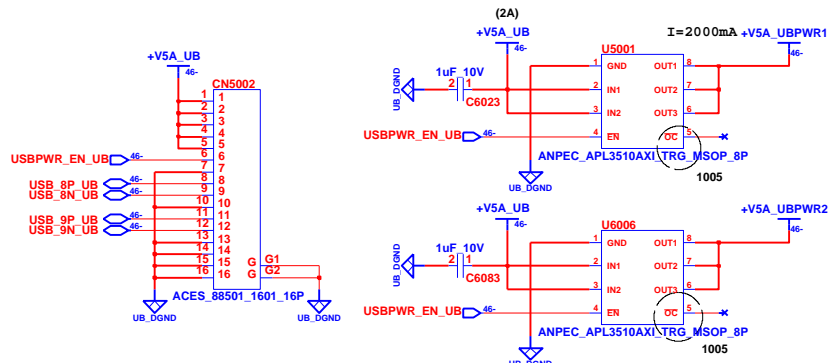


WLAN CONN (MINICARD)

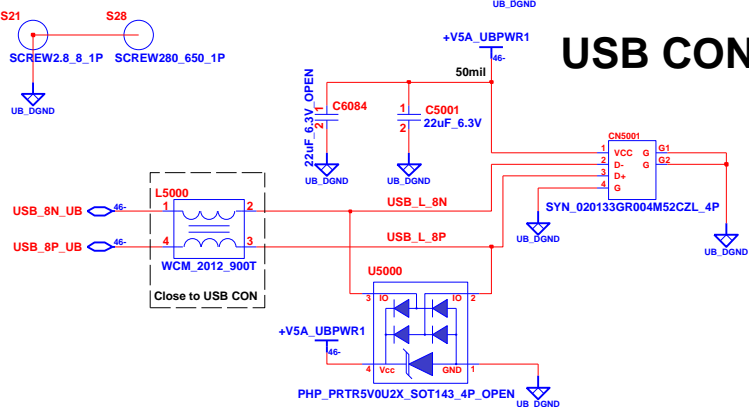


INVENTEC			
TITLE ST133i WLAN, BT & WebCAM			
SIZE A3	CODE CS	DOC. NUMBER 6050A2314301	REV X01
SHEET 45		OF 56	

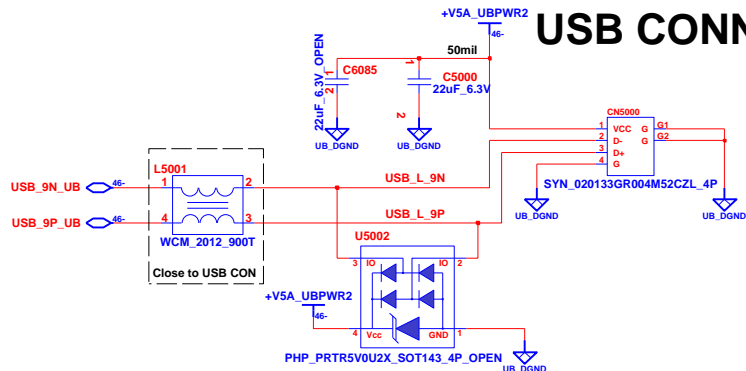
USB BOARD Cable ON UB



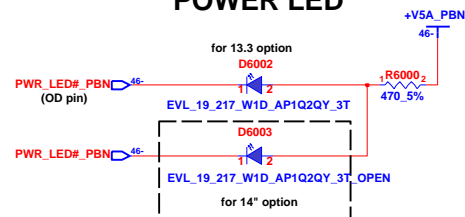
USB CONN01



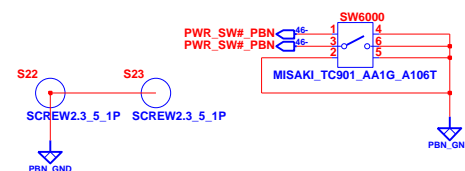
USB CONN02



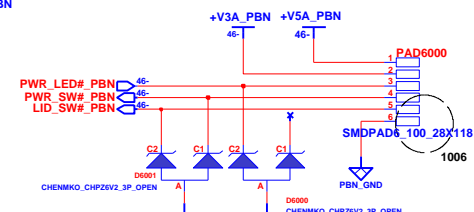
POWER LED



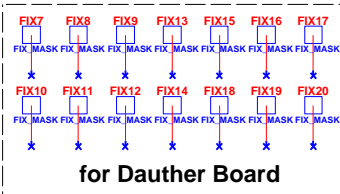
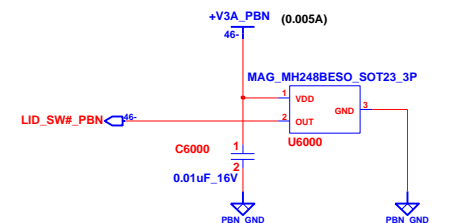
POWER BUTTON



PBN Cable CN on PBN



LID SWITCH



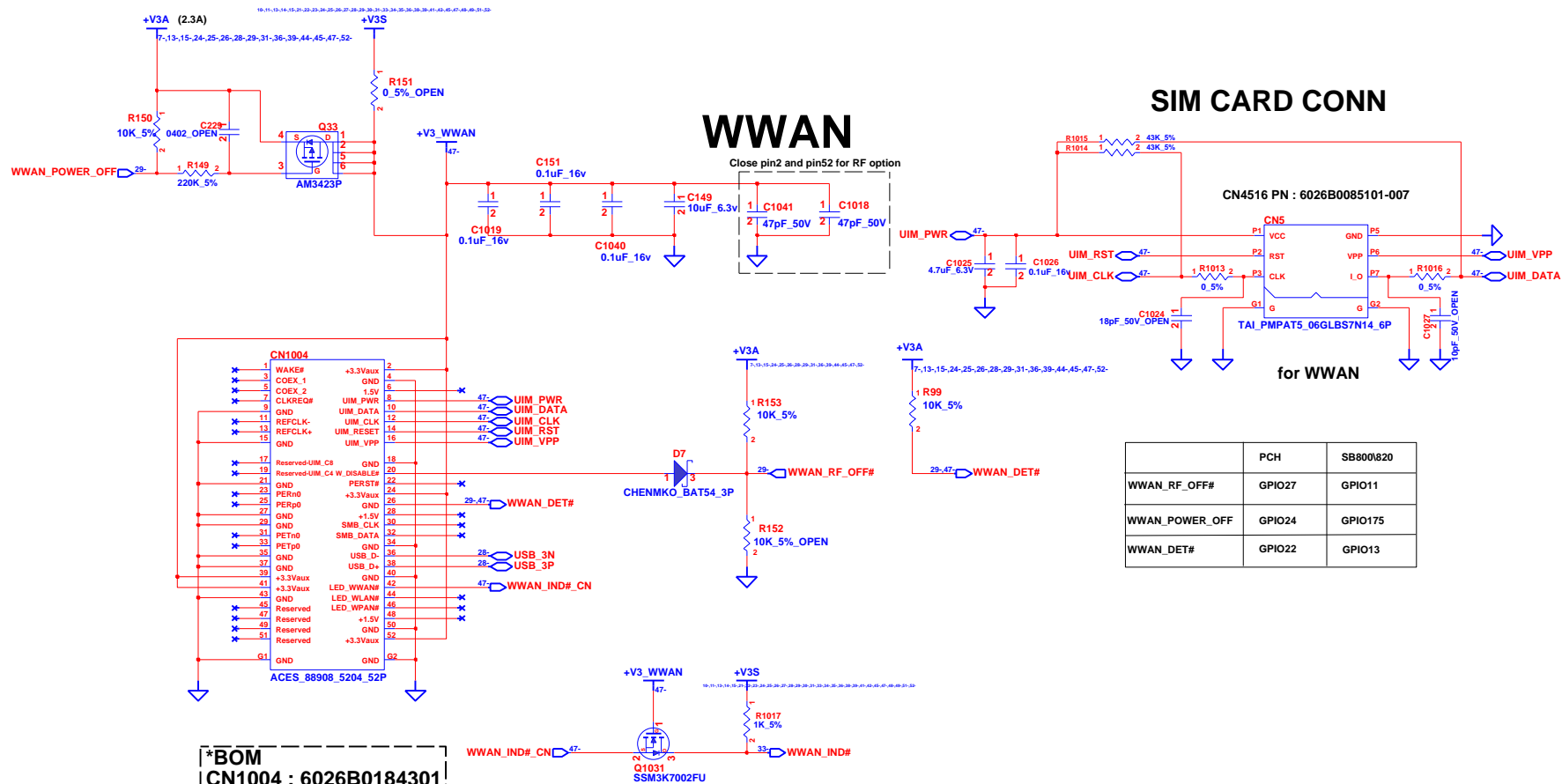
INVENTEC

TITLE			
ST133i			
USB, PowerButton (DB)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2314301	X01

CHANGE by ST133ID 18-Aug-2009

SHEET 46 OF 56

OPTION PART



INVENTEC

TITLE
ST133i
WWAN(Optional)

SIZE
A3

CODE
CS

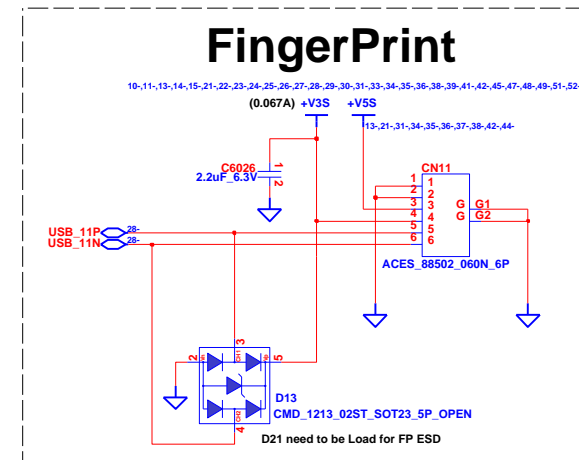
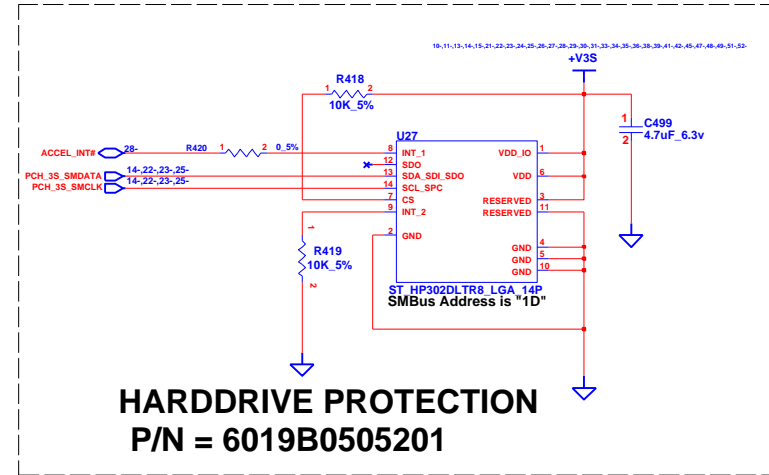
DOC. NUMBER
6050A2314301

REV
X01

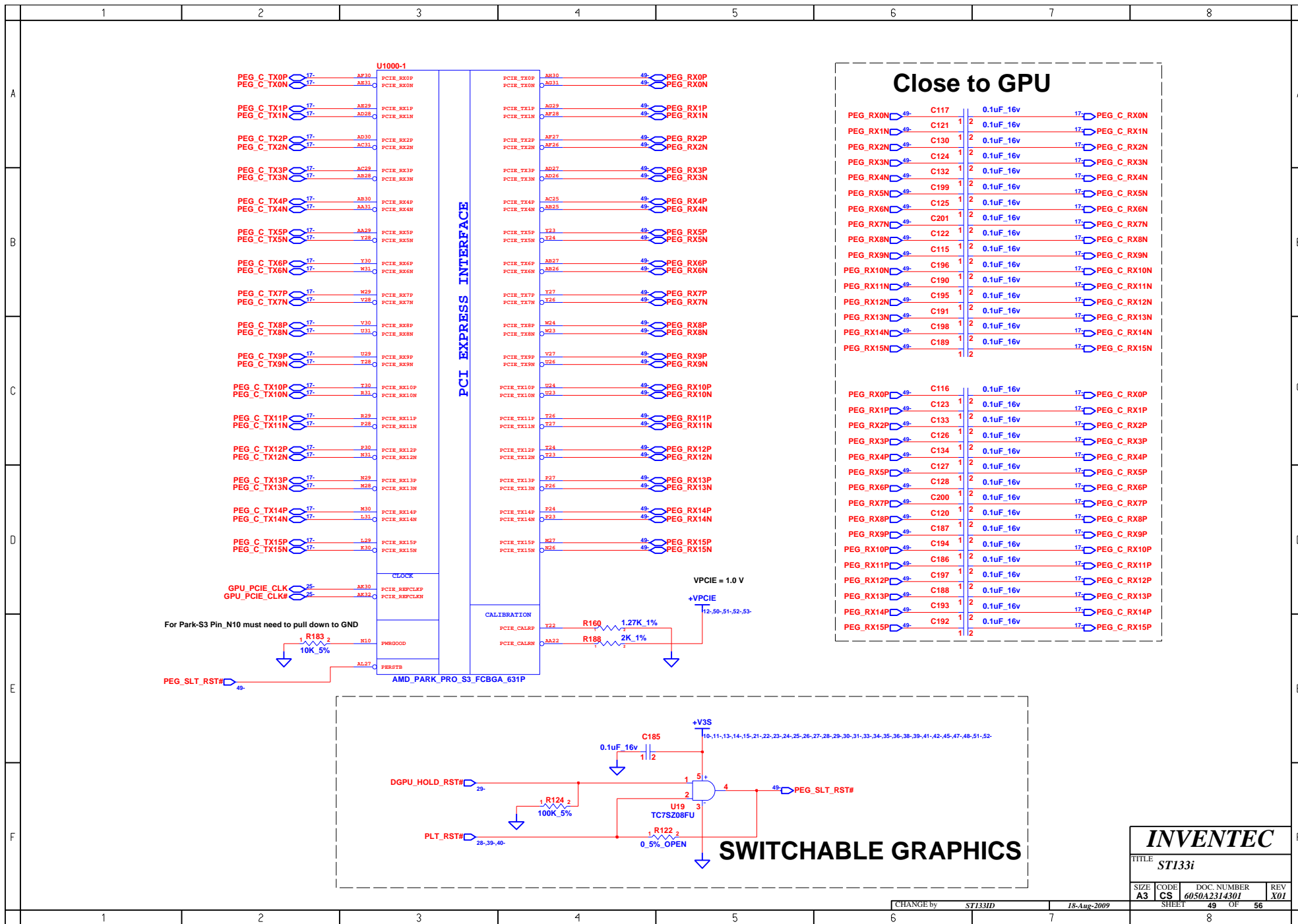
CHANGE by ST133ID 18-Aug-2009

SHEET 47 OF 56

OPTION PART



INVENTEC			
TITLE			
ST133i			
Touchscreen, FP & HD LOCK(Option)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2314301	X01
CHANGE by		ST133ID	18-Aug-2009
SHEET		48	OF 56

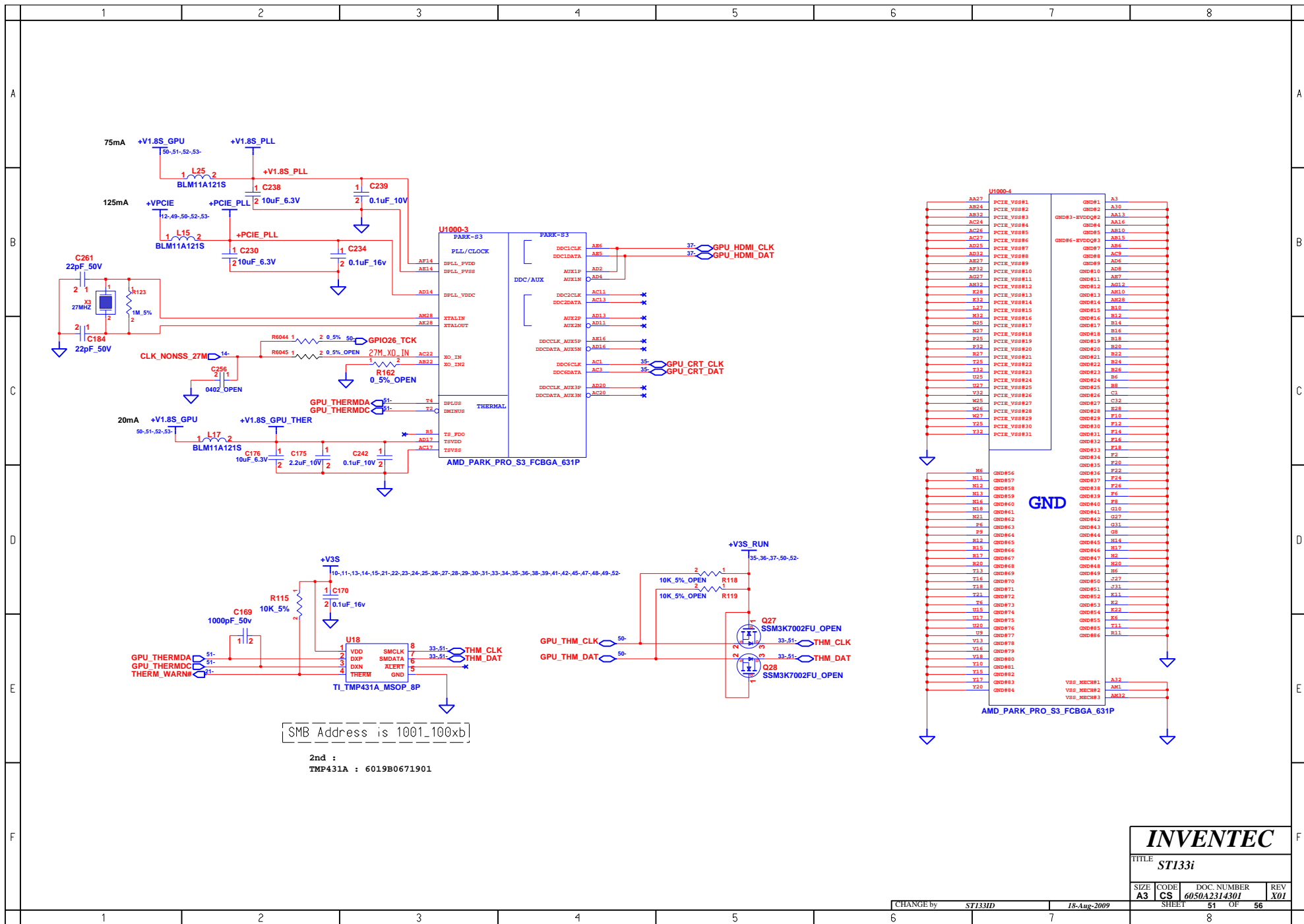


ABC

1



1



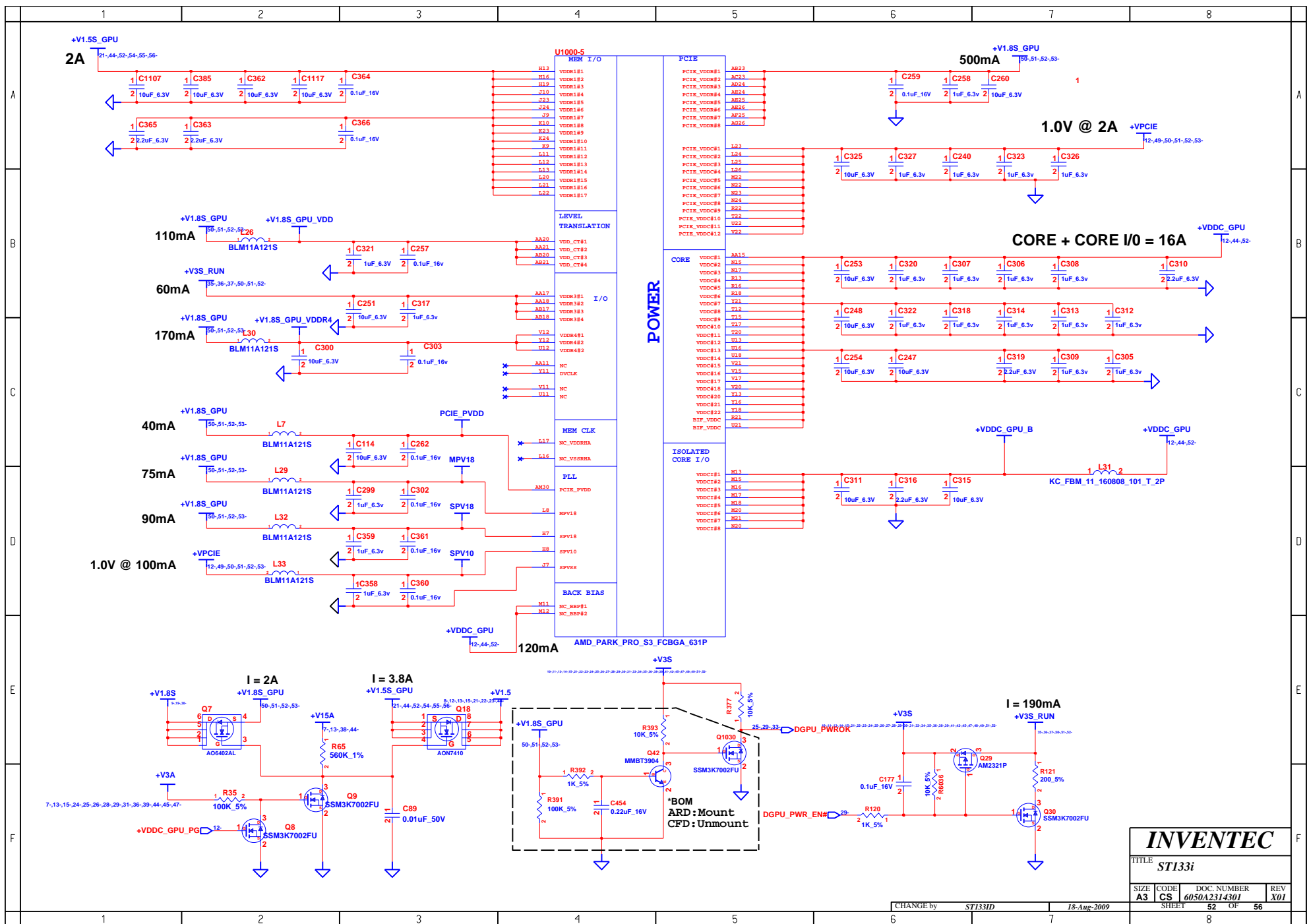
INVENTEC

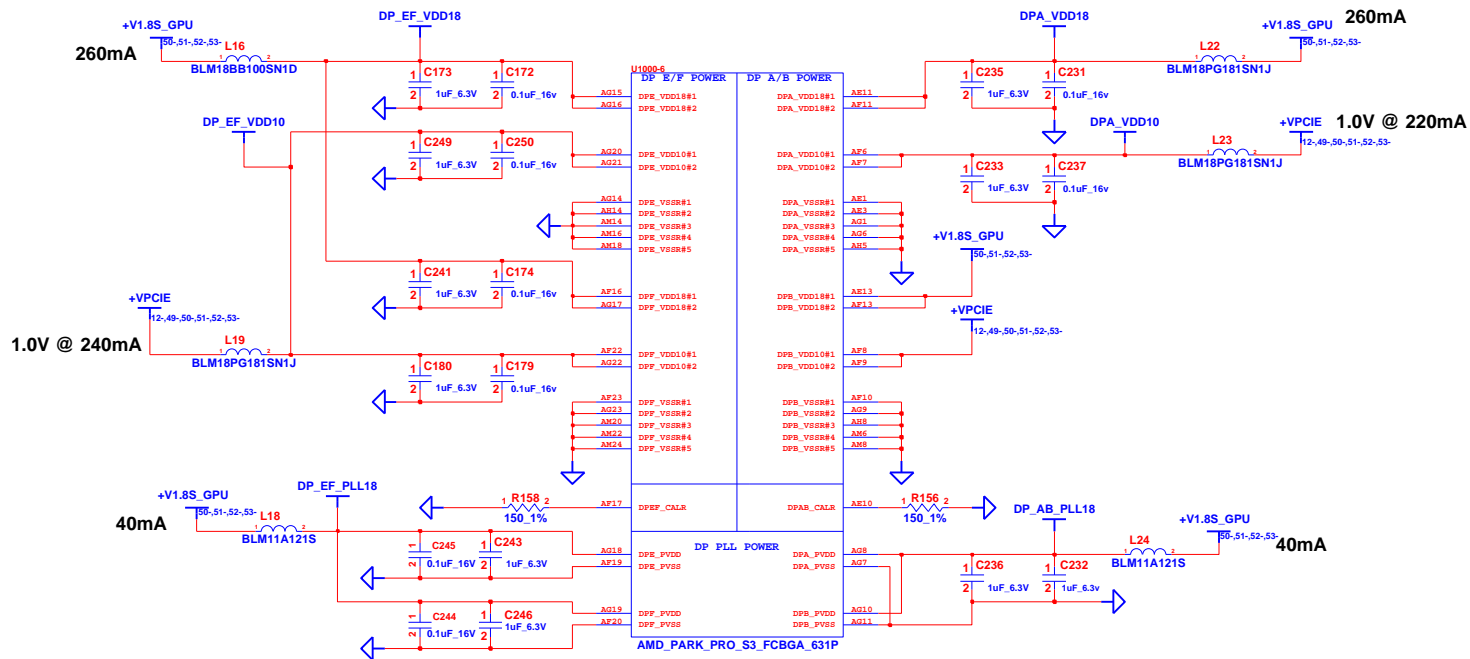
TITLE
ST133i

SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2314301	X01

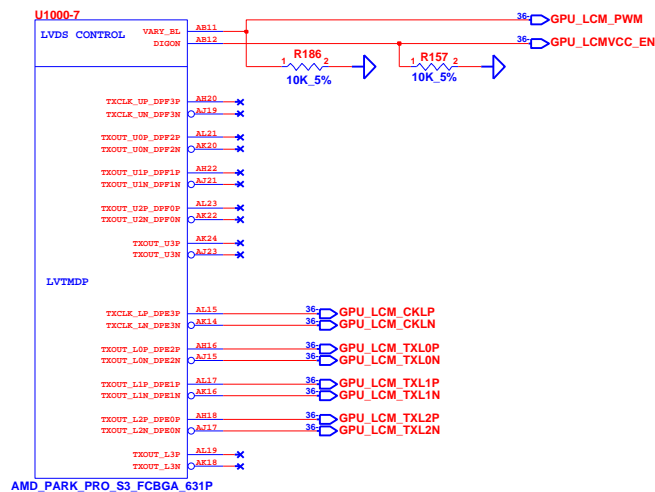
CHANGE by ST133ID 18-Aug-2009

SHEET 51 OF 56





LVDS Interface



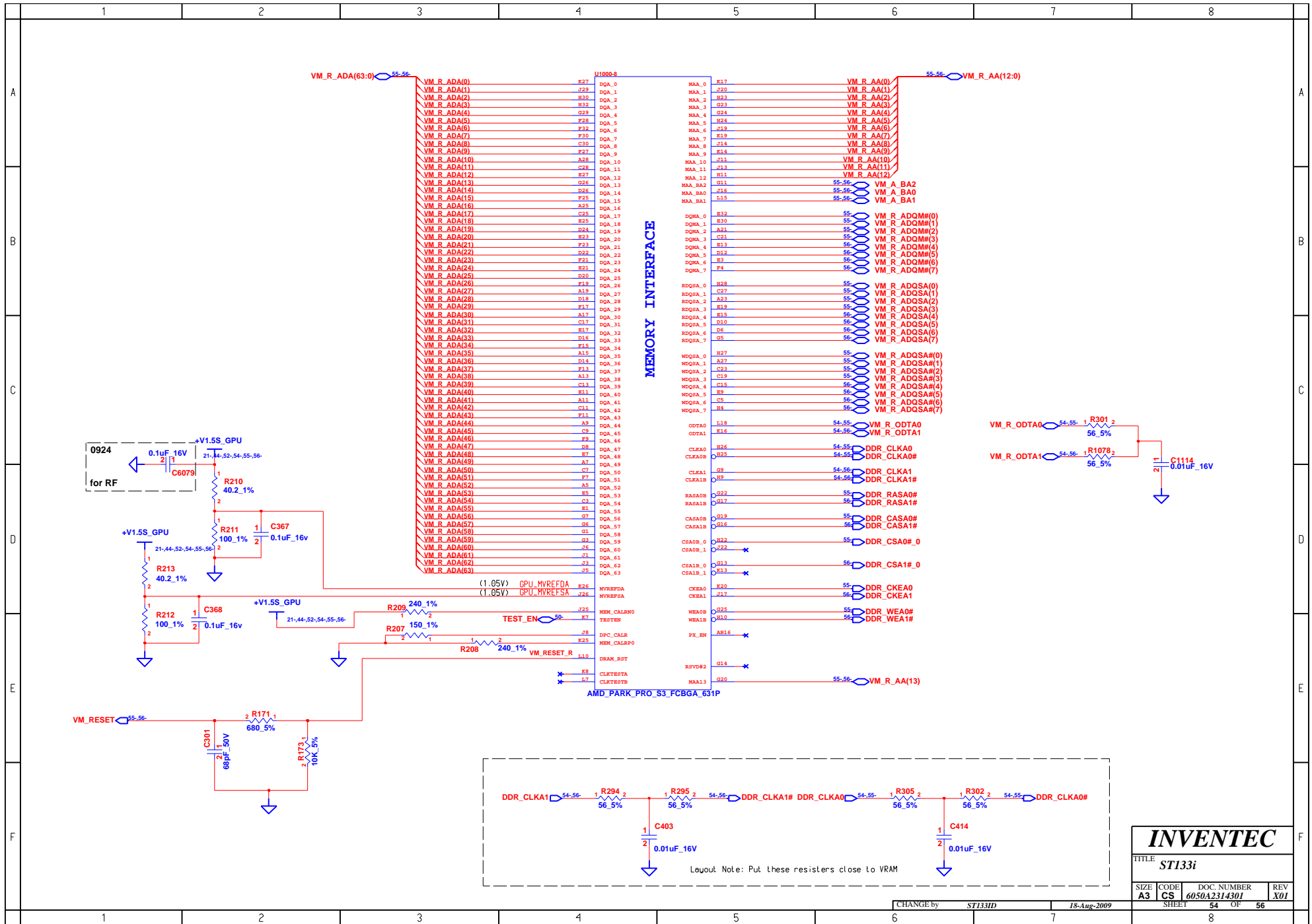
INVENTEC

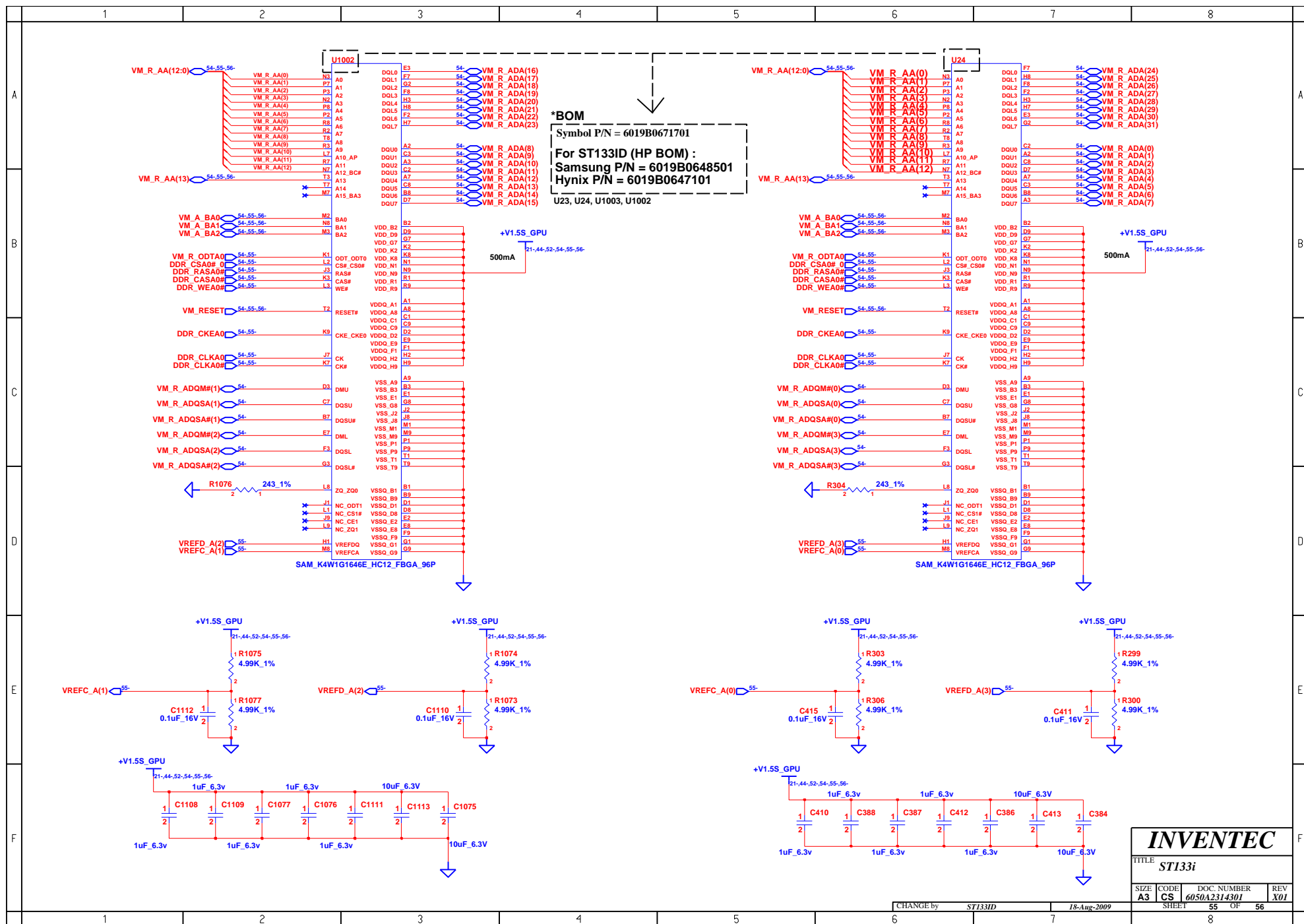
TITLE
ST133i

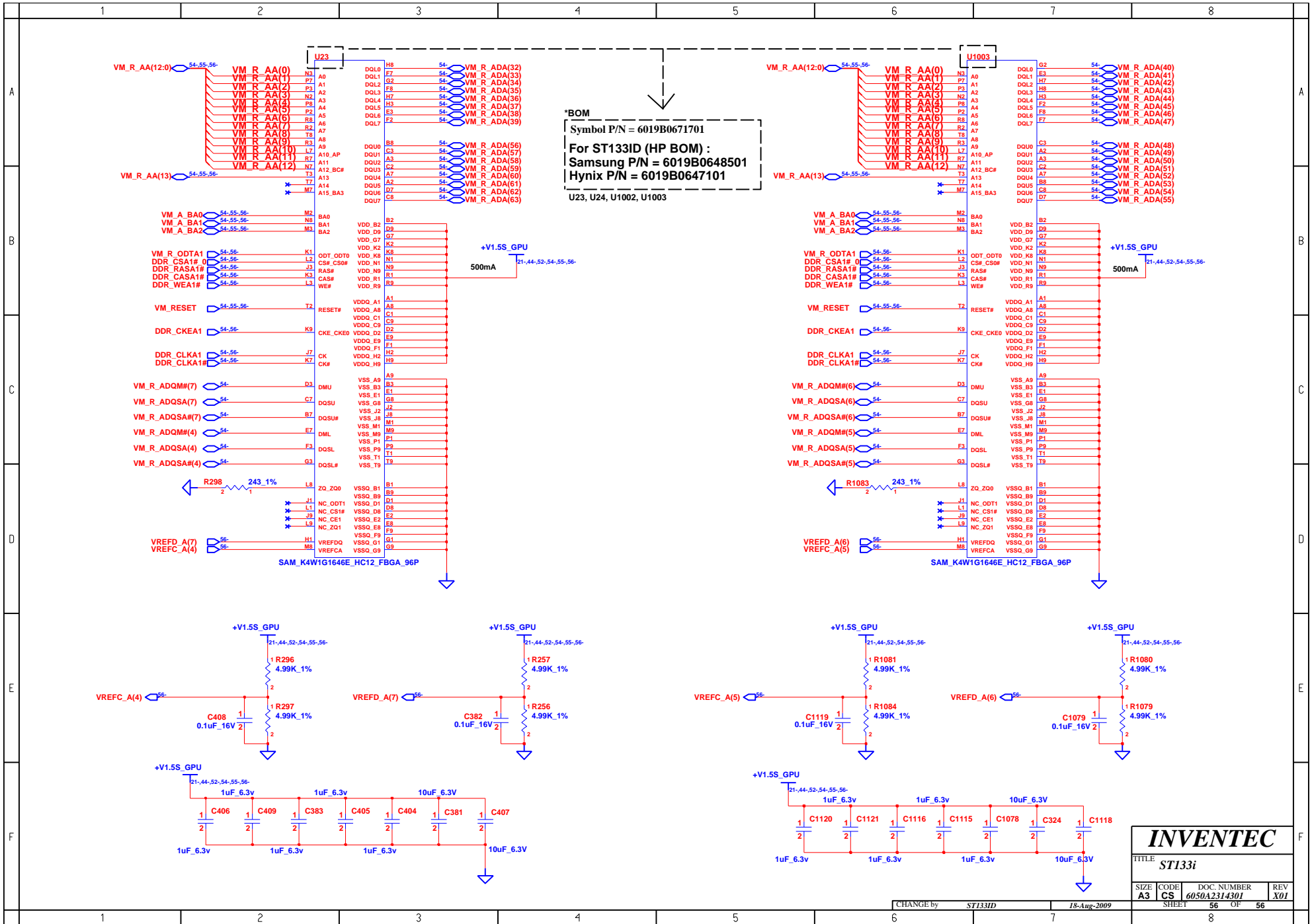
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2314301	X01

CHANGE by ST133ID 18-Aug-2009

SHEET 53 OF 56







INVENTEC

TITLE			
ST133i			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2314301	X01
SHEET		56	OF 56

CHANGE by ST133iD 18-Aug-2009