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ST145i - (PELE)  
SI BUILD

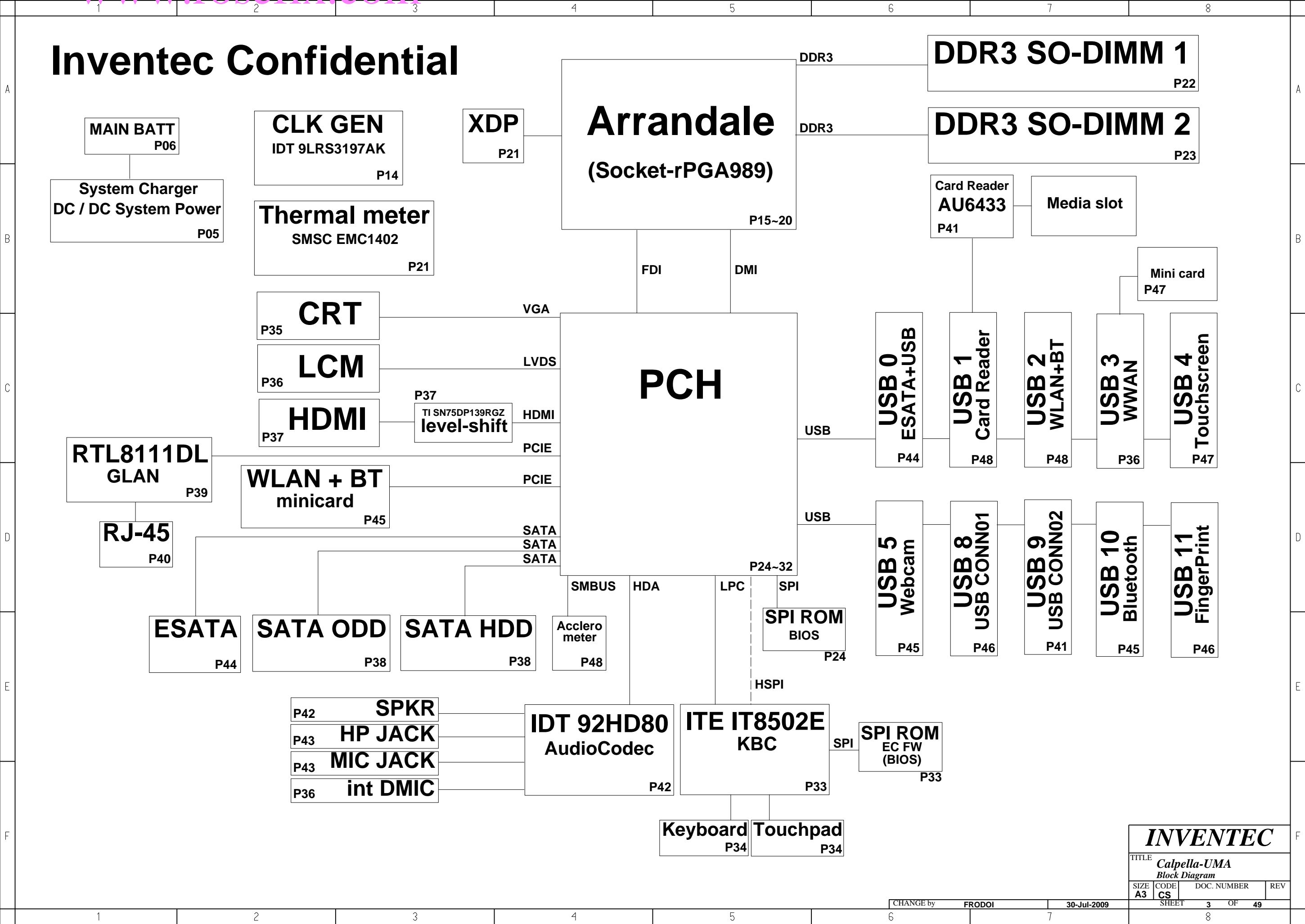
2009/11/27

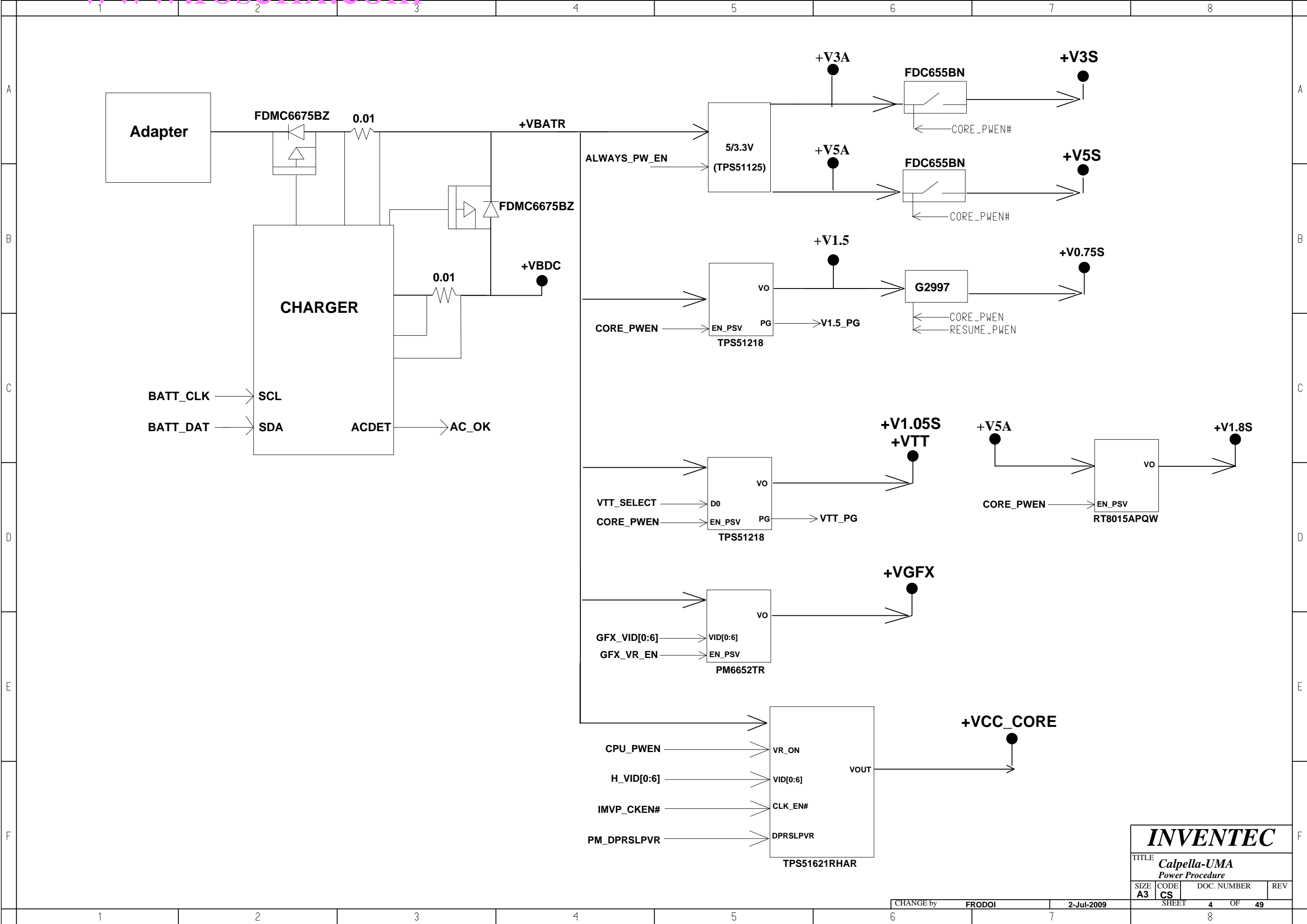
DATE	CHANGE NO.	REV

	EE	DATE	POWER	DATE	<div>INVENTEC</div> <div>TITLE <b>Calpella-UMA</b> <i>Project Name</i></div>					
DRAWER										
DESIGN										
CHECK										
RESPONSIBLE										
SIZE = 3					VER :		SIZE A3	CODE CS	DOC. NUMBER	REV
FILE NAME : XXXX-XXXXXX-XX					SHEET 1 OF 49					
P/N	XXXXXXXXXXXX									

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25. PCH-2	
26. PCH-3	
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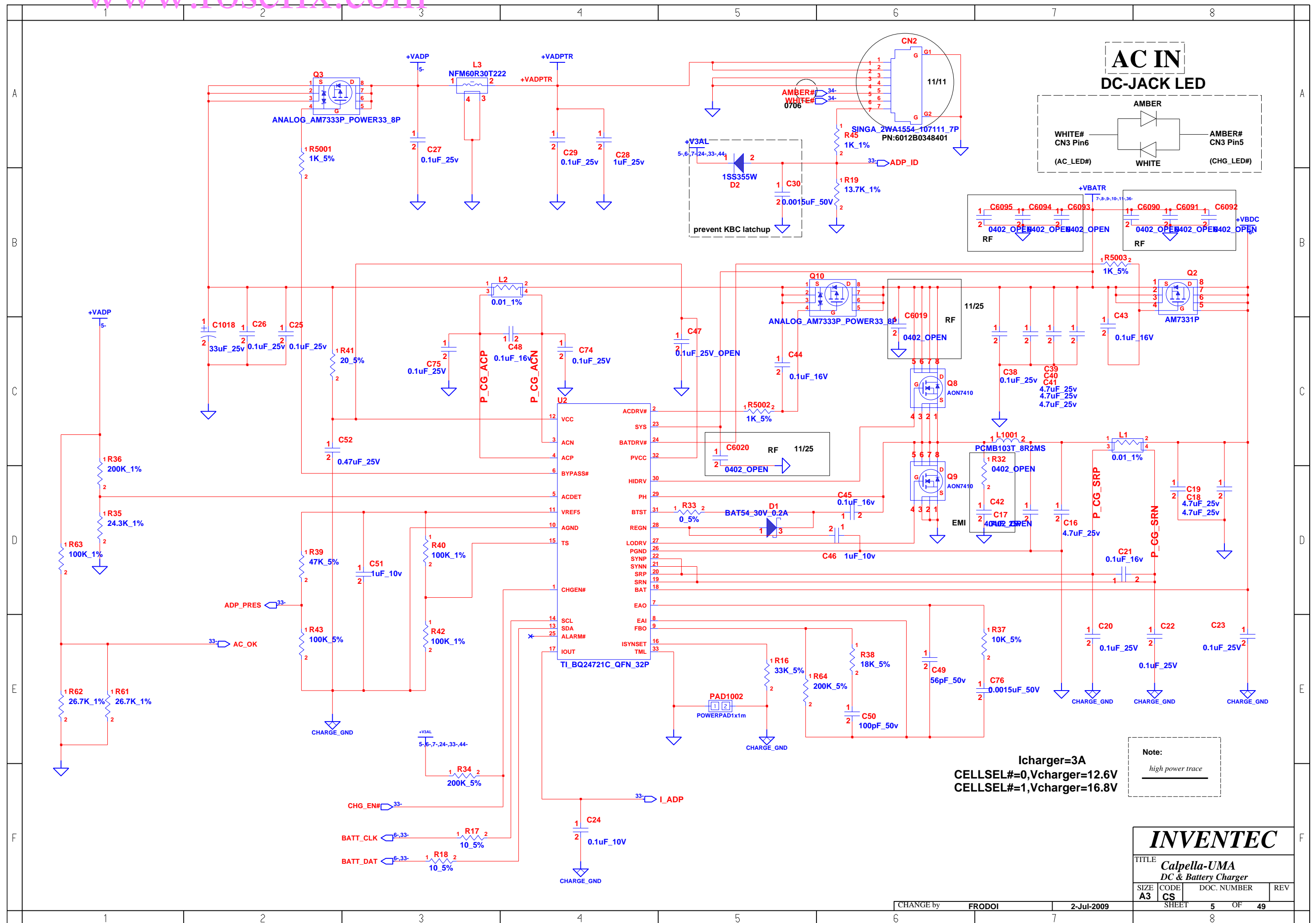


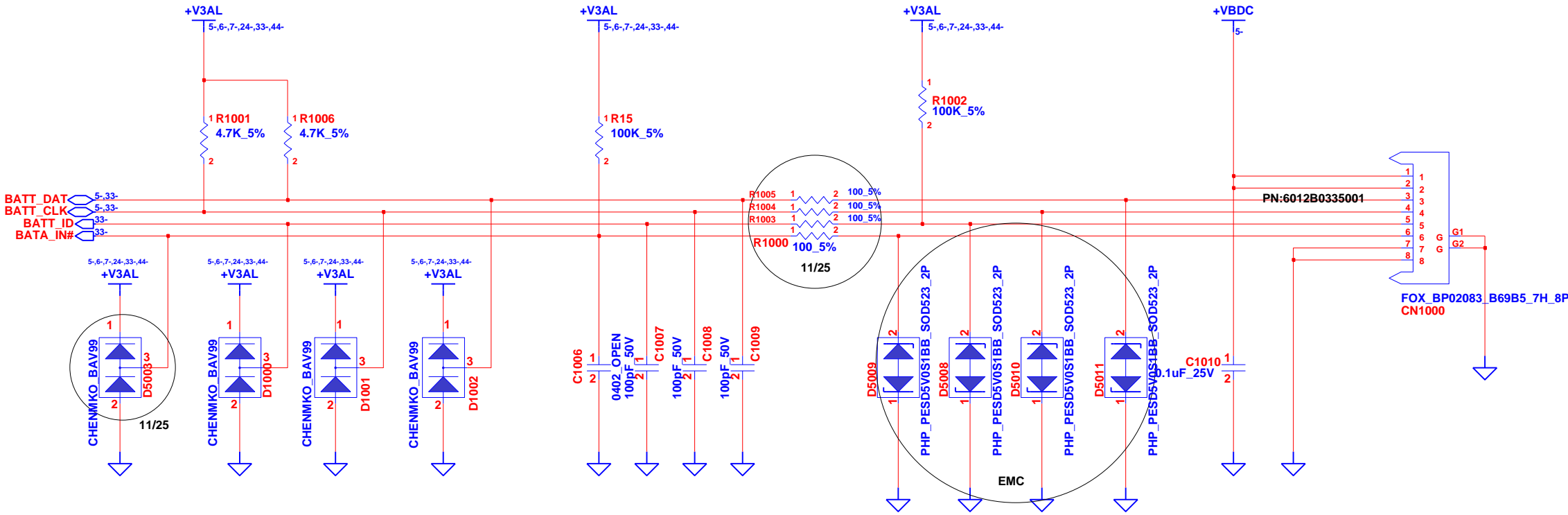
**INVENTEC**

TITLE **Calpella-UMA**  
Power Procedure

SIZE	CODE	DOC. NUMBER	REV
A3	CS	SHEET 4 OF 49	

CHANGE by **FRODOI** 2-Jul-2009





**INVENTEC**

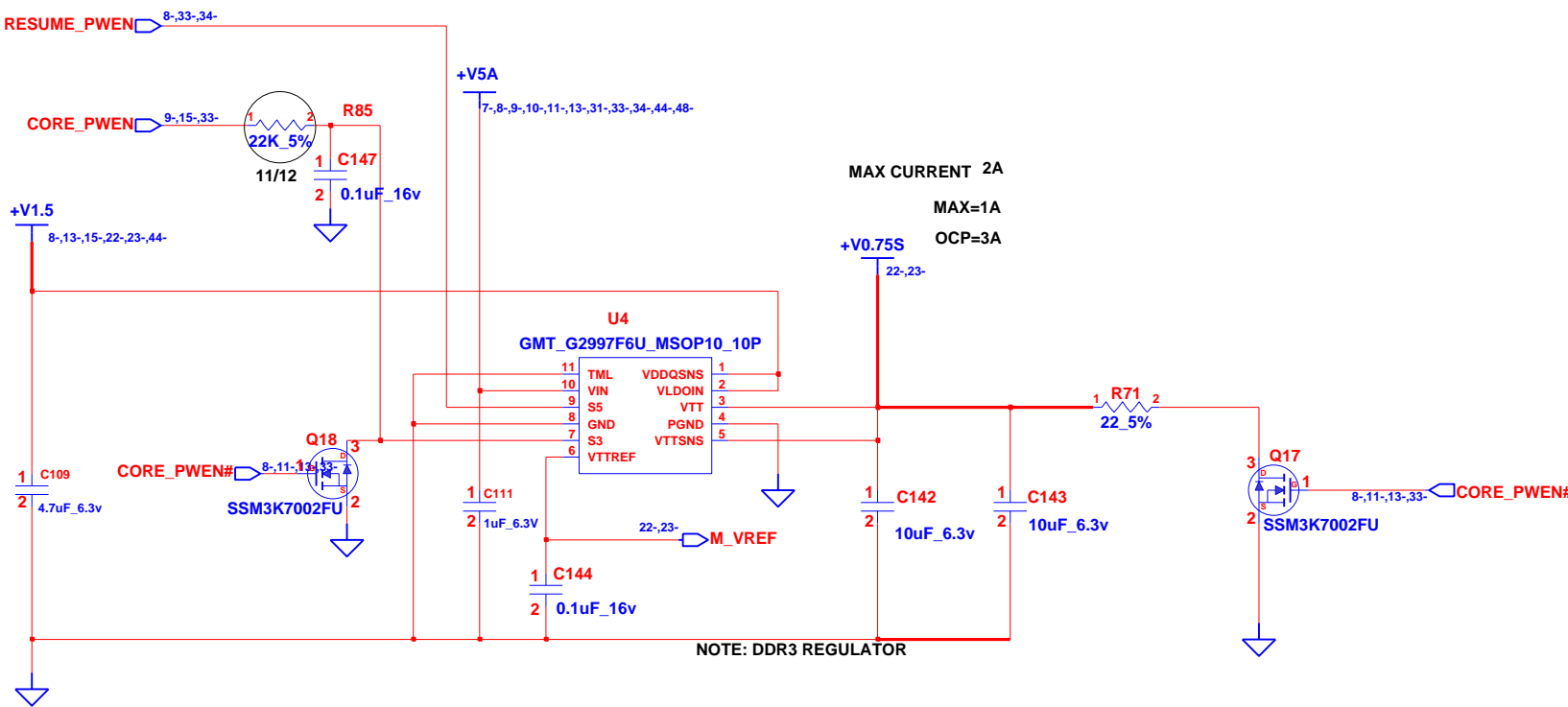
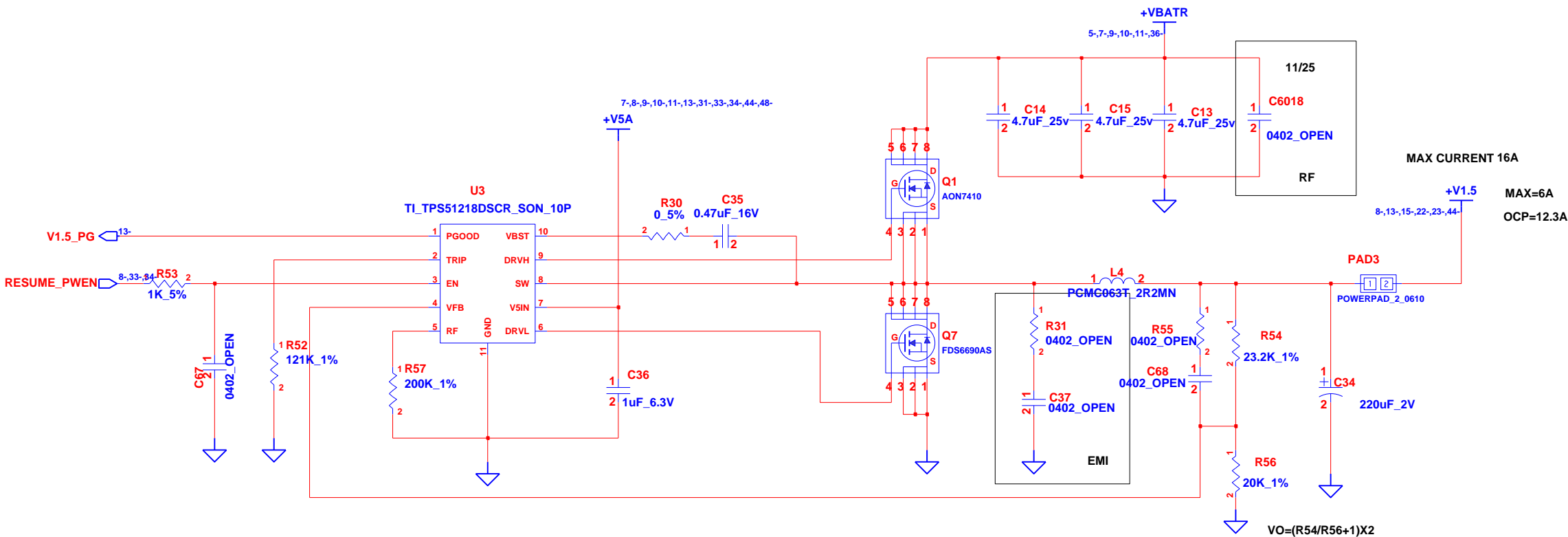
TITLE **Calpella-UMA**  
**Battery CONN**

SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER	REV
SHEET <b>6</b>		OF <b>49</b>	

CHANGE by **FRODOI** 18-Jun-2009



8



NOTE: DDR3 REGULATOR

**INVENTEC**

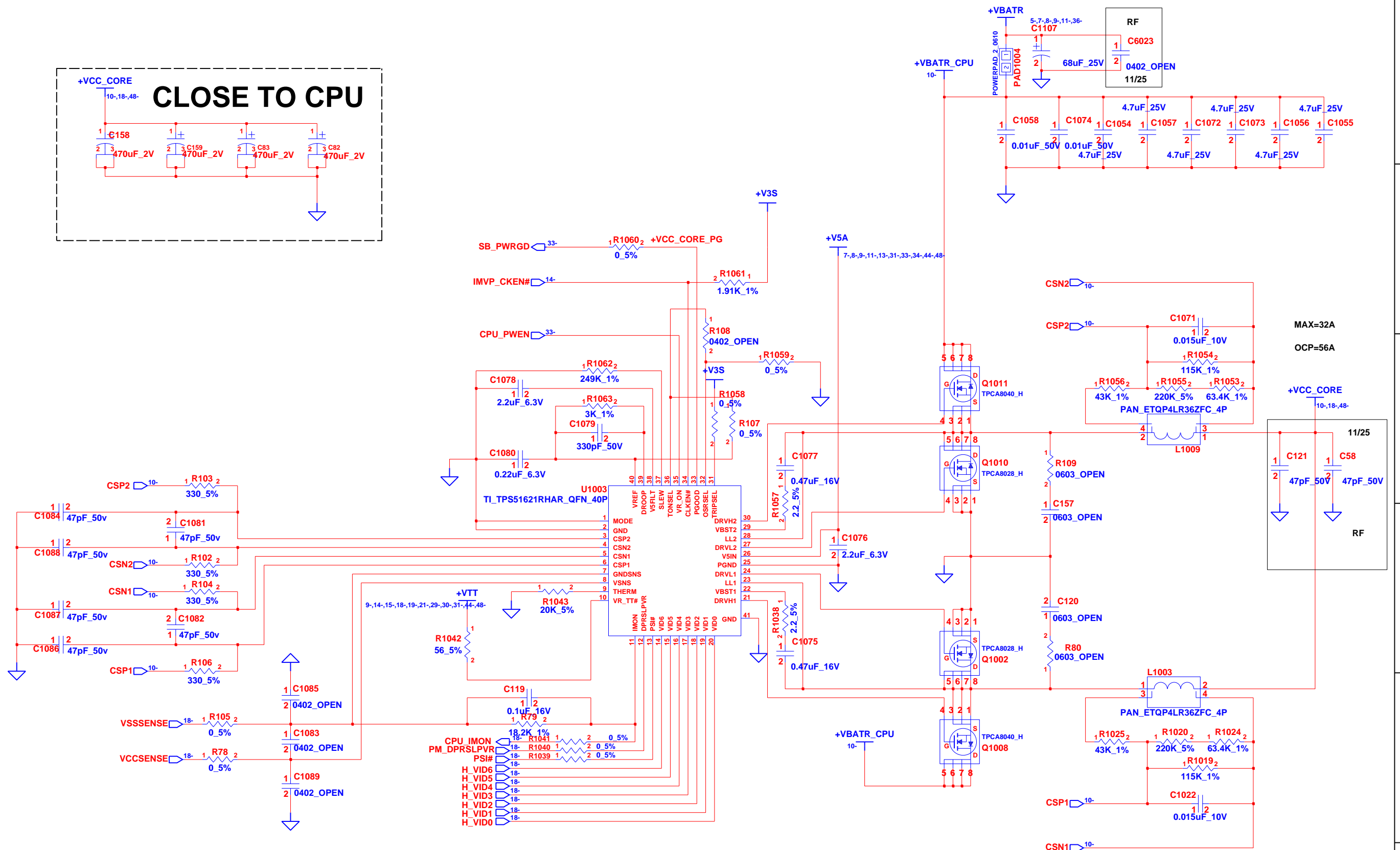
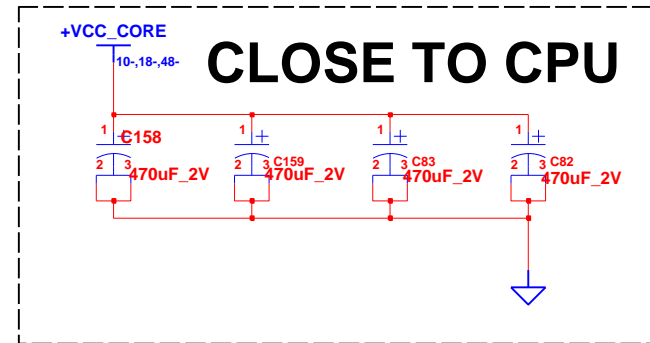
TITLE **Calpella-UMA**  
+V1.5 & +V0.75

SIZE	CODE	DOC. NUMBER	REV
A3	CS	8	49

CHANGE by **FRODOI** 30-Jul-2009







**INVENTEC**

TITLE **Calpella-UMA**  
**+VCC\_CORE**

SIZE	CODE	DOC. NUMBER	REV
A3	CS	10 OF 49	REV

CHANGE by **FRODOI** 29-Jun-2009



	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F
	1	2	3	4	5	6	7	8	

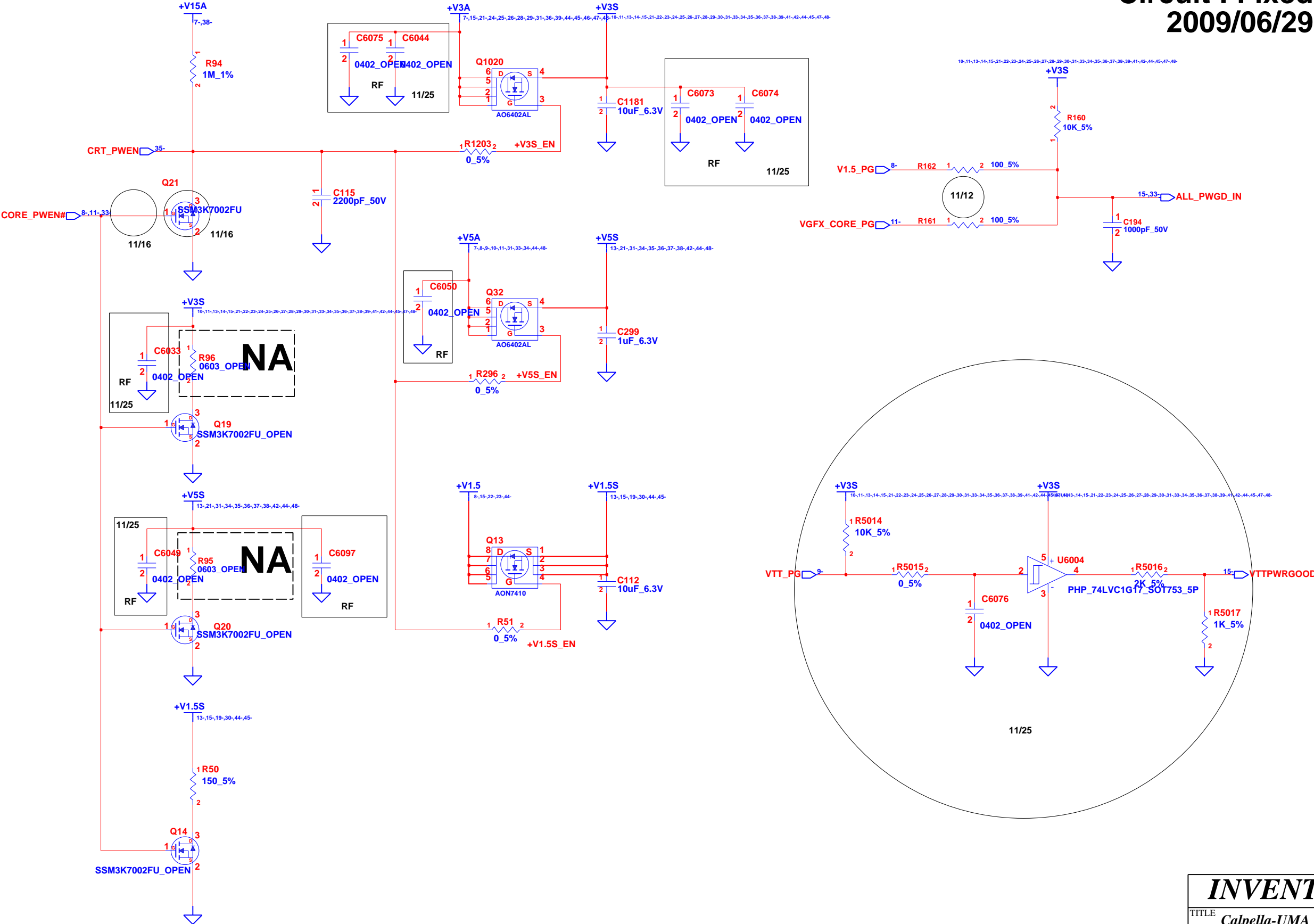
INVENTEC

TITLE Calpella-UMA  
Reserve Page

SIZE	CODE	DOC. NUMBER	REV
A3	CS	SHEET 12 OF 49	

CHANGE by FRODOI 23-Jul-2009

Circuit : Fixed  
2009/06/29



**INVENTEC**

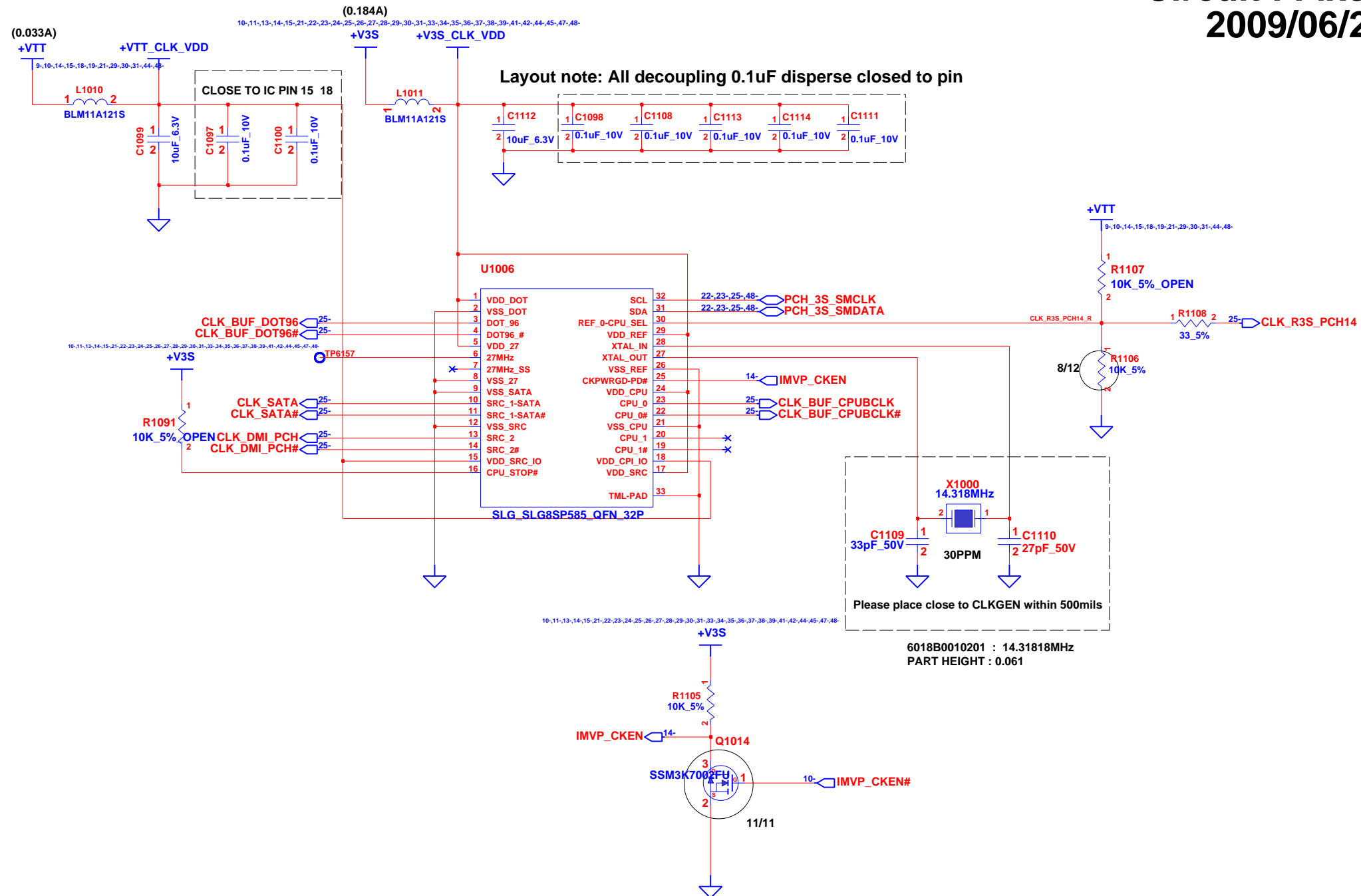
TITLE **Calpella-UMA**  
+V5S & +V3S

SIZE	CODE	DOC. NUMBER	REV
A3	CS		

CHANGE by **FRODOI** 18-Jun-2009

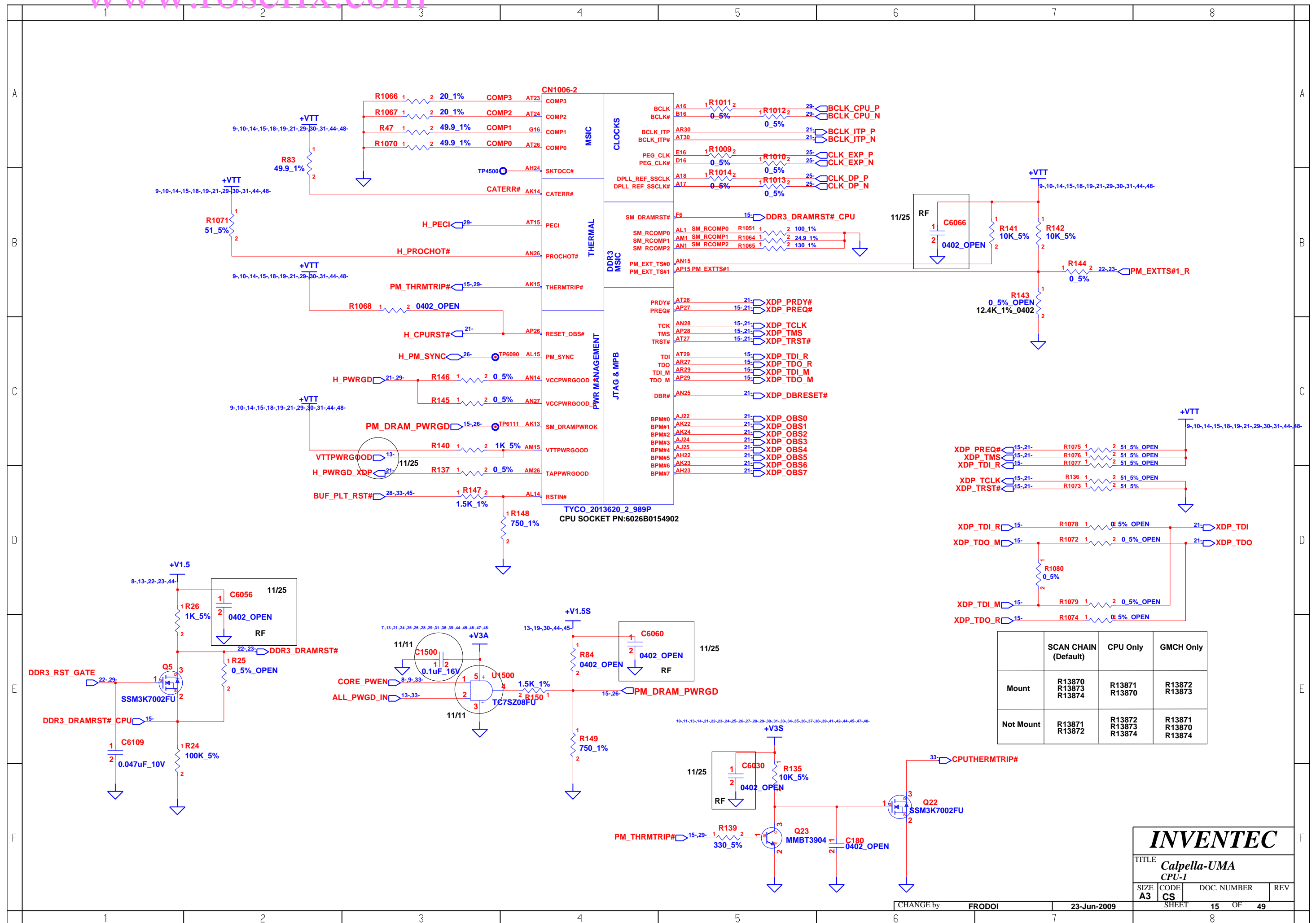
SHEET 13 OF 49

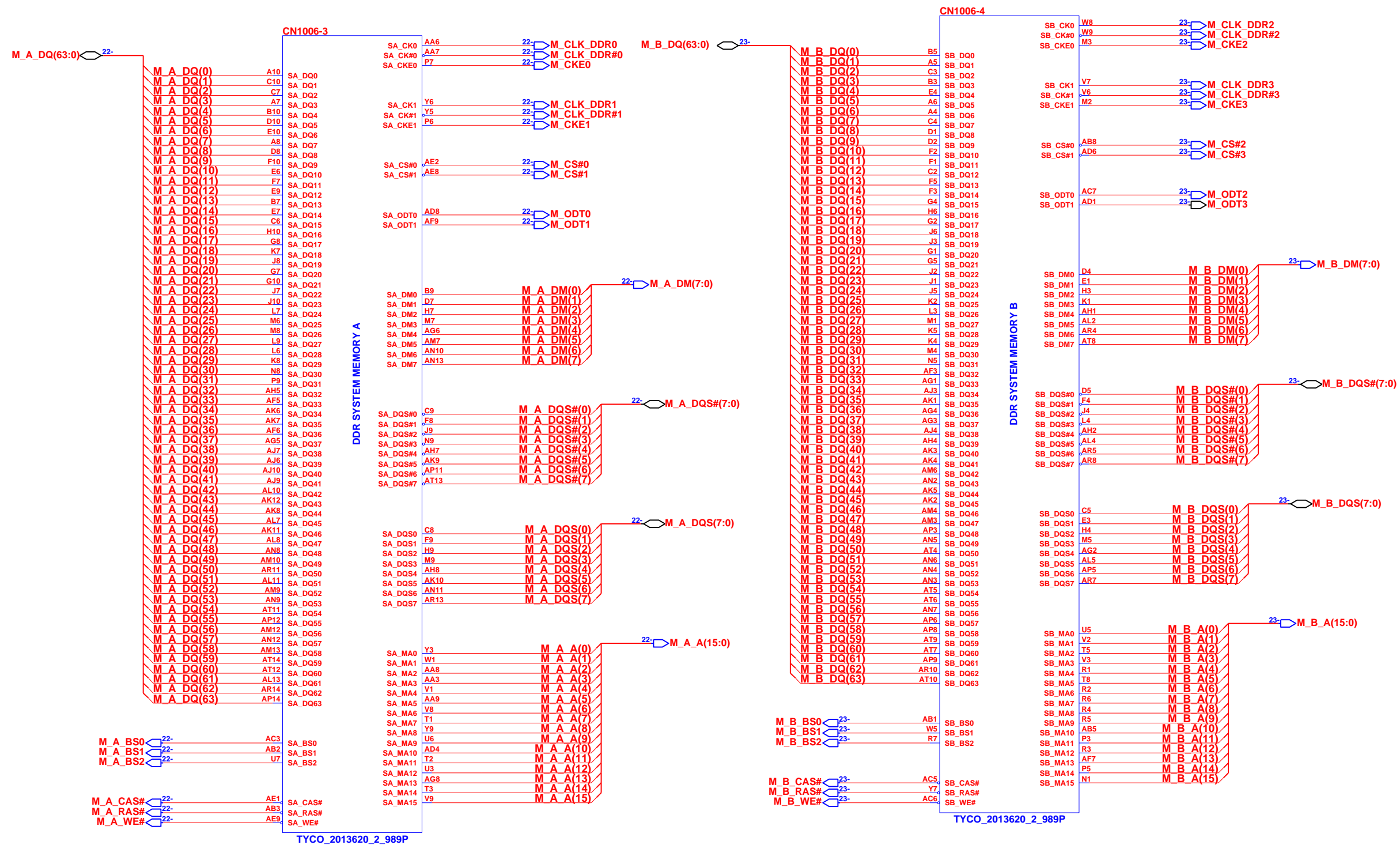
Circuit : Fixed  
2009/06/29



INVENTEC			
TITLE Calpella-UMA CLK GEN			
SIZE A3	CODE CS	DOC. NUMBER	REV
SHEET 14		OF 49	

CHANGE by FRODOI 18-Jun-2009

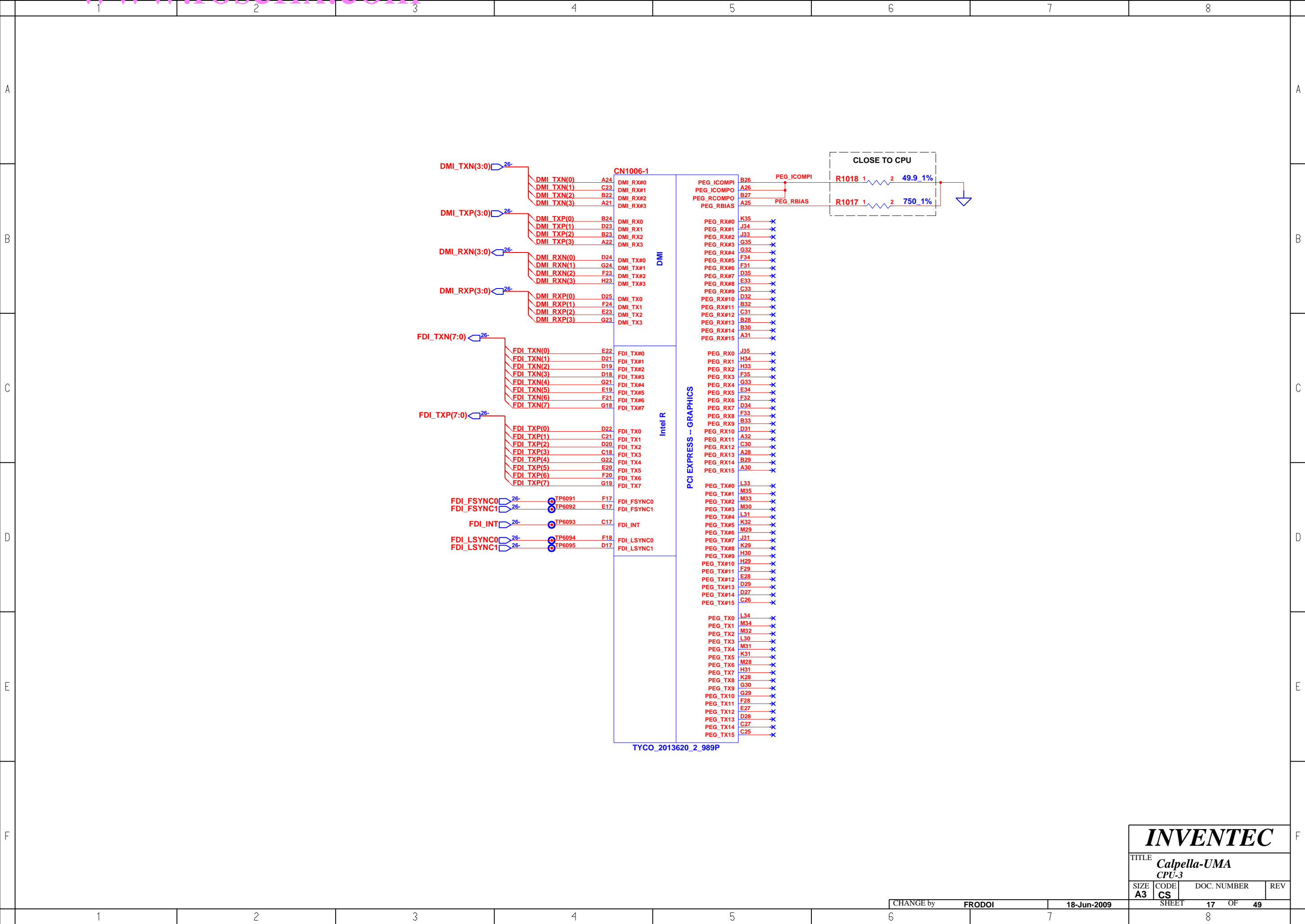


**INVENTEC**TITLE  
**Calpella-UMA**  
**CPU-2**

SIZE	CODE	DOC. NUMBER	REV
A3	CS	16 OF 49	

CHANGE by **FRODOI** 16-Jul-2009





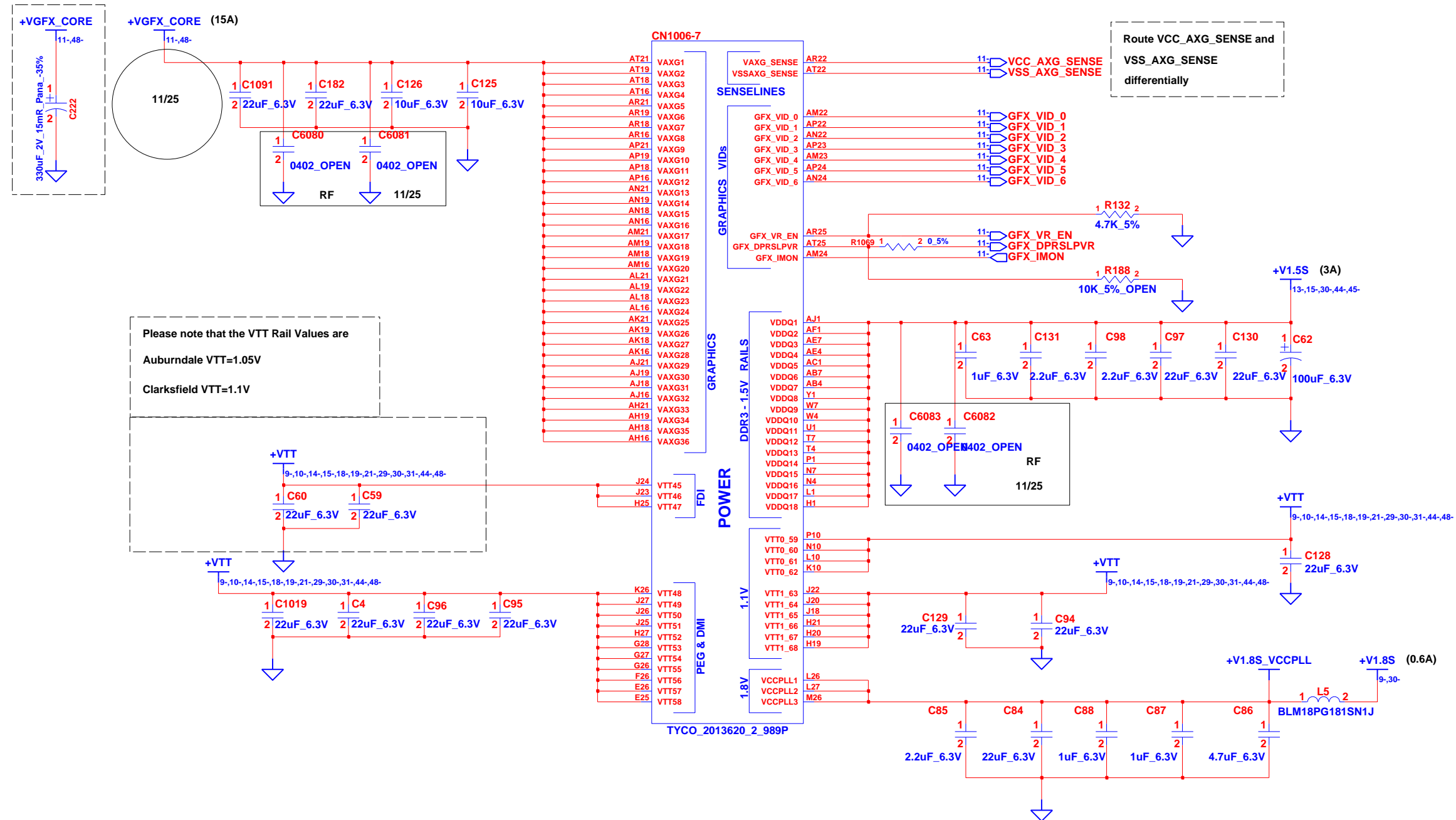
INVENTEC

TITLE Calpella-UMA  
CPU-3

SIZE	CODE	DOC. NUMBER	REV
A3	CS	17 OF 49	

CHANGE by FRODOI 18-Jun-2009



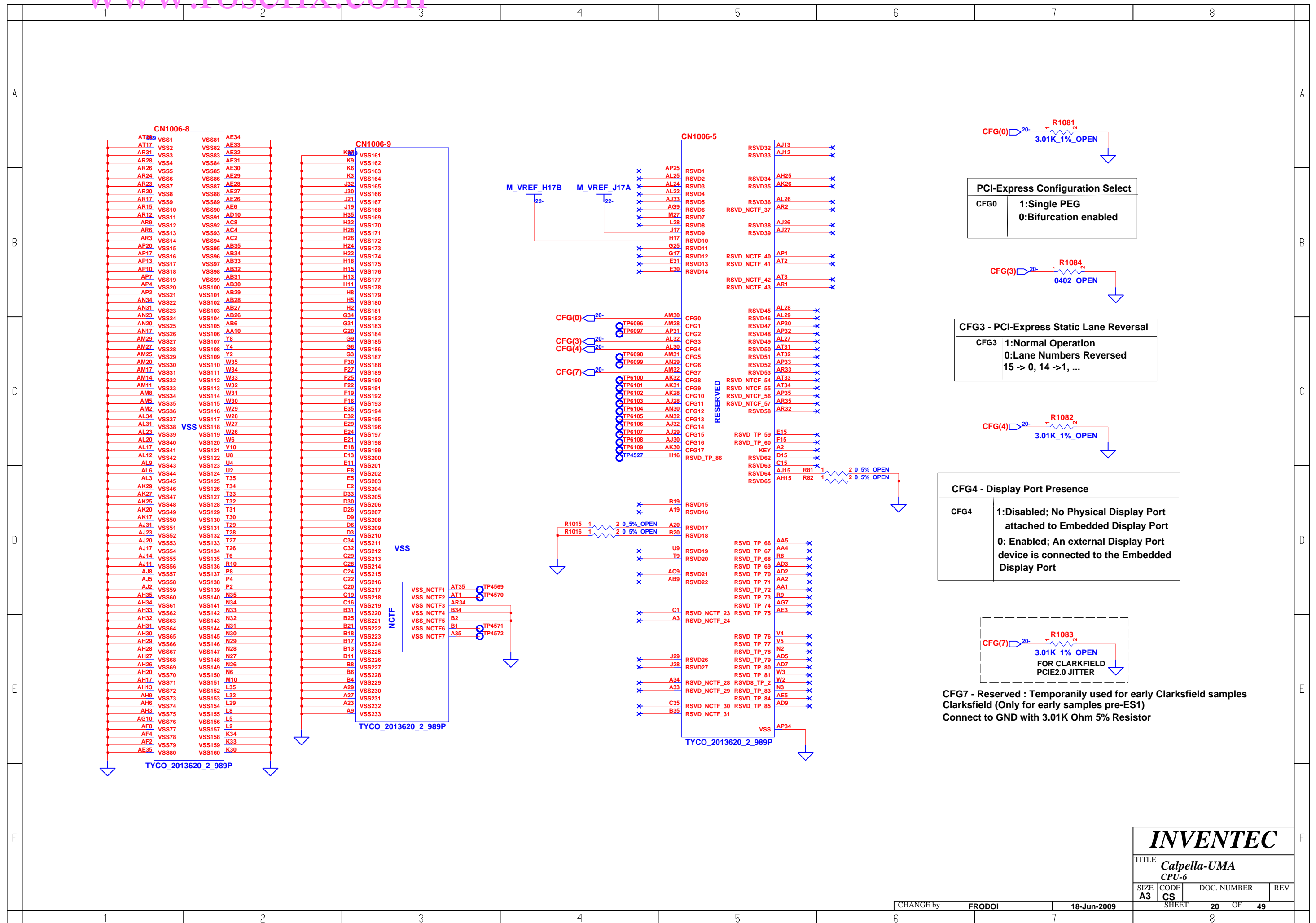


**INVENTEC**

TITLE **Calpella-UMA**  
CPU-5

SIZE	CODE	DOC. NUMBER	REV
A3	CS	19 OF 49	

CHANGE by **FRODOI** 18-Jun-2009

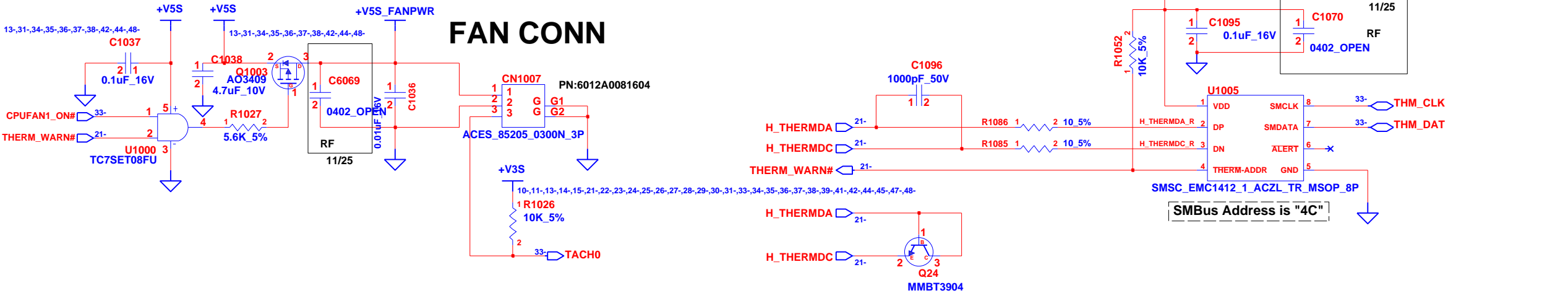


INVENTEC

TITLE  
Calpella-UMA  
CPU-6SIZE CODE DOC. NUMBER REV  
A3 CS SHEET 20 OF 49

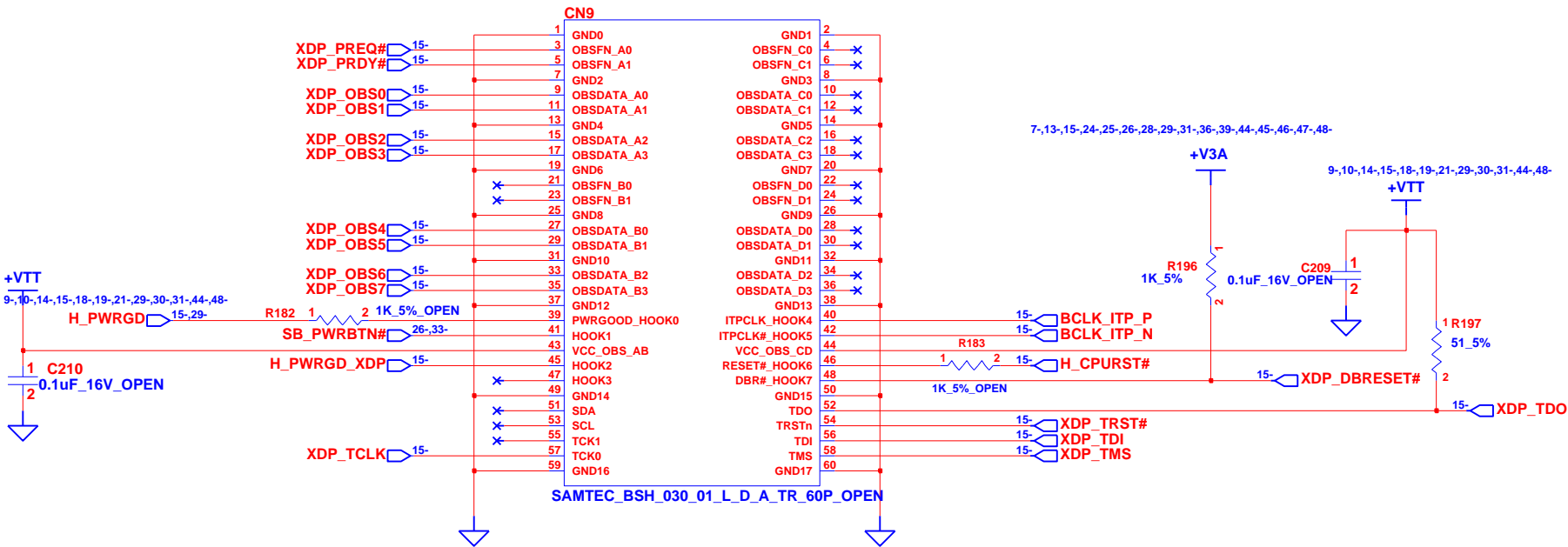
CHANGE by FRODOI 18-Jun-2009

Circuit : Fixed  
2009/06/29



NA

XDP CONNECTOR

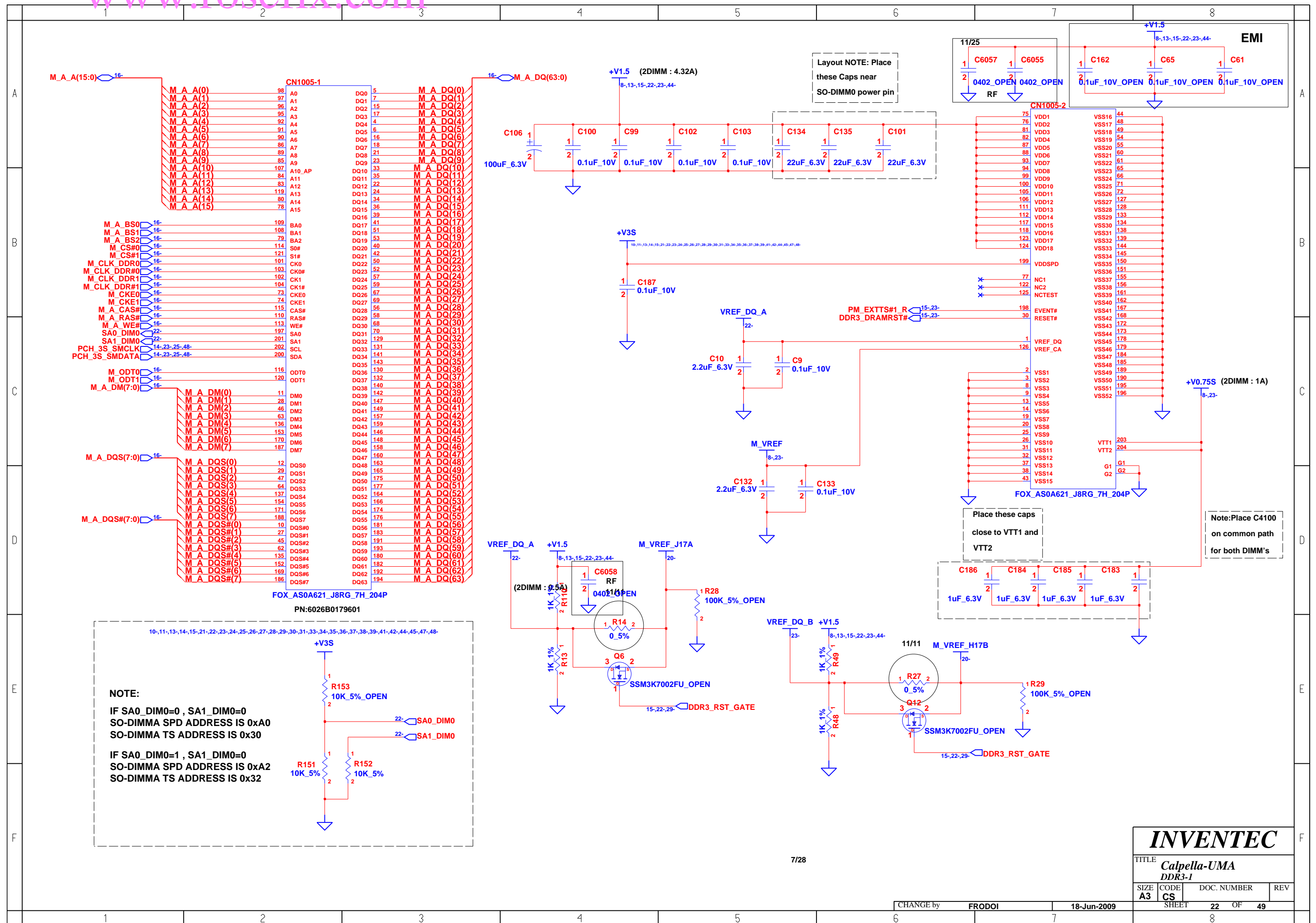


INVENTEC

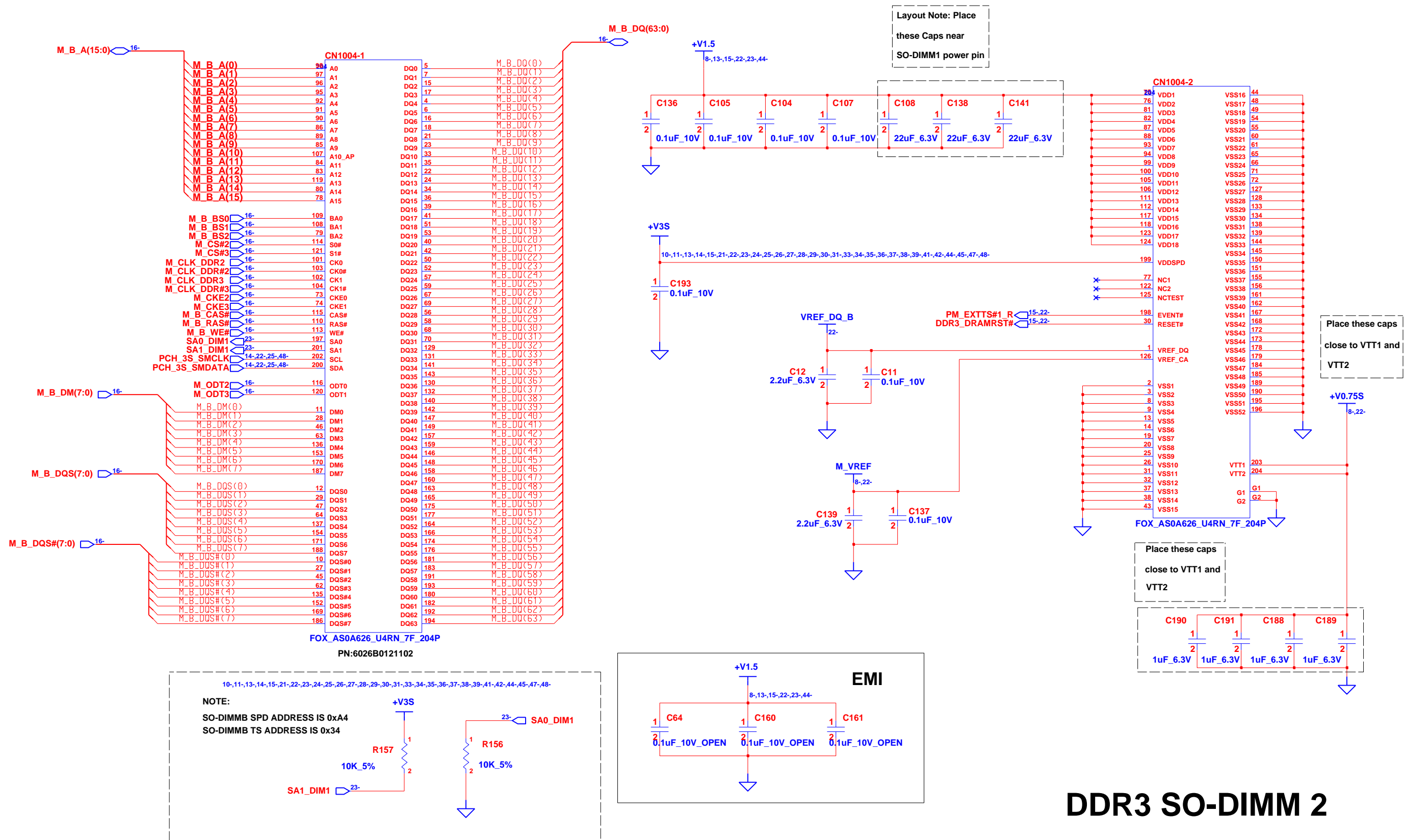
TITLE Calpella-UMA  
Thermal, Fan & XDP

SIZE CODE DOC. NUMBER REV  
A3 CS 21 OF 49

CHANGE by FRODOI 18-Jun-2009

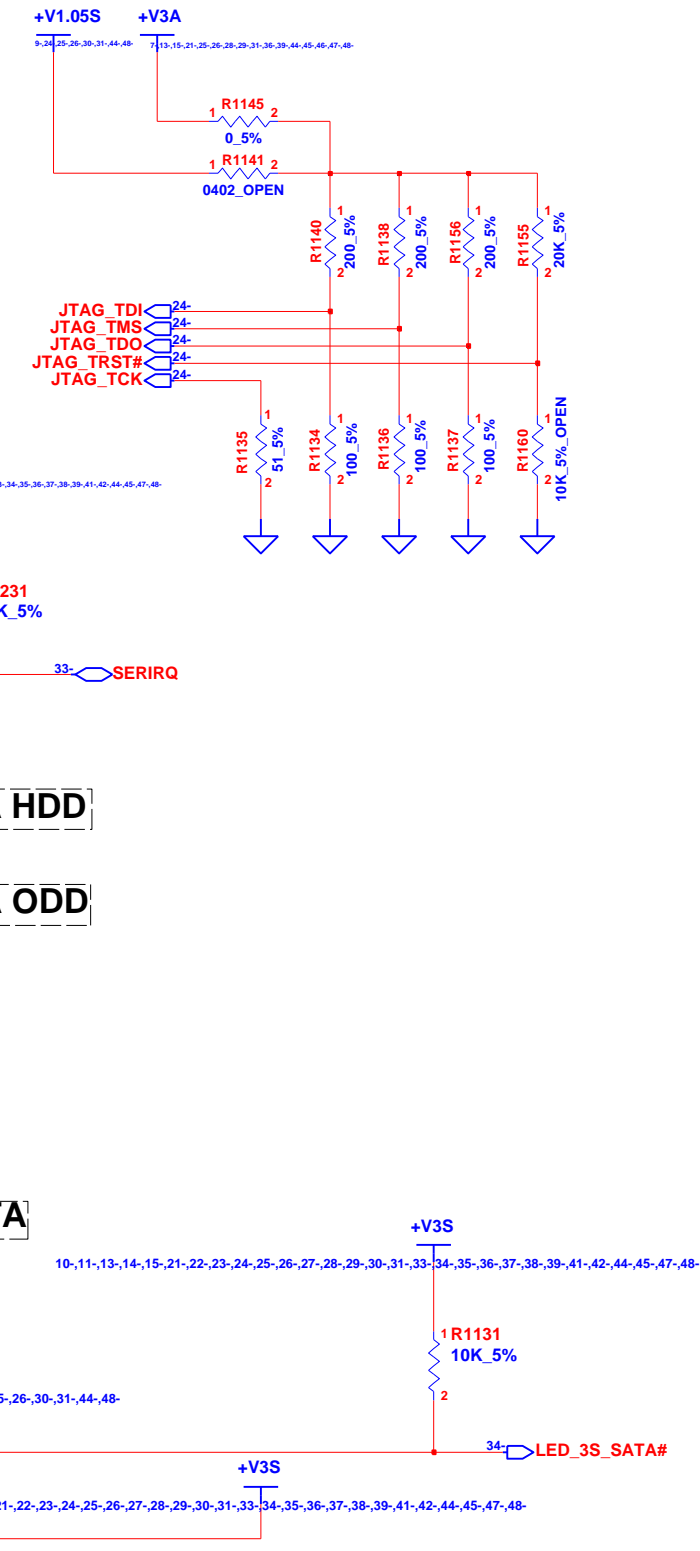
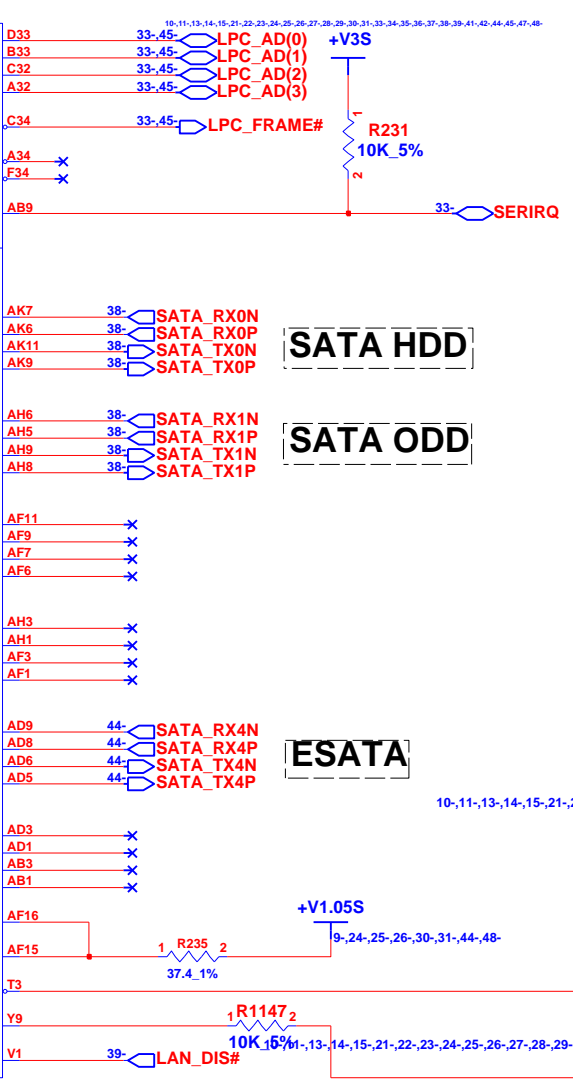
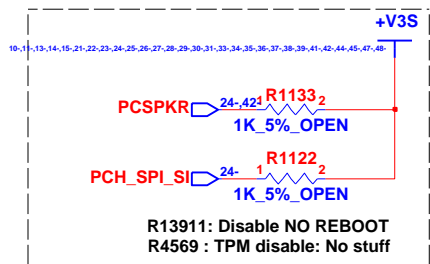




**INVENTEC**TITLE  
**Calpella-UMA  
DDR3-2**

SIZE	CODE	DOC. NUMBER	REV
A3	CS	23 OF 49	

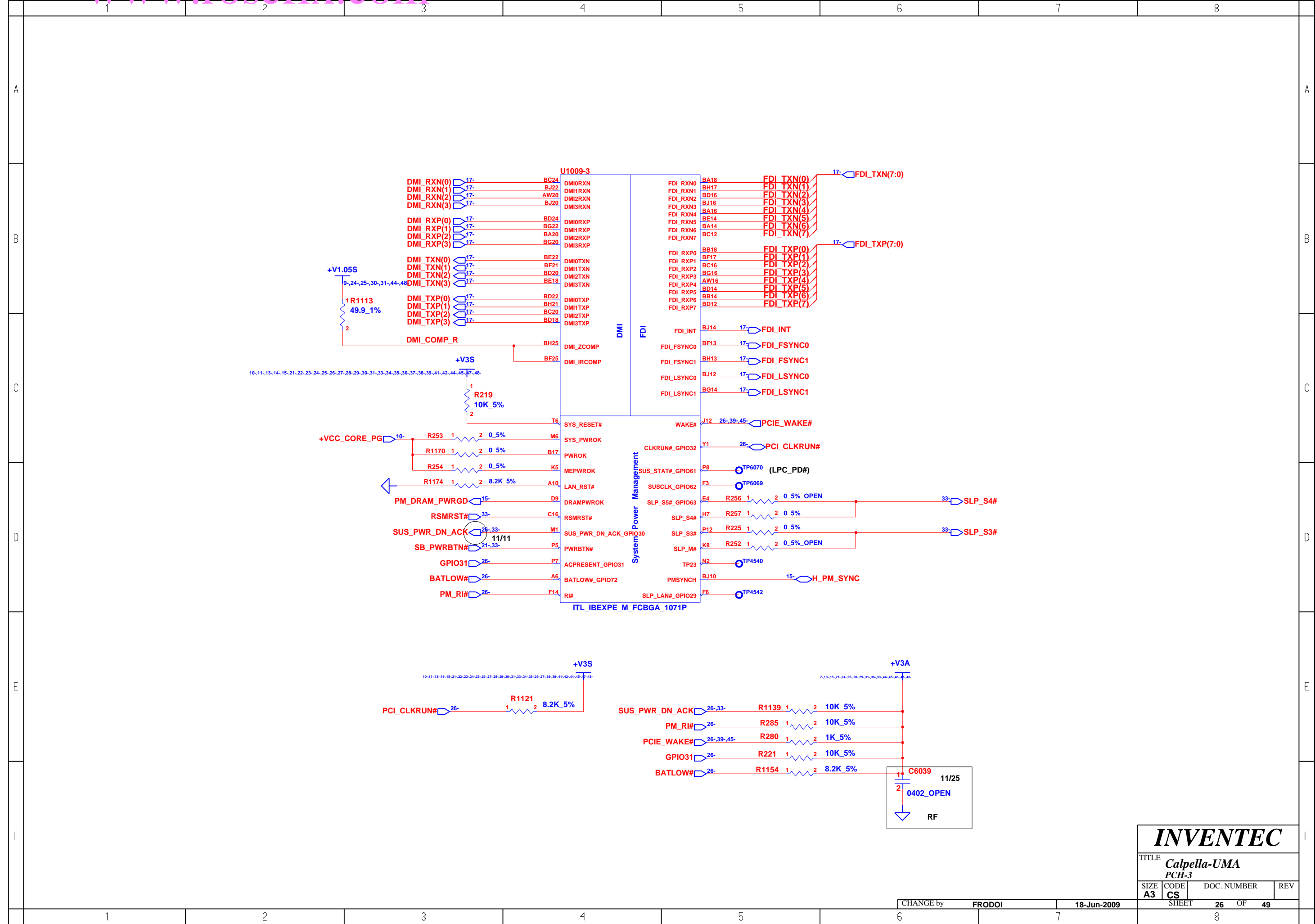
CHANGE by FRODOI 18-Jun-2009



CHANGE by	FRODOI	24-Jun-2009
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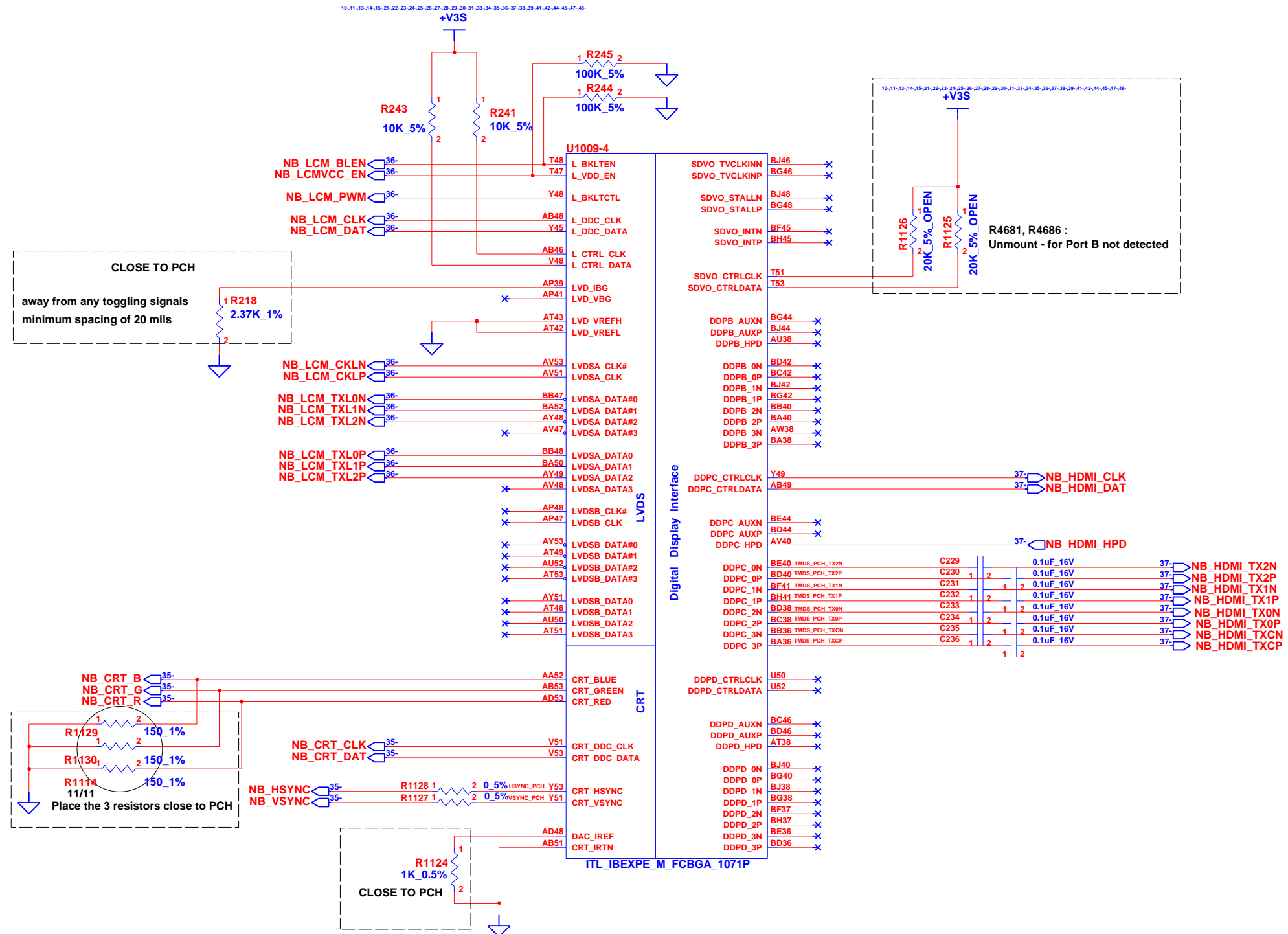


INVENTEC

TITLE Calpella-UMA  
PCH-3

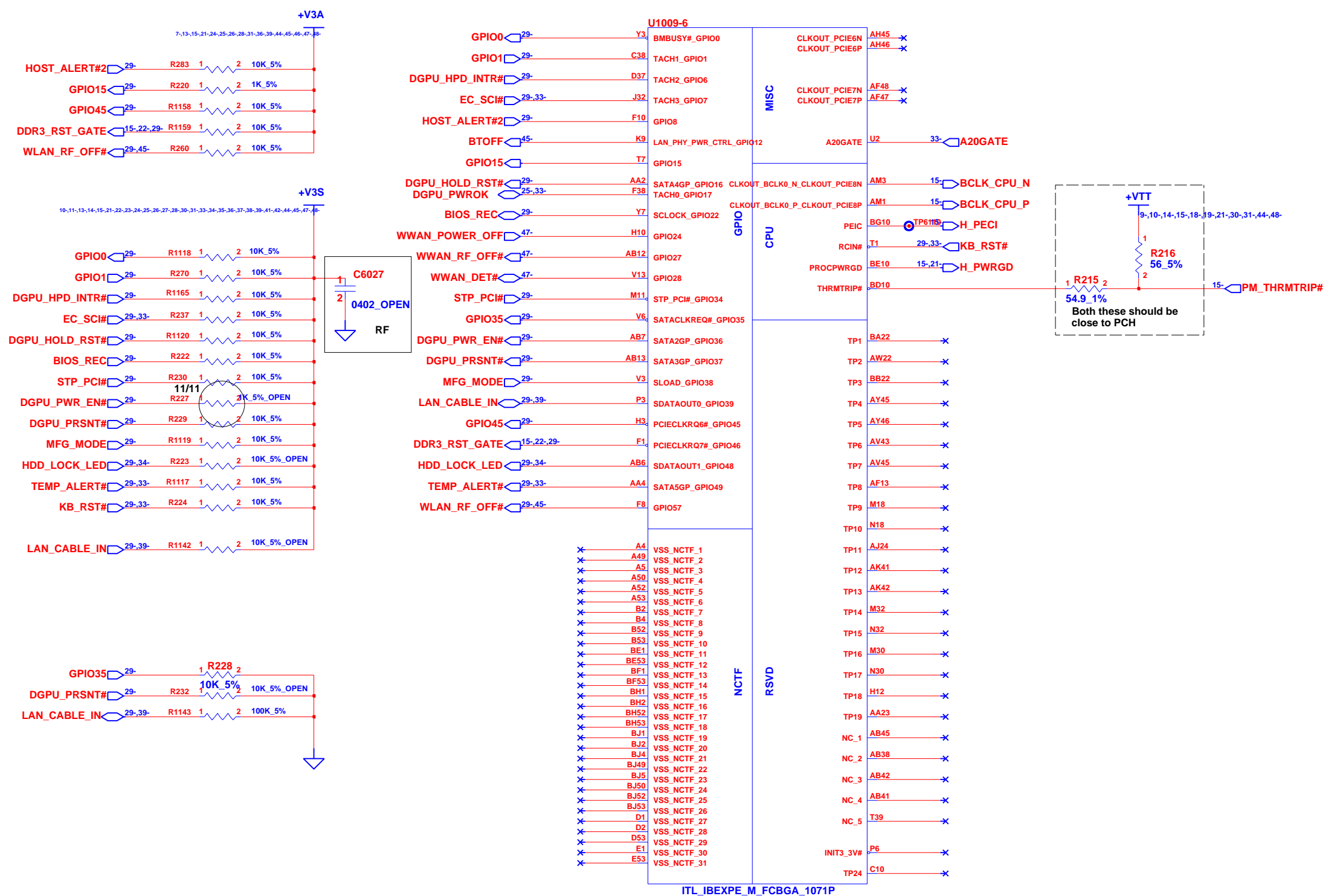
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A3	CS	26	49

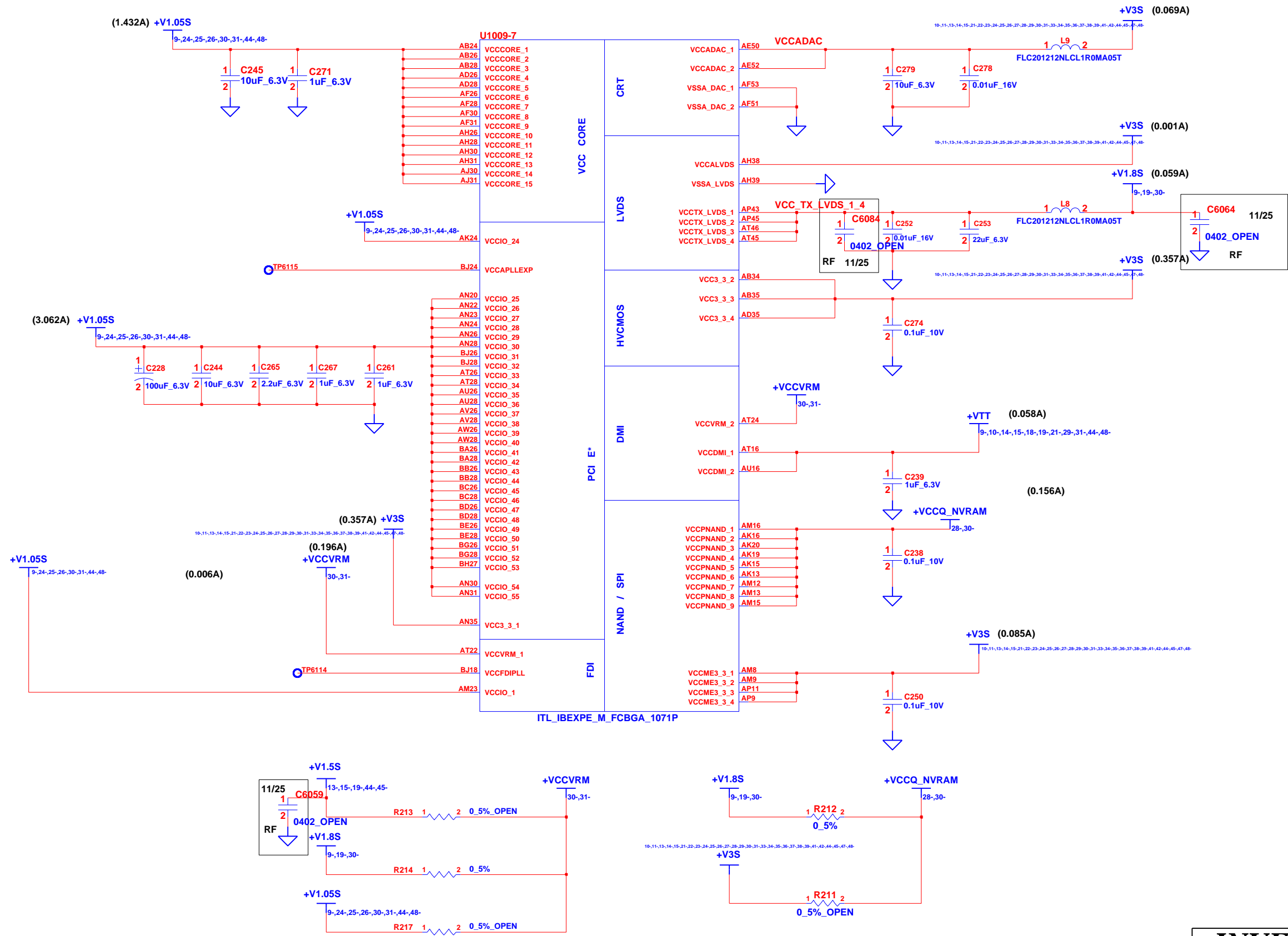
CHANGE by FRODOI 18-Jun-2009





CHANGE by	FRODOJ	18-Jun-2009
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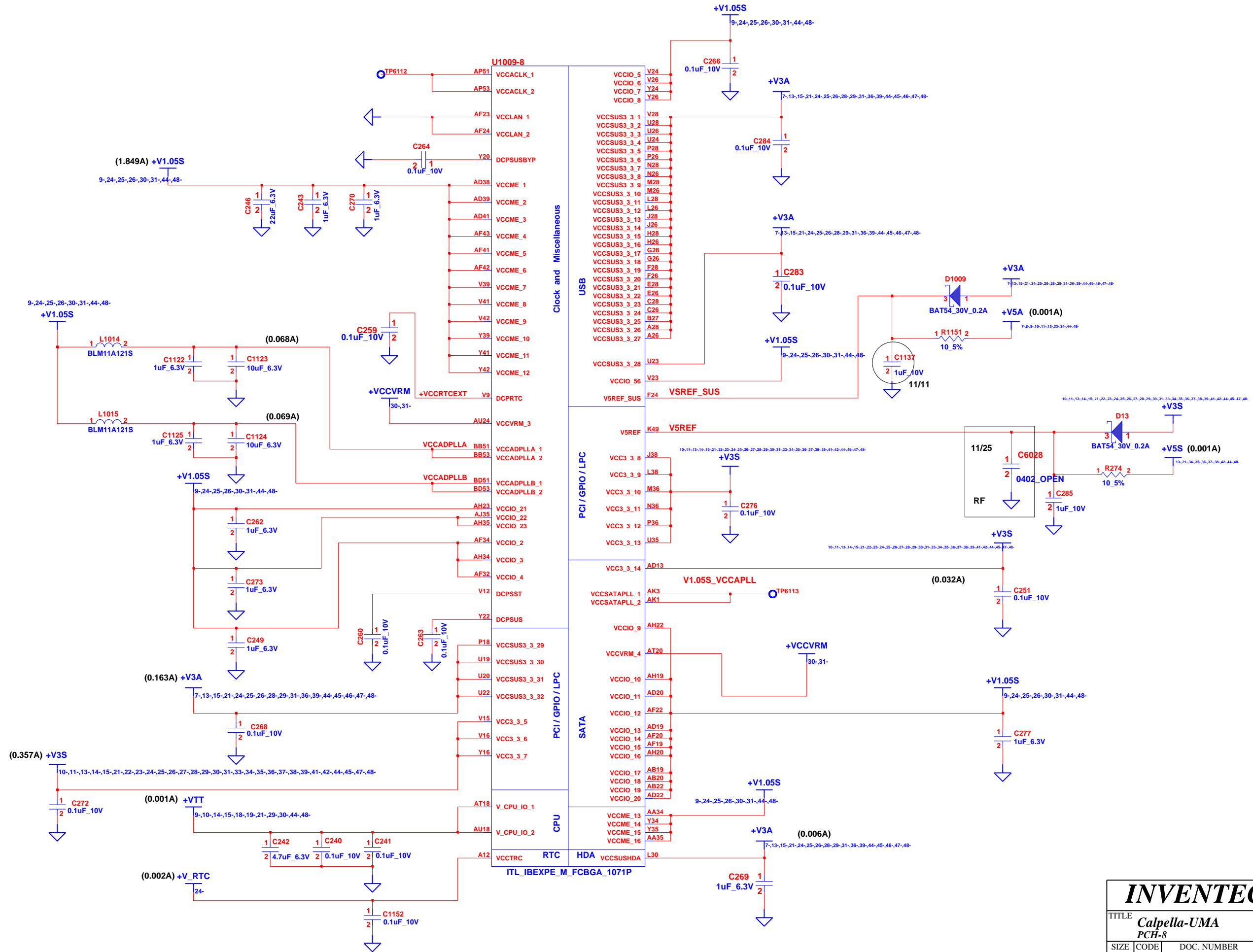




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TITLE Calpella-UMA PCH-7			
SIZE A3	CODE CS	DOC. NUMBER	REV
SHEET 30	OF 49		

CHANGE by FRODOI 18-Jun-2009

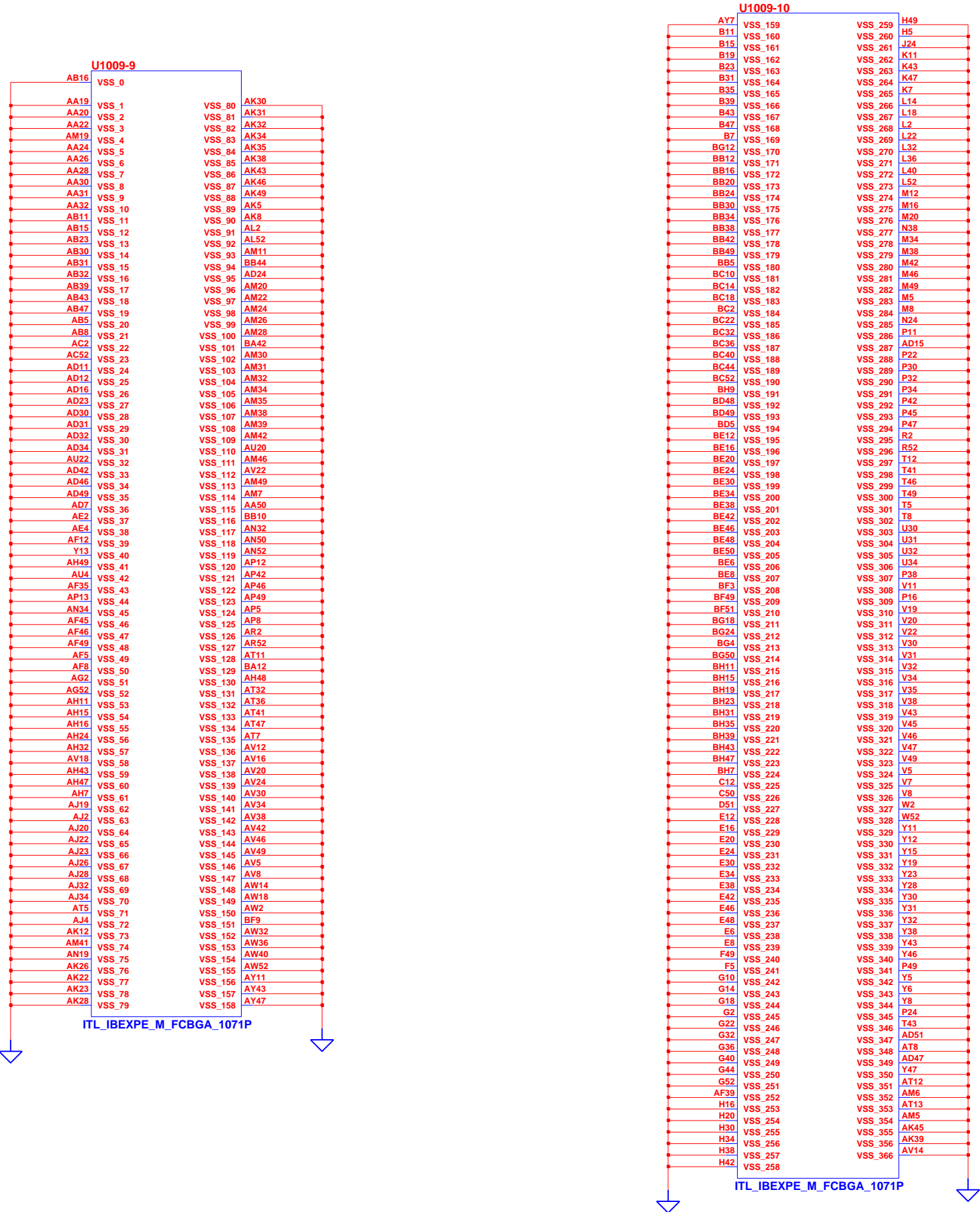




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TITLE Calpella-UMA PCH-8			
SIZE A3	CODE CS	DOC. NUMBER	REV
SHEET 31	OF 49		

CHANGE by FRODOI 18-Jun-2009

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A									
B									
C									
D									
E									
F									



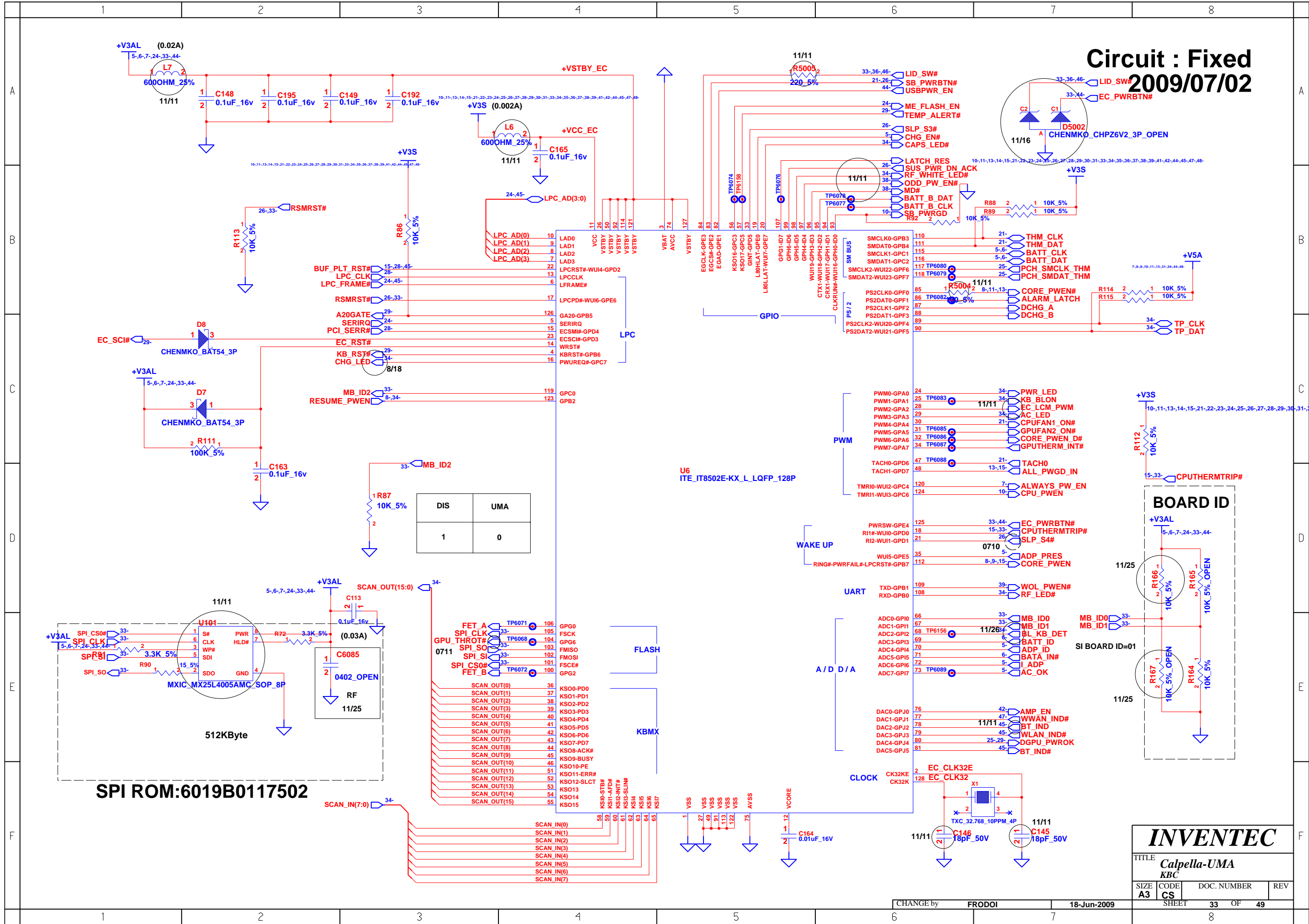
INVENTEC

TITLE Calpella-UMA  
PCH-9

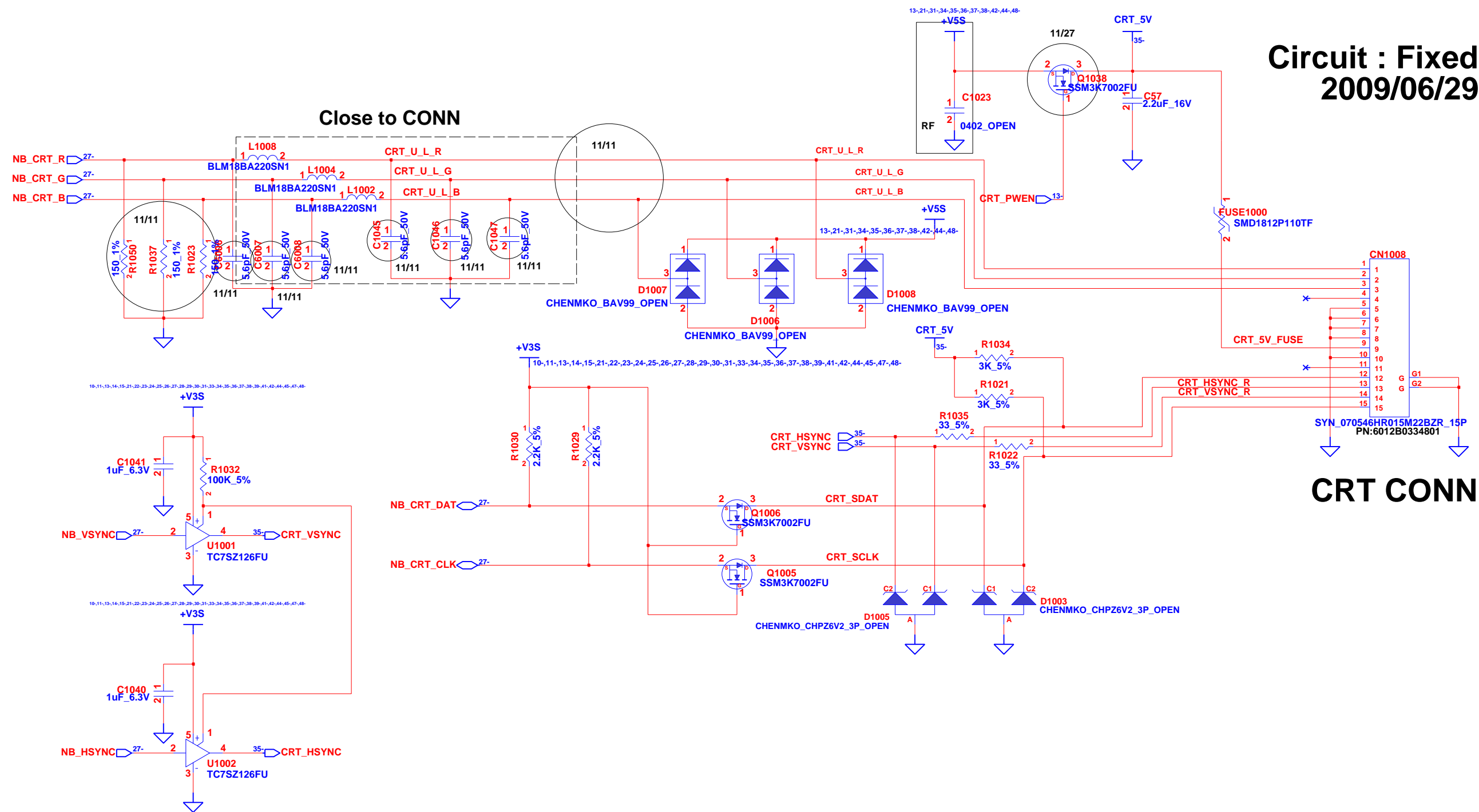
SIZE A3	CODE CS	DOC. NUMBER	REV
SHEET	32	OF	49

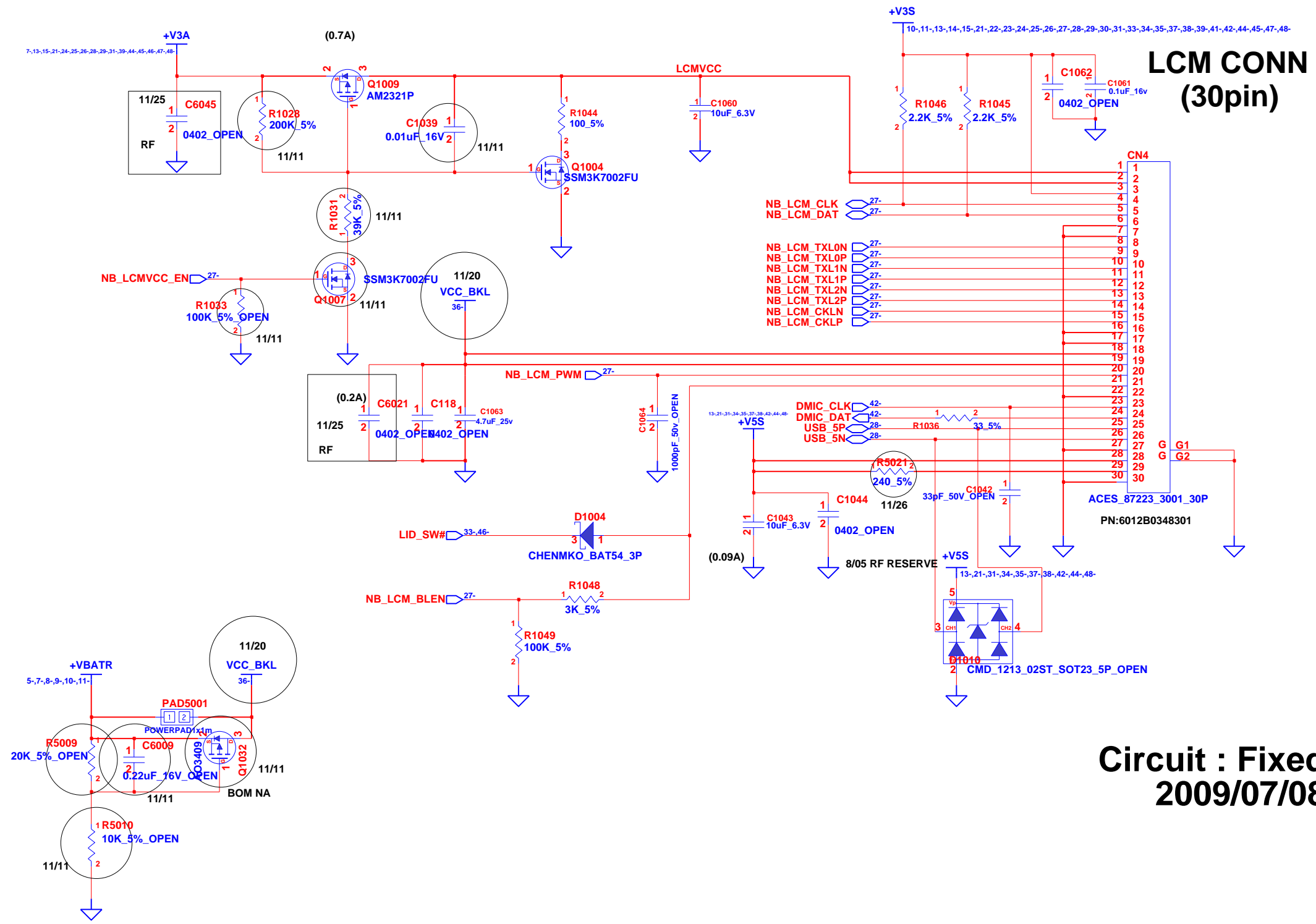
CHANGE by FRODOI 18-Jun-2009







**INVENTEC**TITLE  
**Calpella-UMA**  
**CRT**SIZE CODE DOC. NUMBER REV  
**A3 CS** SHEET 35 OF 49CHANGE by **FRODOI** 18-Jun-2009

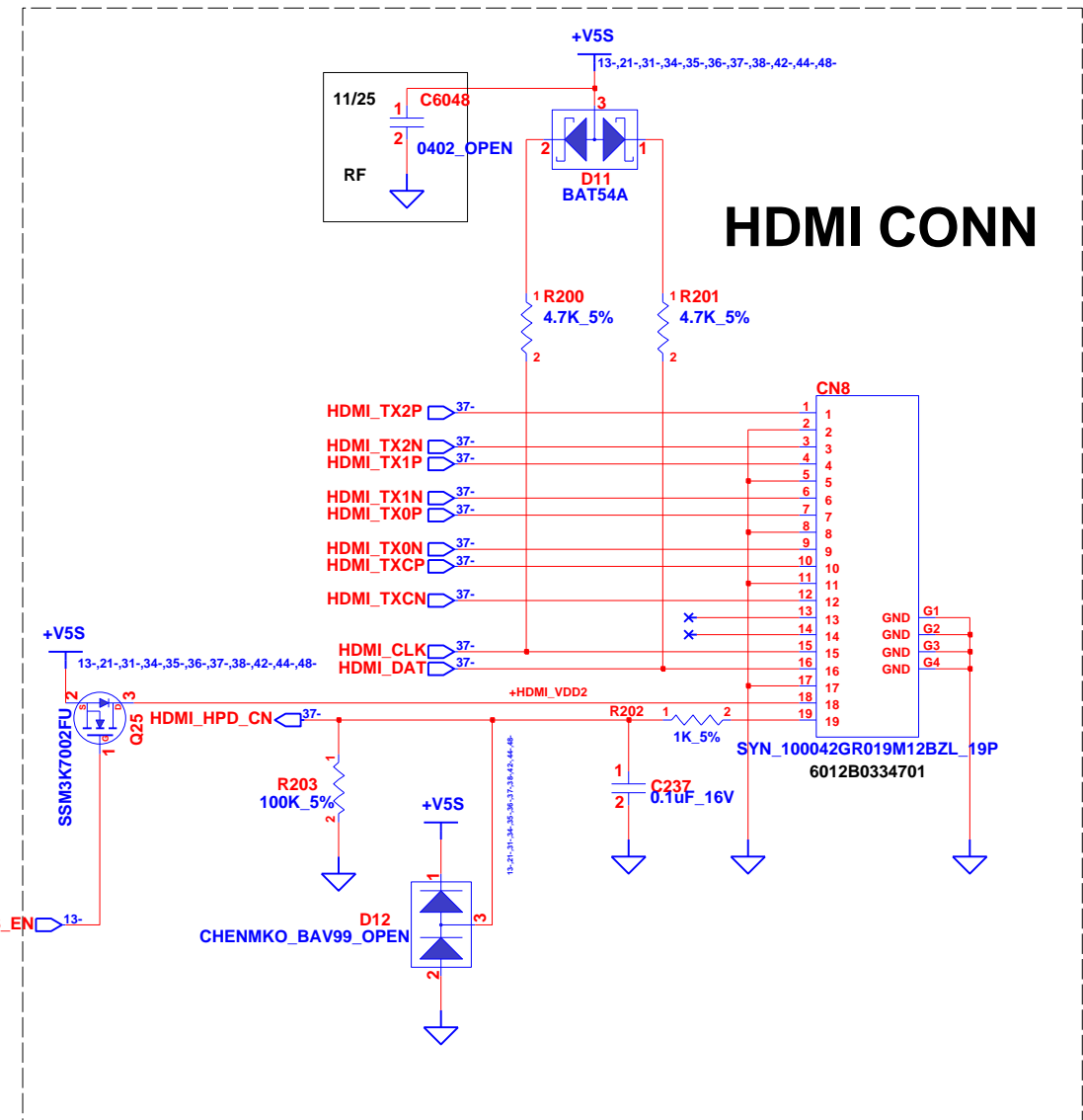
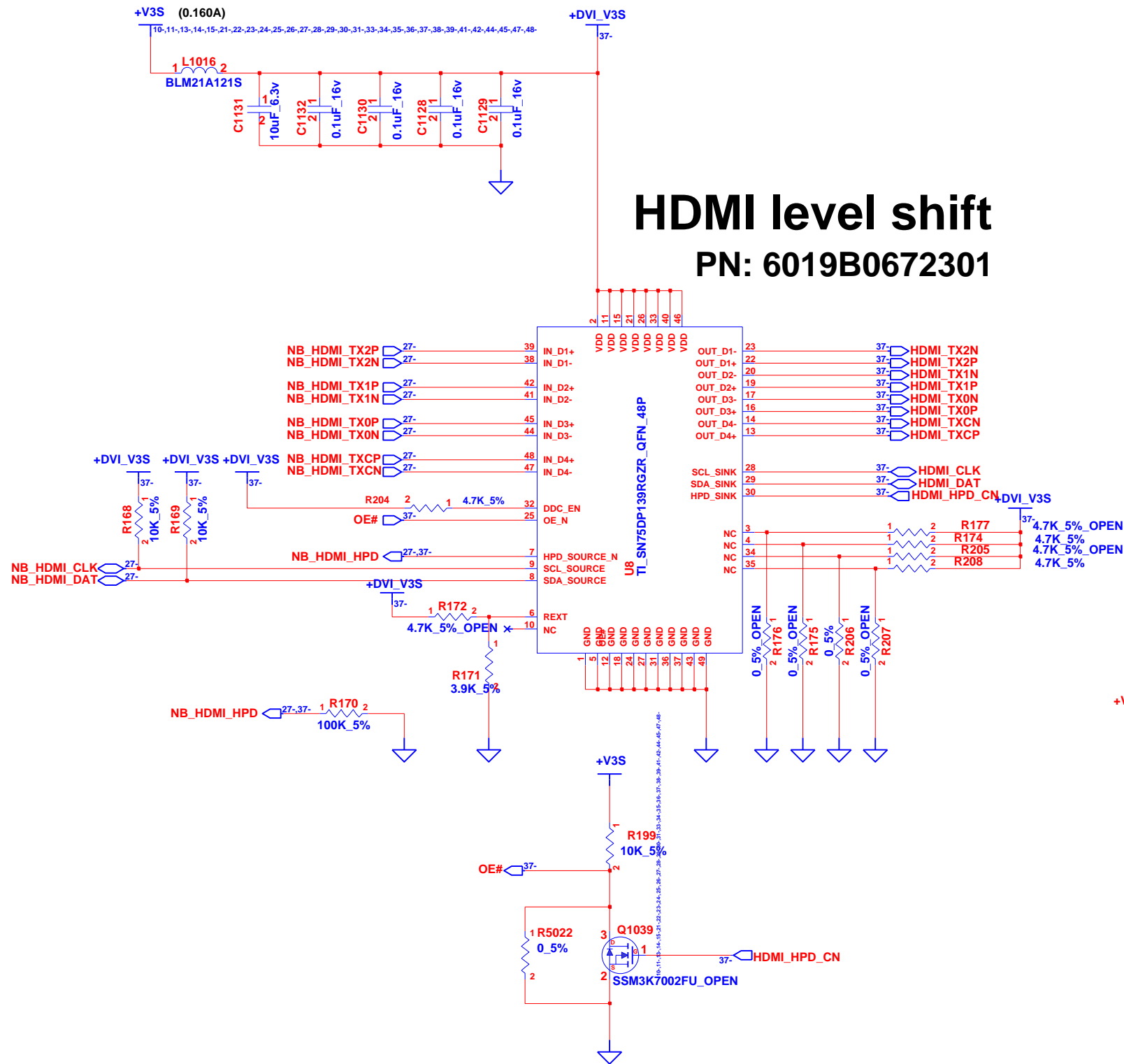


<b>INVENTEC</b>			
TITLE <b>Calpella-UMA</b>			
LCM			
SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER	REV
SHEET <b>36</b>		OF <b>49</b>	

CHANGE by **FRODOI** 26-Jun-2009

# HDMI level shift

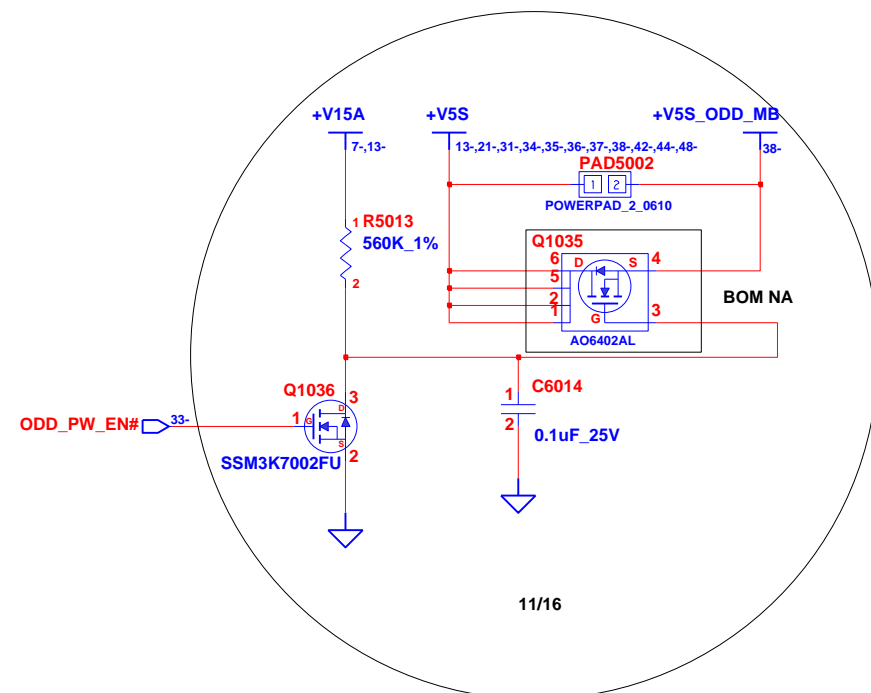
PN: 6019B0672301



INVENTEC			
TITLE Calpella-UMA HDMI Level-Shift			
SIZE A3	CODE CS	DOC. NUMBER	REV
SHEET 37		OF 49	

CHANGE by FRODOI 18-Jun-2009

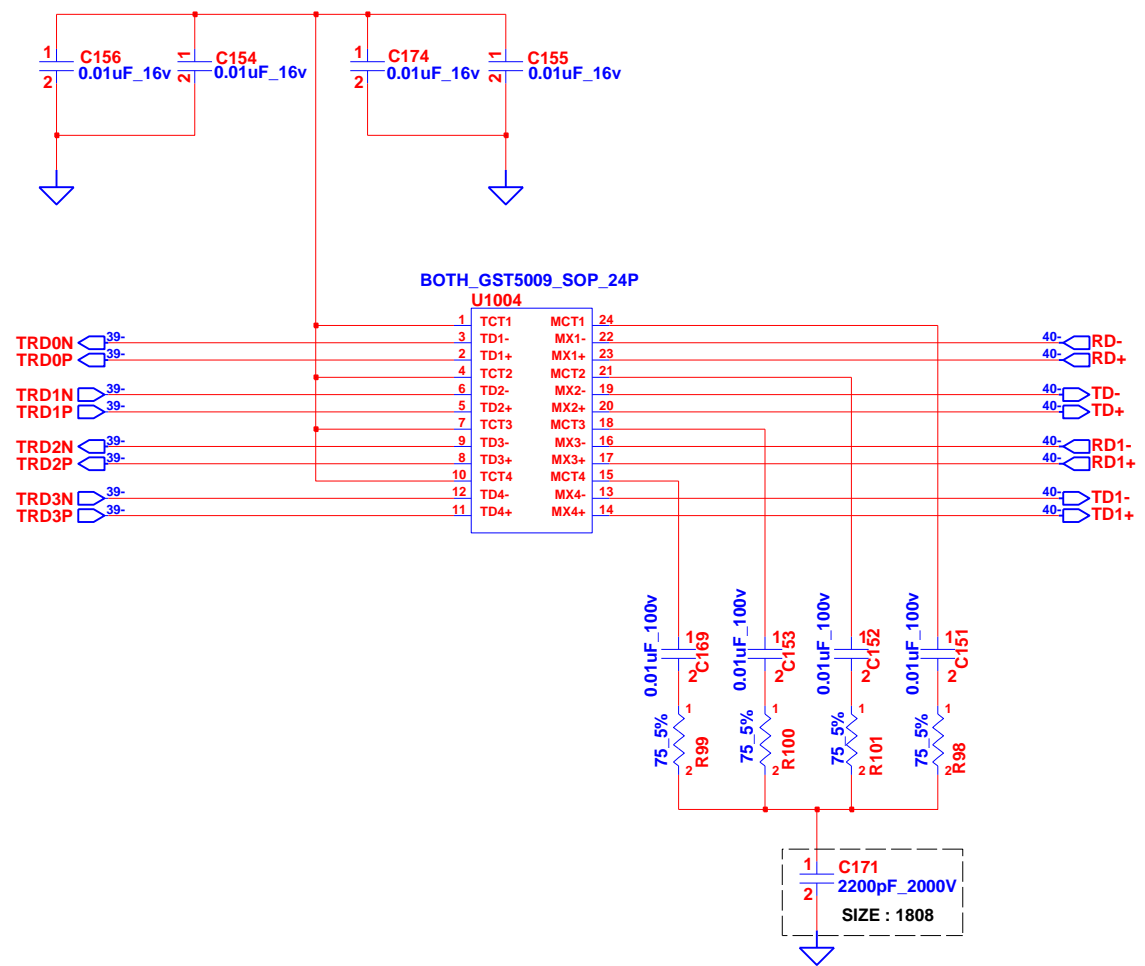
## SATA HDD FFC CONN on MB



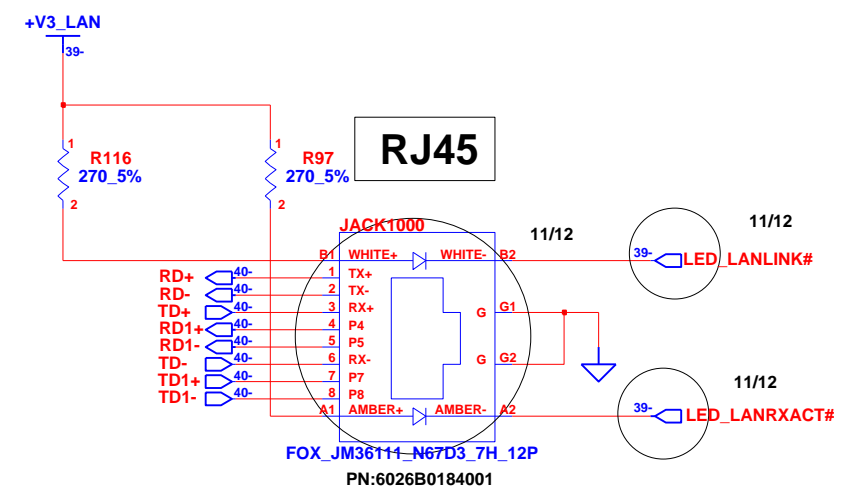
TITLE			
<i>Calpella-UMA</i> <i>SATA HDD &amp; ODD</i>			
SIZE	CODE	DOC. NUMBER	REV
<b>A3</b>	<b>CS</b>		
SHEET 38 OF 49			







Circuit : Fixed  
2009/06/29



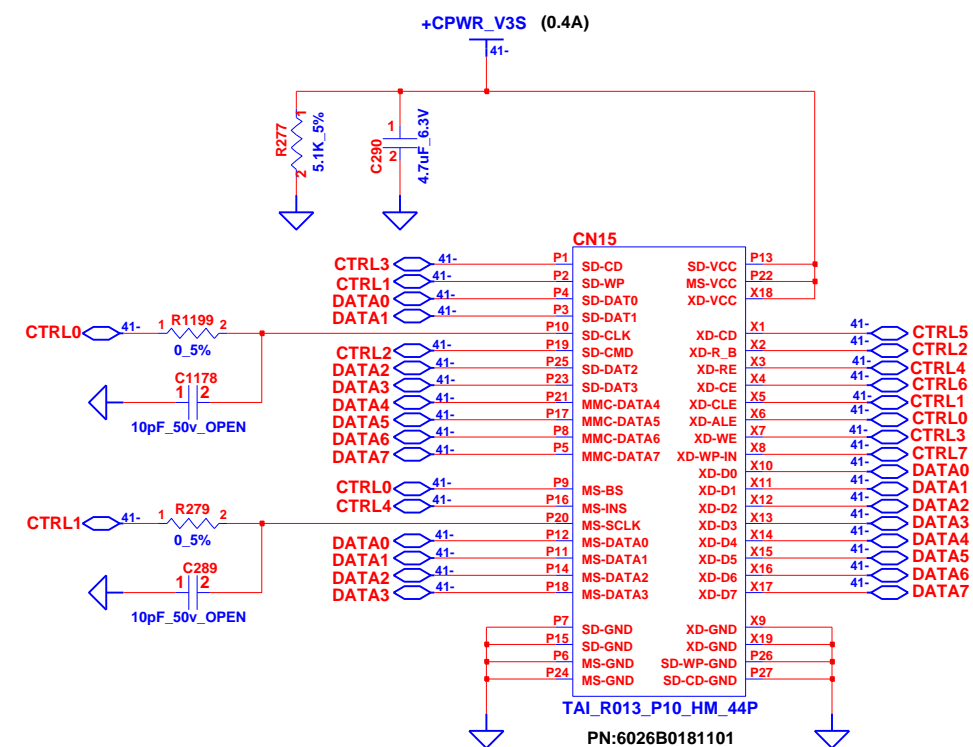
LAYOUT NOTE : Place termination resistors and caps as close to LAN controller as possible

INVENTEC			
TITLE Calpella-UMA			
RJ-45			
SIZE A3	CODE CS	DOC. NUMBER	REV
SHEET 40		OF 49	

CHANGE by FRODOI 29-Jun-2009



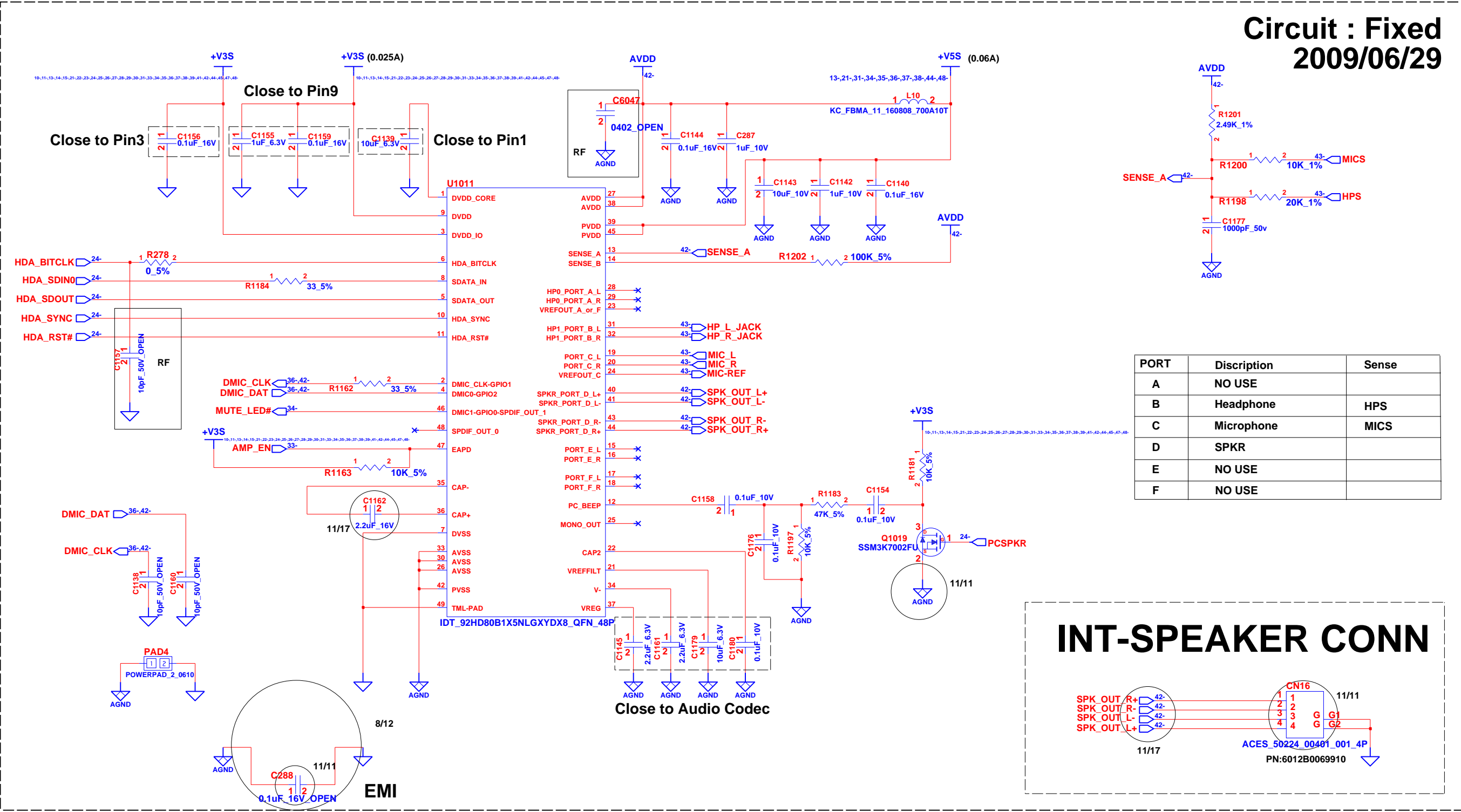
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SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER	REV
SHEET		41	OF 49

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8

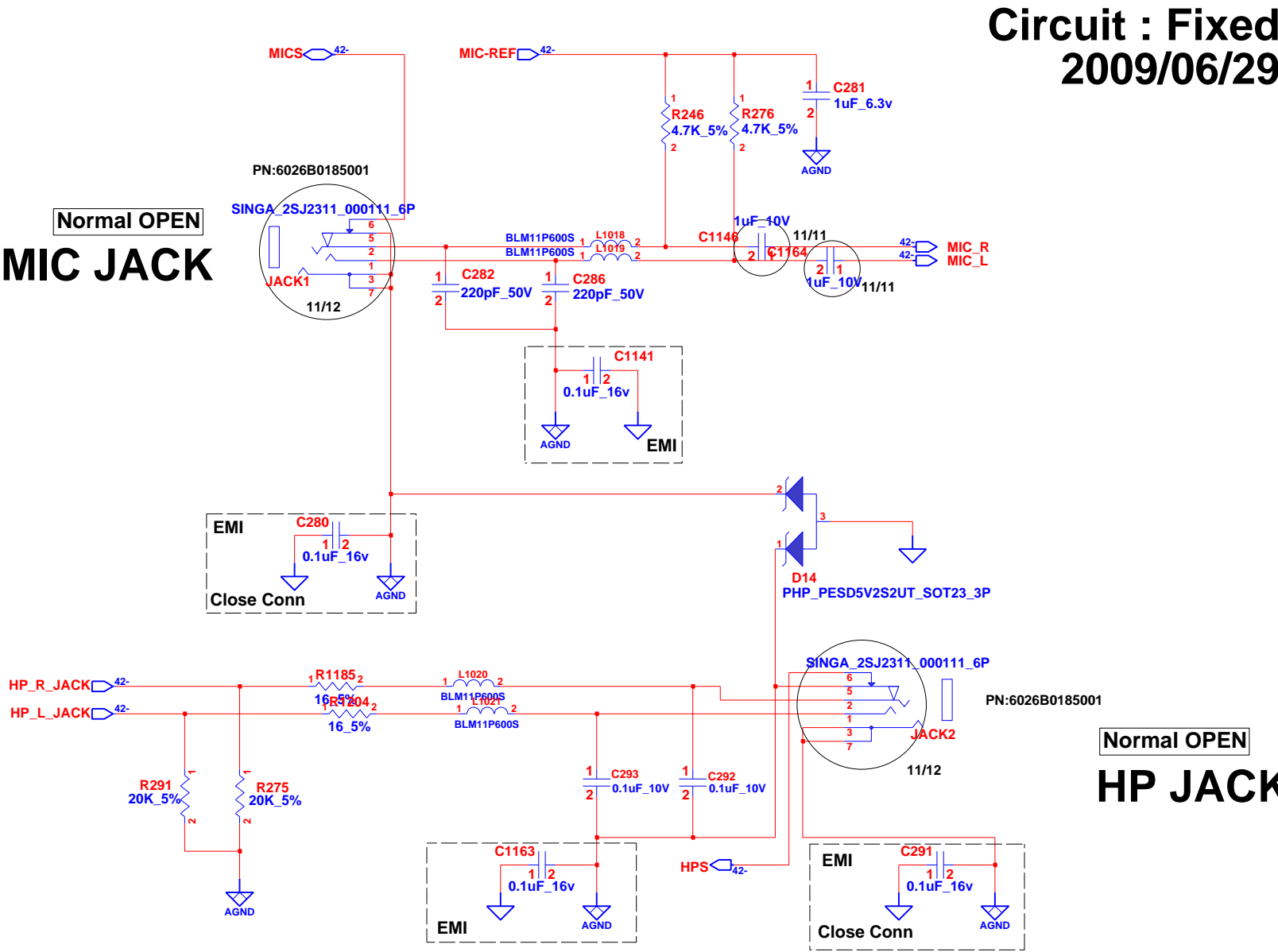


INVENTEC

TITLE Calpella-UMA  
Audio Codec

SIZE A3 CODE CS DOC. NUMBER REV  
SHEET 42 OF 49

CHANGE by FRODOI 23-Jun-2009



**INVENTEC**

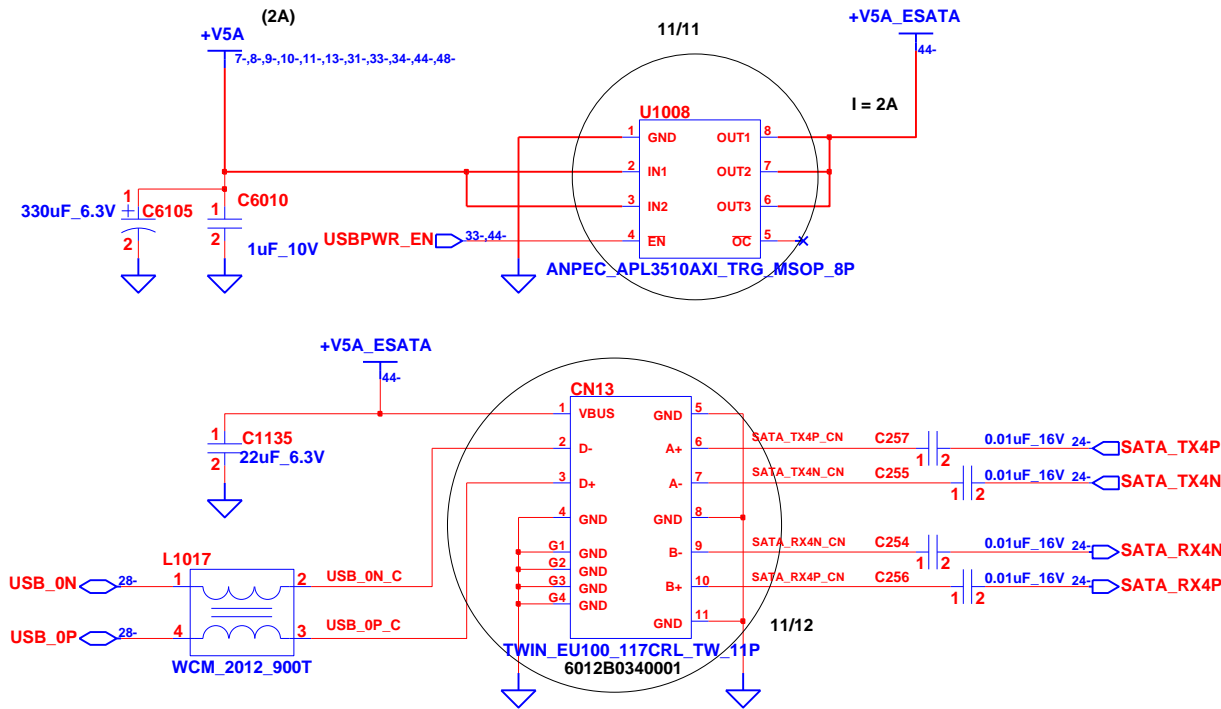
TITLE **Calpella-UMA**  
**HP JACK & MIC JACK**

SIZE	CODE	DOC. NUMBER	REV
A3	CS		

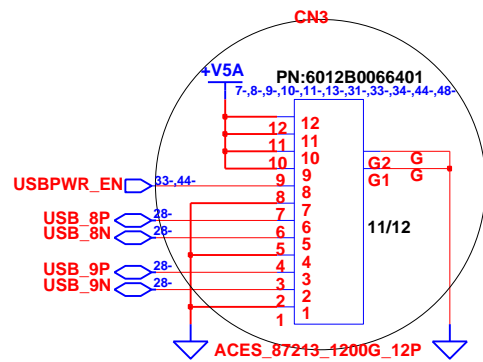
CHANGE by **FRODOI** 18-Jun-2009

SHEET 43 OF 49

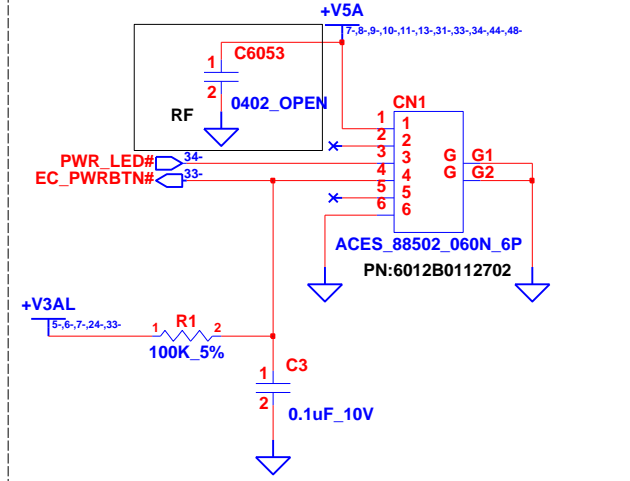
# ESATA CONN (without Re-Driver chip)



## USB BOARD Cable on MB

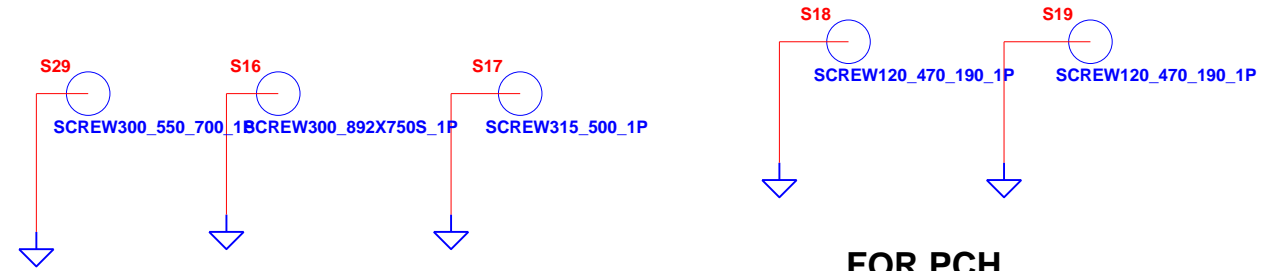
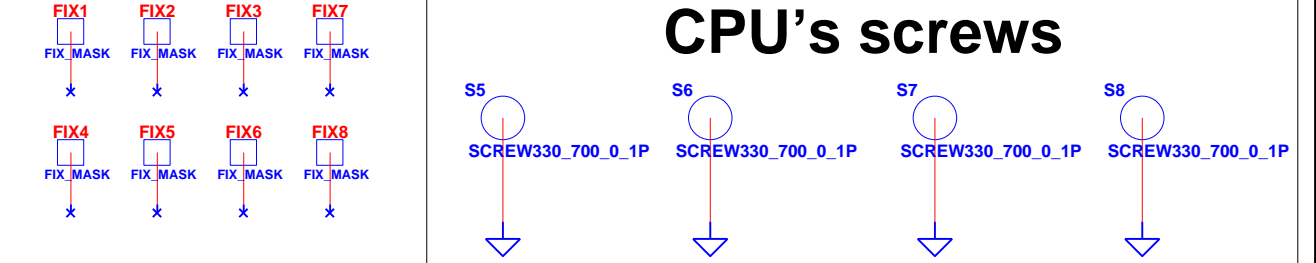


## PBN Cable CN on MB

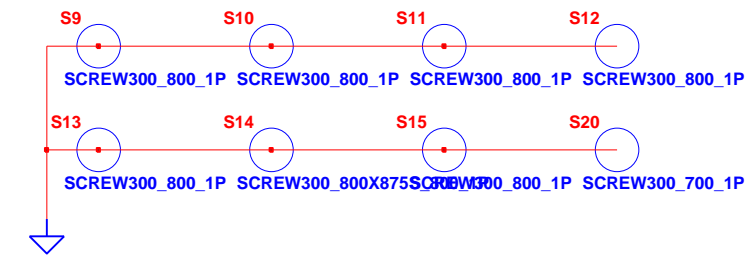


Circuit : Fixed  
2009/06/29

## CPU's screws

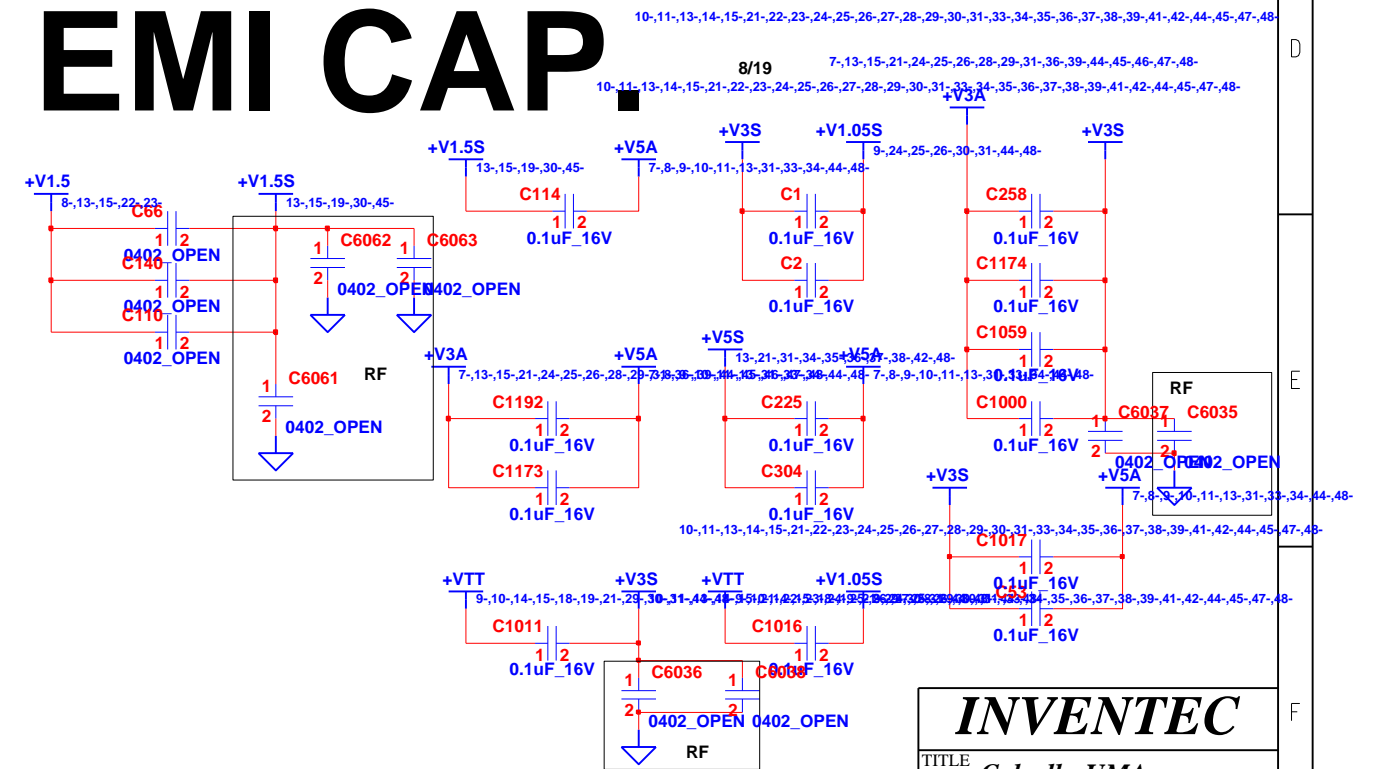


FOR PCH



FOR MB

# EMI CAP.



**INVENTEC**

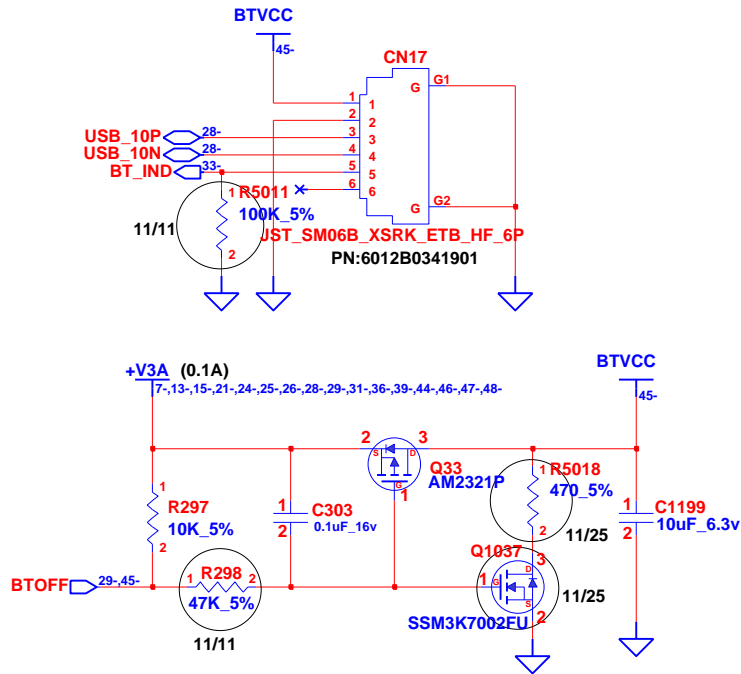
TITLE Calpella-UMA  
ESATA, SCREW & LID

SIZE A3	CODE CS	DOC. NUMBER	REV
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CHANGE by FRODOI 18-Jun-2009

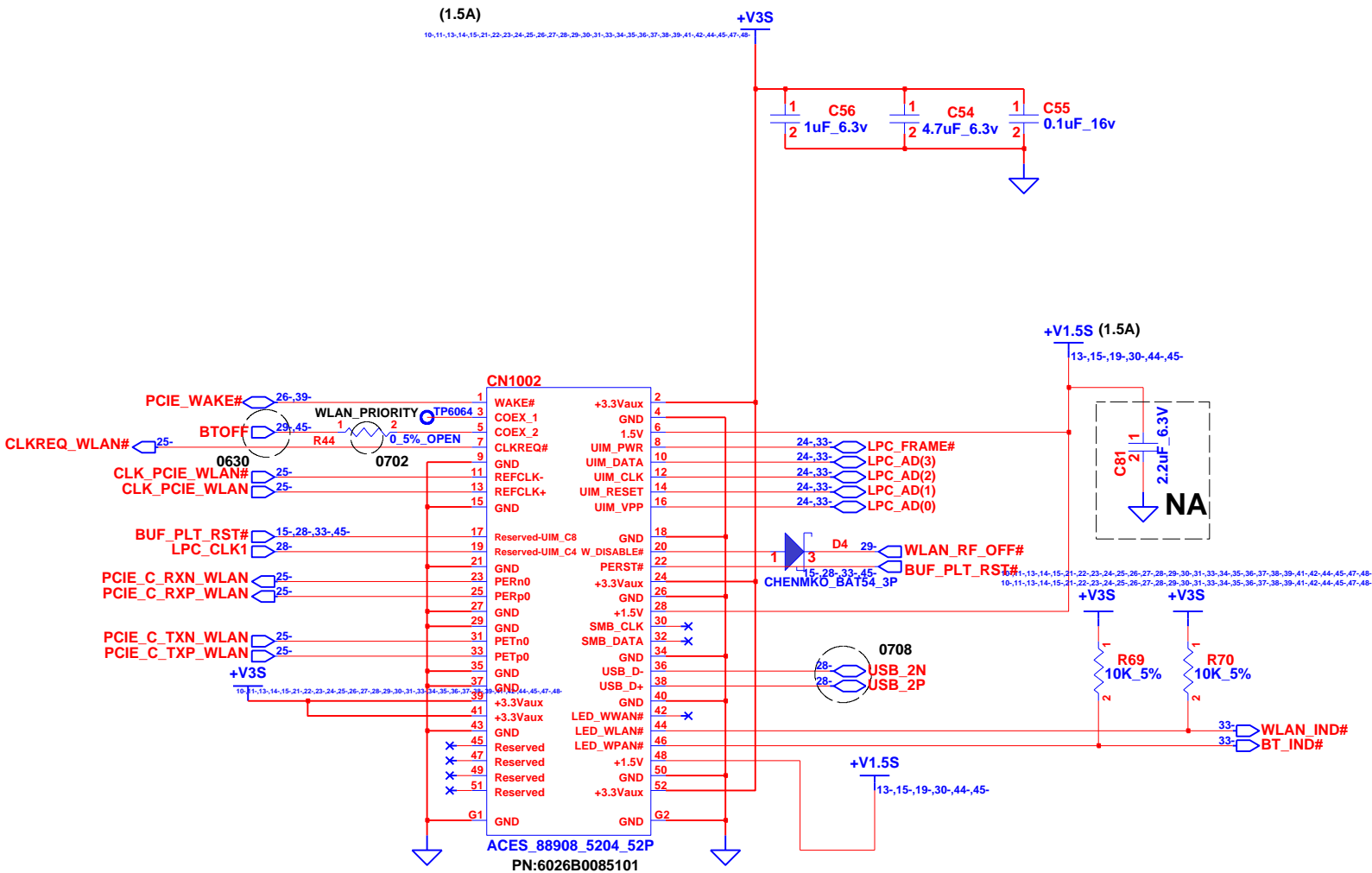
SHEET 44 OF 49

BLUETOOTH CONN



WLAN CONN (MINICARD)

Circuit : Fixed  
2009/07/08



	PCH	SB800\820
WLAN_RF_OFF#	GPIO57	GPIO12
WLAN_POWER_OFF	GPIO35	GPIO176

INVENTEC

TITLE Calpella-UMA  
WLAN, BT & WebCAM

SIZE CODE DOC. NUMBER REV  
A3 CS SHEET 45 OF 49

CHANGE by FRODOI 18-Jun-2009

## F



## F



CHANGE by	FRODOI	22-Jun-2009
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OPTION PART

Circuit : Fixed  
2009/07/08

SIM CARD CONN

WWAN

Close pin2 and pin52 for RF option

for WWAN

	PCH	SB800\820
WWAN_RF_OFF#	GPIO27	GPIO11
WWAN_POWER_OFF	GPIO24	GPIO175
WWAN_DET#	GPIO22	GPIO13

INVENTEC

TITLE  
Calpella-UMA  
WWAN(Optional)

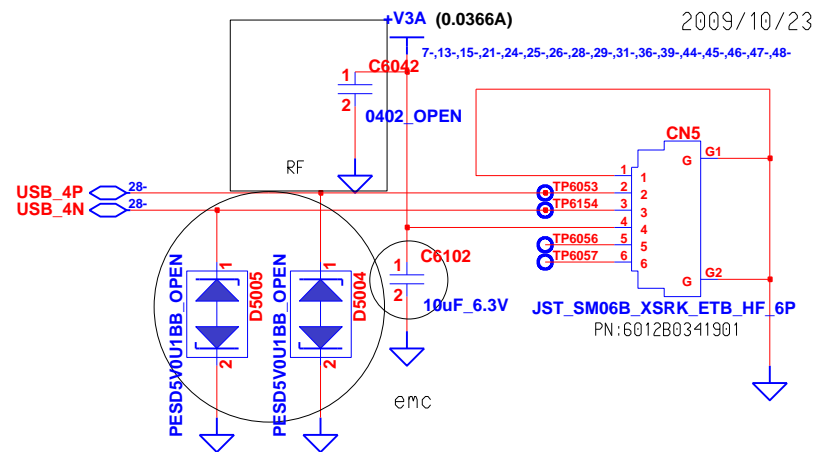
SIZE A3	CODE CS	DOC. NUMBER	REV
SHEET	47	OF	49

CHANGE by FRODOI 18-Jun-2009

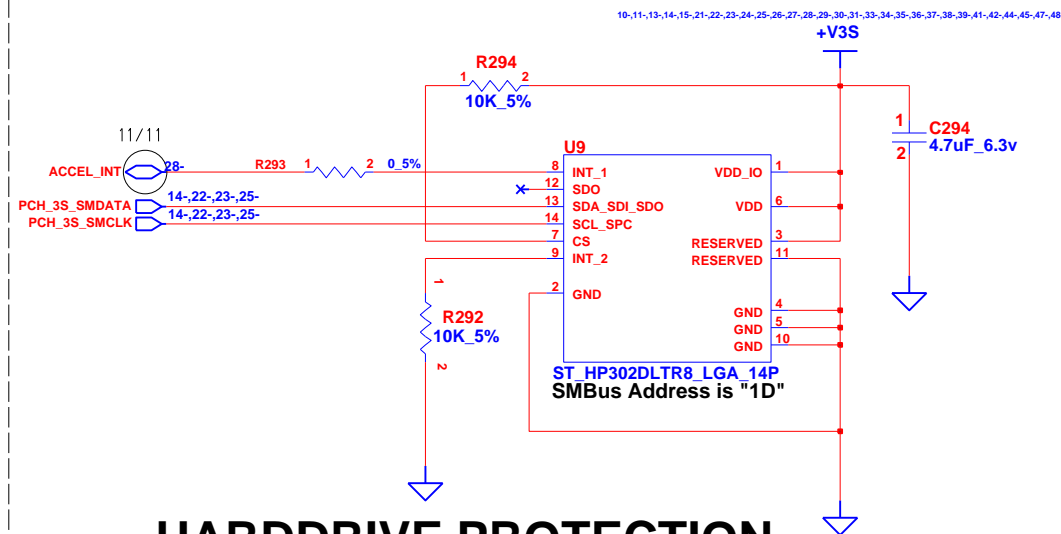


# OPTION PART

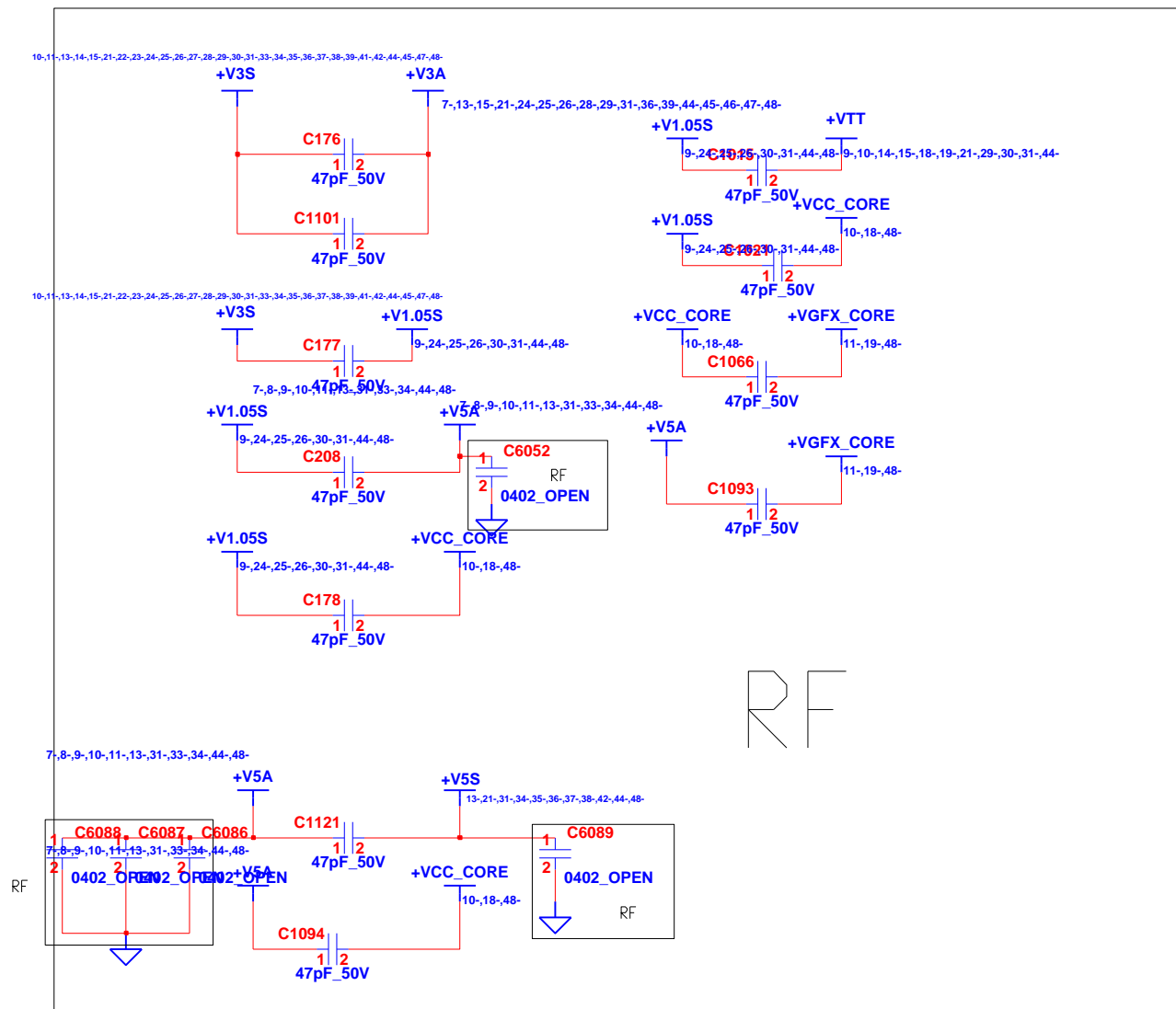
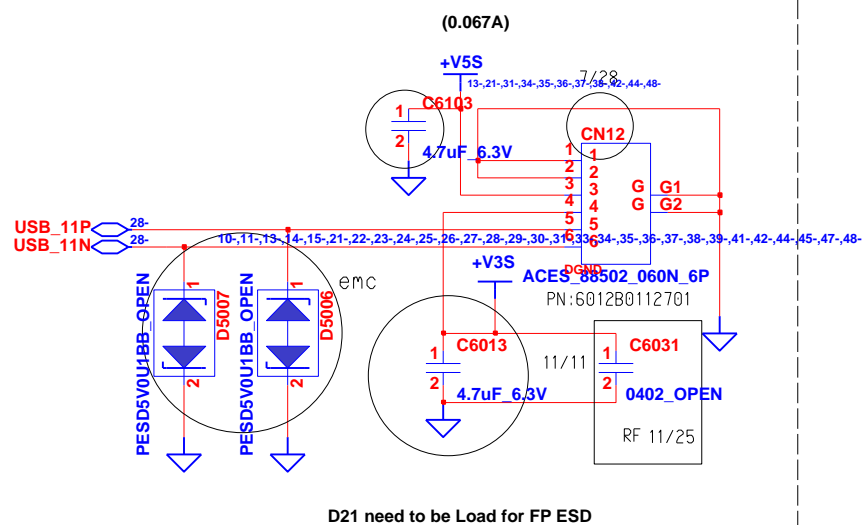
## TOUCH SCREEN



## HARDDRIVE PROTECTION P/N = 6019B0505201



## FingerPrint



INVENTEC			
TITLE Calpella-UMA Touchscreen, FP & HD LOCK(Option)			
SIZE A3	CODE CS	DOC. NUMBER	REV
SHEET 48		OF 49	

	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F

FIX9

FIX\_MASK

FIX10

FIX\_MASK

FIX13

FIX\_MASK

FIX15

FIX\_MASK

FIX16

FIX\_MASK

FIX19

FIX\_MASK

FIX20

FIX\_MASK

FIX21

FIX\_MASK

FIX22

FIX\_MASK

CHANGE by

SANDISI

23-Oct-2009

INVENTEC

TITLE

FP

SIZE

A3

CODE

CS

DOC. NUMBER

49

REV

49

SHEET