

Model Name : ZIWB0/ZIWB1/ZIWE0  
File Name :

# Compal Confidential

## ZIWB0/ZIWB1/ZIWE0 UMA M/B Schematics Document

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Intel Bay Trail M

2014-02-10

REV:1.0

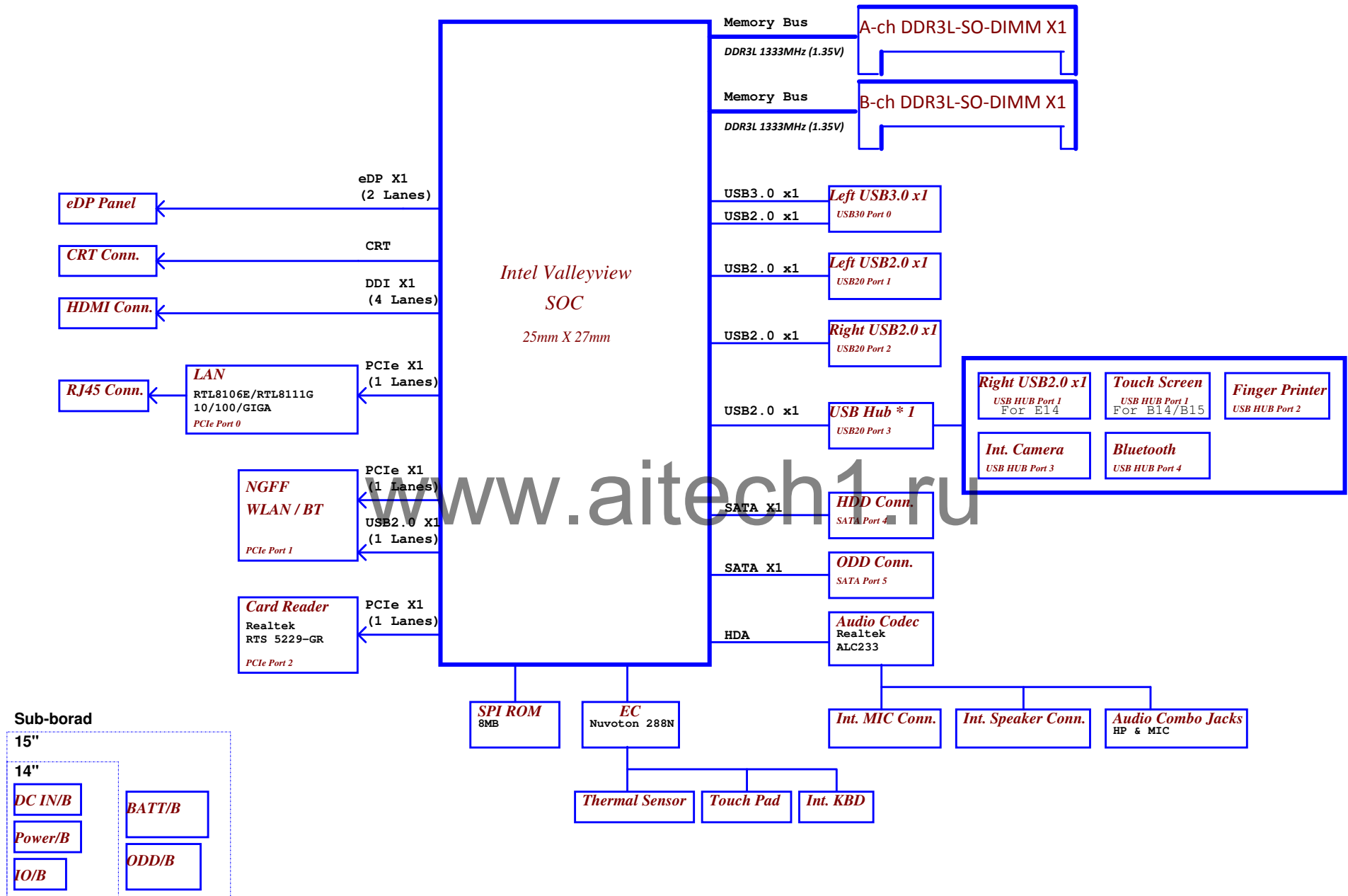
14PCB@  
DA1 PCB

Part Number	Description
DA60013Z010	REV1.0 M/B

15PCB@  
DA2 PCB

Part Number	Description
DA60013Z110	REV1.0 M/B

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Voltage Rails

Power Plane	Description	S0	S3	S4/S5
VIN	19V Adapter power supply	ON	ON	ON
BATT+	12V Battery power supply	ON	ON	ON
B+	AC or battery power rail for power circuit. (19V/12V)	ON	ON	ON
+RTCVCC	RTC Battery Power	ON	ON	ON
+1.0VALW	+1.0v Always power rail	ON	ON	ON
+1.8VALW	+1.8v Always power rail	ON	ON	ON
+3VALW	+3.3v Always power rail	ON	ON	ON
+5VALW	+5.0v Always power rail	ON	ON	ON
+1.35V	+1.35V power rail for DDR3L	ON	ON	OFF
+SOC_VCC	Core voltage for SOC	ON	OFF	OFF
+SOC_VNN	GFX voltage for SOC	ON	OFF	OFF
+0.675VS	+0.675V power rail for DDR3L Terminator	ON	OFF	OFF
+1.0VS	+1.0v system power rail	ON	OFF	OFF
+1.05VS	+1.05v system power rail	ON	OFF	OFF
+1.35VS	+1.35v system power rail	ON	OFF	OFF
+1.5VS	+1.5v system power rail	ON	OFF	OFF
+1.8VS	+1.8v system power rail	ON	OFF	OFF
+3VS	+3.3v system power rail	ON	OFF	OFF
+5VS	+5.0v system power rail	ON	OFF	OFF
Note : ON* means that this power plane is ON only with AC power available, otherwise it is OFF.				

Board ID / SKU ID Table for AD channel

Vcc	3.3V +/- 5%			
Ra/Rc/Re	100K +/- 5%			
Board ID	Rb / Rd / Rf	VAD_BID min	VAD_BID typ	VAD_BID max
0	0	0 V	0 V	0 V
1	8.2K +/- 5%	0.216 V	0.250 V	0.289 V
2	18K +/- 5%	0.436 V	0.503 V	0.538 V
3	33K +/- 5%	0.712 V	0.819 V	0.875 V
4	56K +/- 5%	1.036 V	1.185 V	1.264 V
5	100K +/- 5%	1.453 V	1.650 V	1.759 V
6	200K +/- 5%	1.935 V	2.200 V	2.341 V
7	NC	2.500 V	3.300 V	3.300 V

BOARD ID Table

Board ID	PCB Revision
0	
1	
2	
3	
4	
5	
6	

BOM Option Table

Item	BOM Structure
Unpop	@
Connector	ME@
XDP (Debug Port)	XDP@
EMC requirement	EMC@
EMC requirement unpop	@EMC@
ESD requirement	ESD@
ESD requirement unpop	@ESD@
Touch Screen	TS@
B/E series sku	B14@
B/E series sku	B15@
B/E series sku	E14@

EC SM Bus1 address

Device	Address
Smart Battery	0001 011X b
Charger	0b00010010 (0x12H)

EC SM Bus2 address

Device	Address
GPU	0x9E
Thermal	1001_101xb

SOC SM Bus address

Device	Address
SO-DIMM A (JDIMM1)	A0h
SO-DIMM B (JDIMM2)	A2h

43 level BOM table

43 Level	Description	BOM Structure

USOC1  
N2920@

S IC FH8065301616203 SR1SF B3 1.86G C38!  
Part Number = SA00007E860

USOC1  
N3520@

S IC FH8065301616103 SR1SE B3 2.17G C38!  
Part Number = SA00007E990

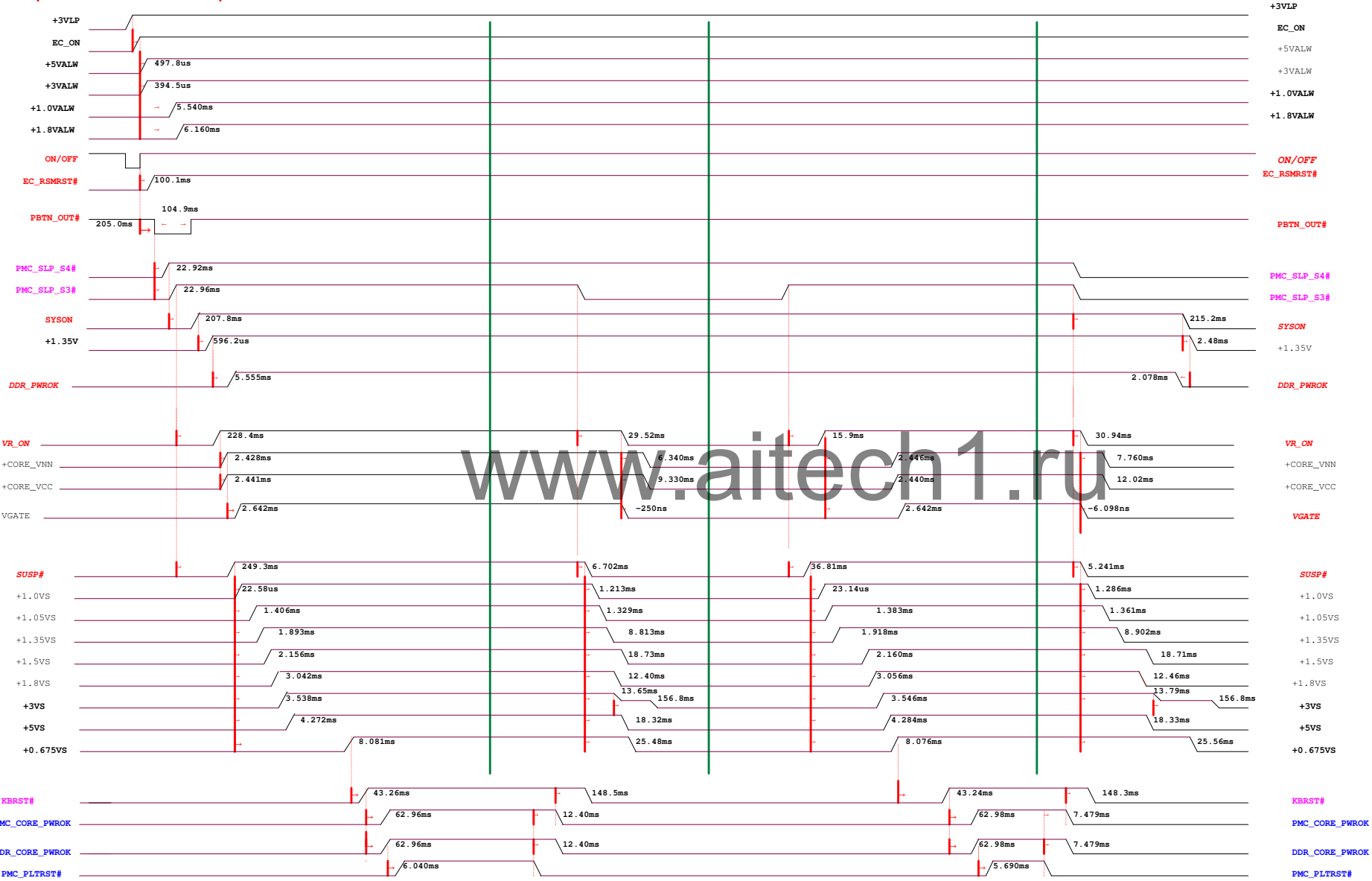
USOC1  
N2815@

S IC FH8065301619509 SR1SJ B3 1.86G C38!  
Part Number = SA00007EO50

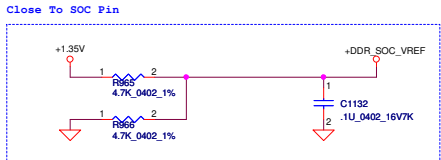
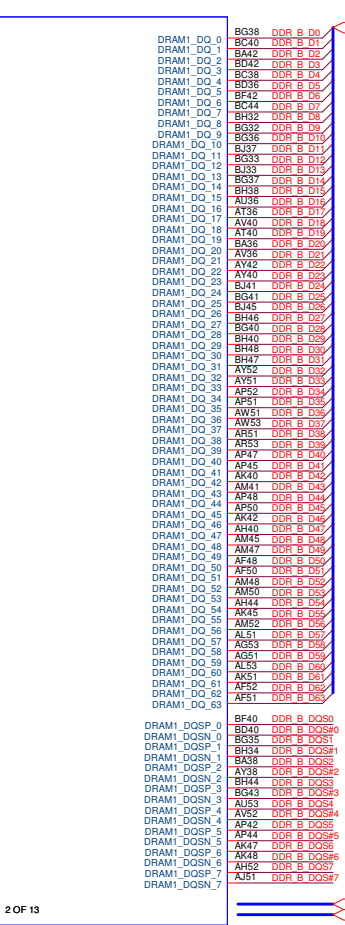
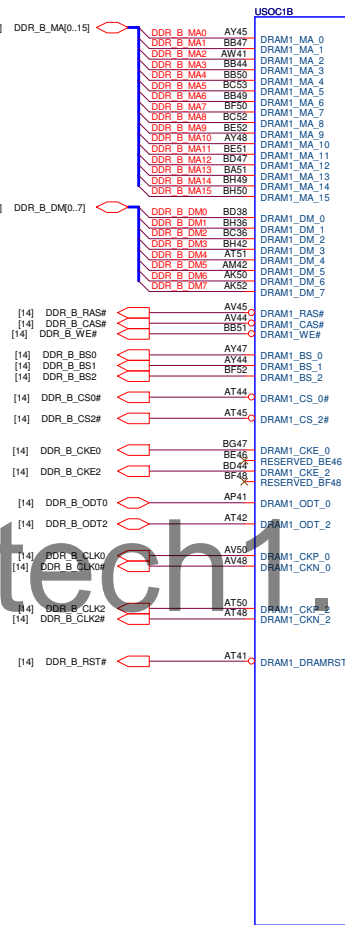
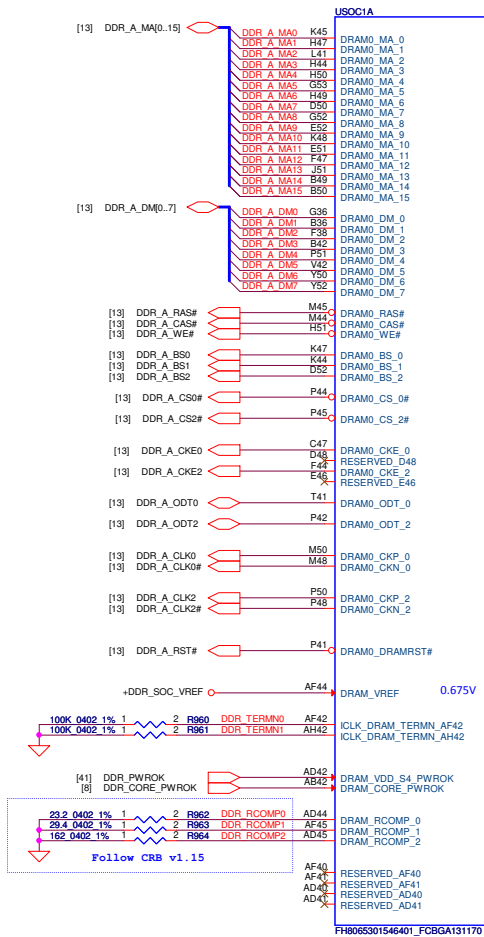
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Power On S3 S3 Resume Power Off

Plug in



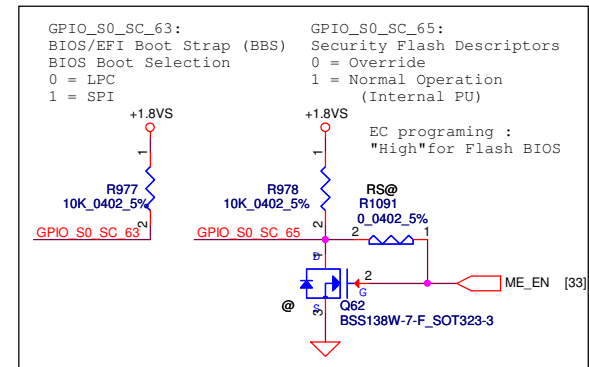
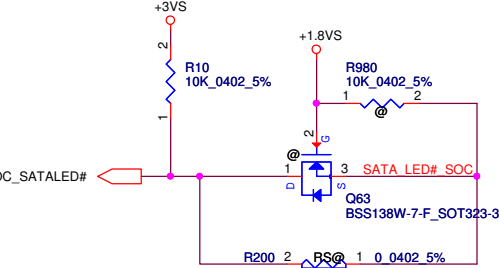
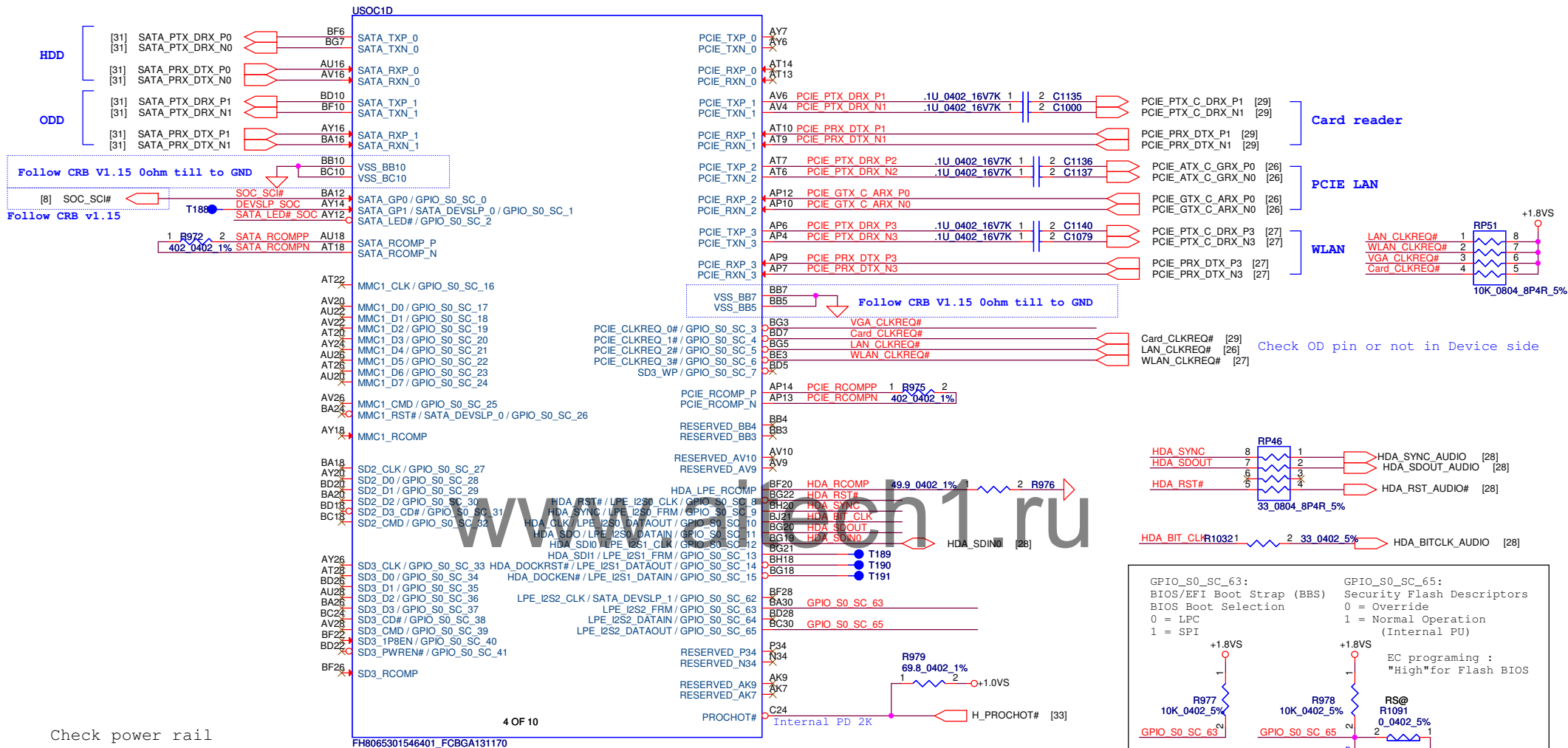
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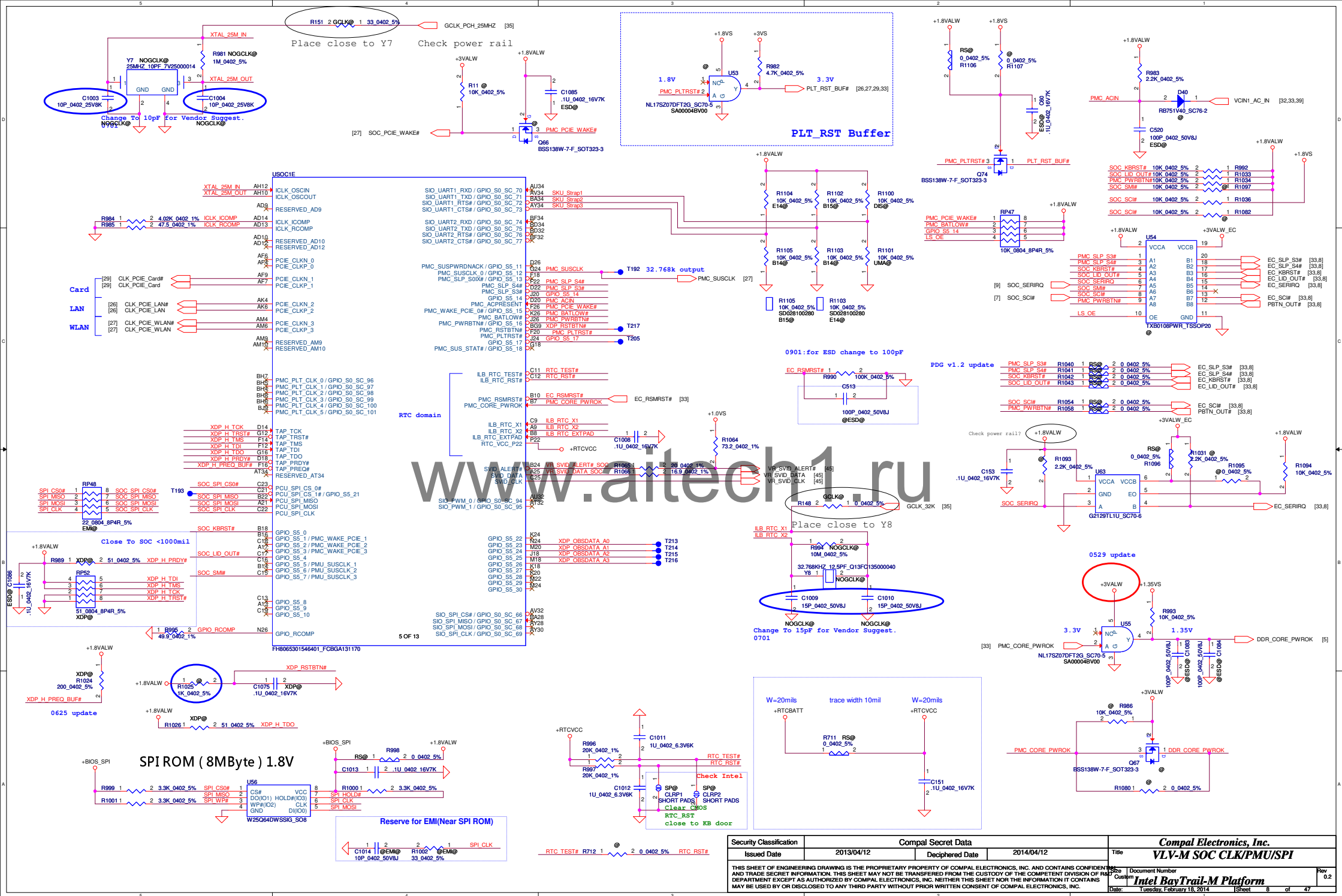
Compal Electronics, Inc.  
**VLV-M SOC Memory DDR3L**  
 Intel BayTrail-M Platform





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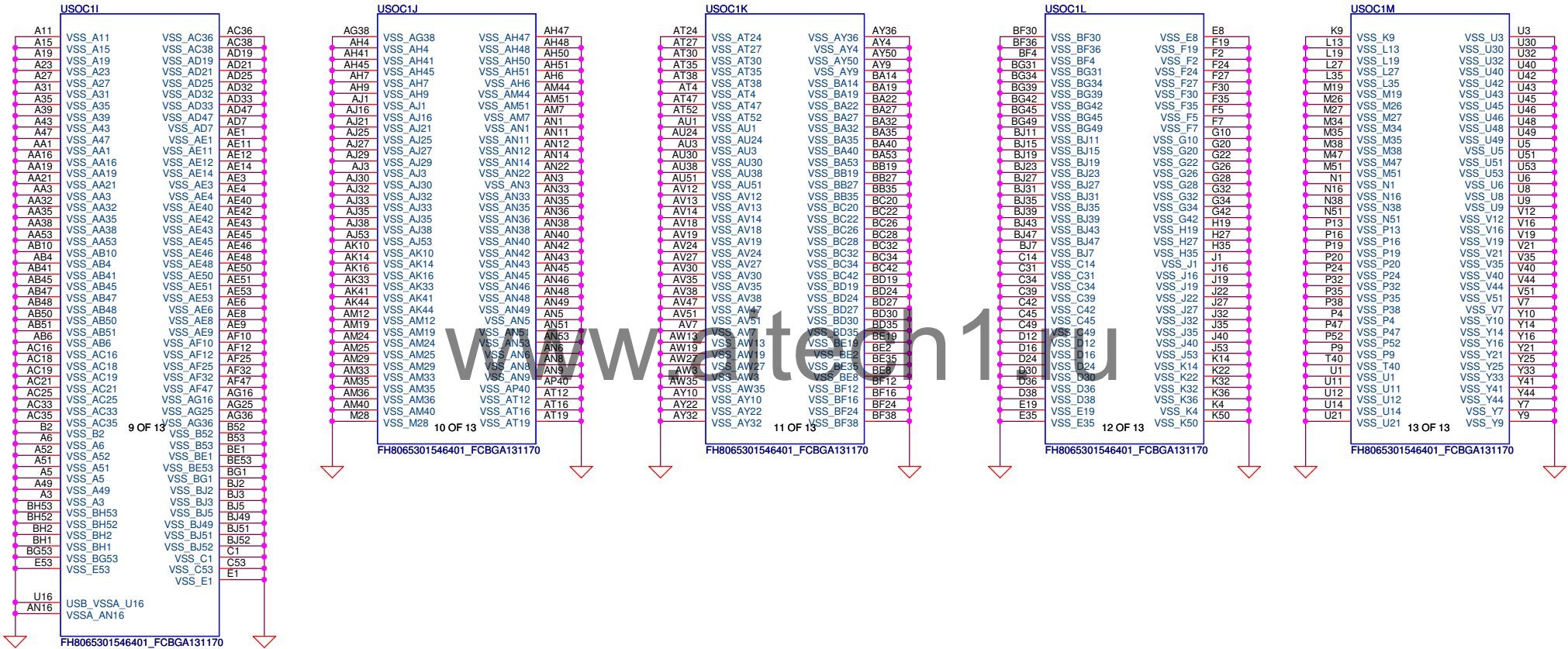
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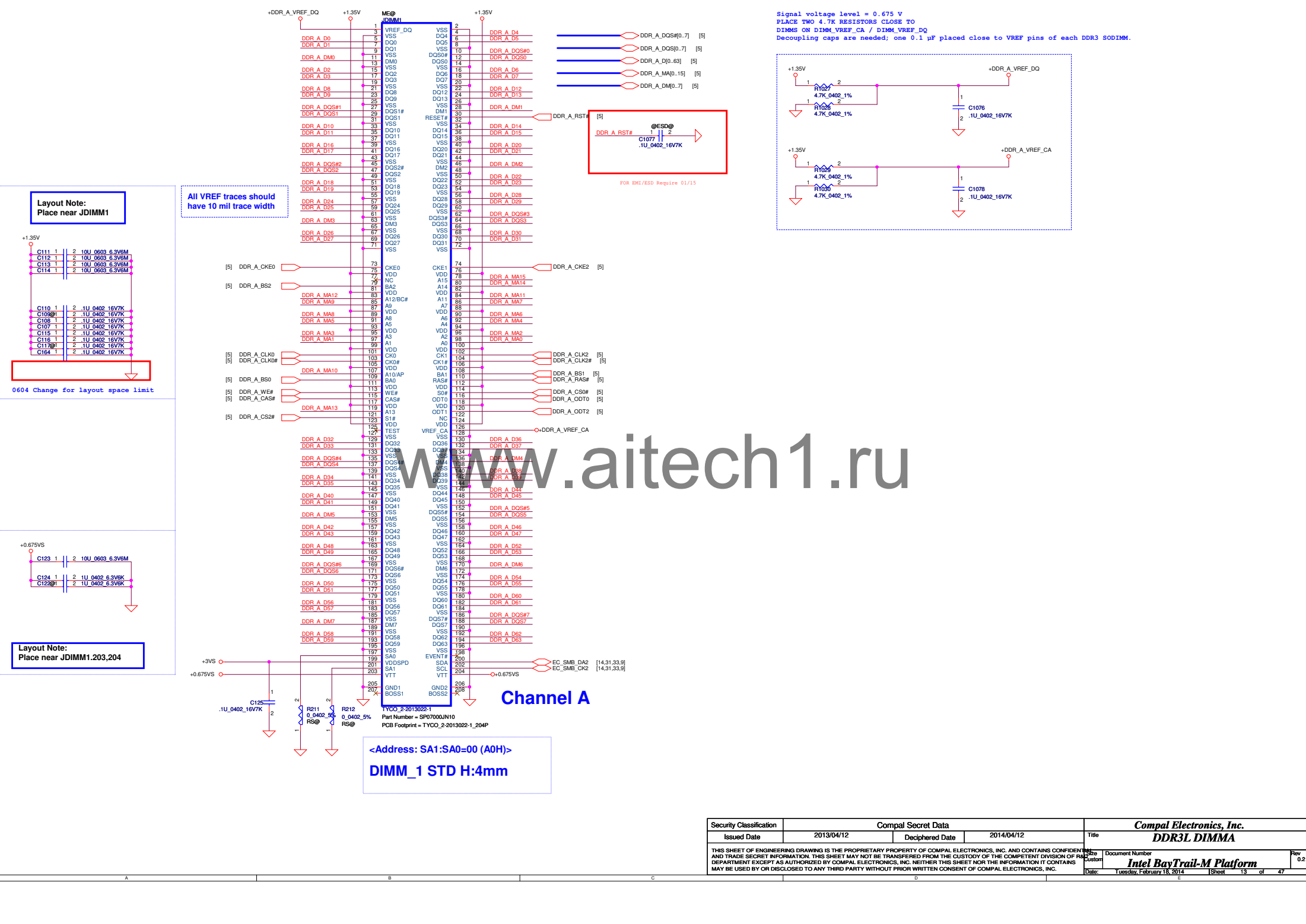








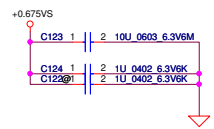
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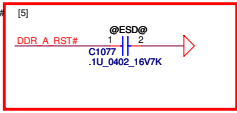
Layout Note:  
Place near JDIMM1

All VREF traces should  
have 10 mil trace width

0604 Change for layout space limit

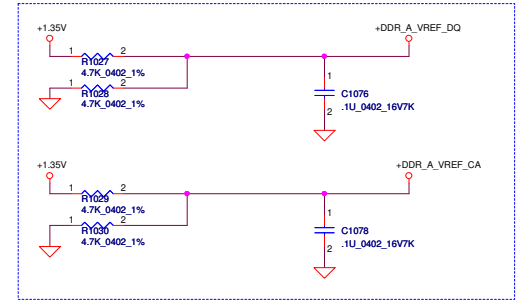


Layout Note:  
Place near JDIMM1.203,204



FOR ENI/ESD Require 01/15

Signal voltage level = 0.675 V  
PLACE TWO 4.7K RESISTORS CLOSE TO  
DIMMS ON DIMM\_VREF\_CA / DIMM\_VREF\_DQ  
Decoupling caps are needed; one 0.1 uF placed close to VREF pins of each DDR3 SODIMM.

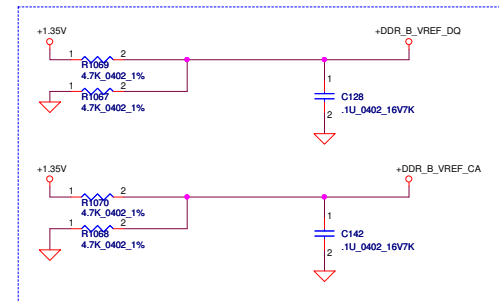


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Channel A

<Address: SA1:SA0=00 (A0H)>  
DIMM\_1 STD H:4mm

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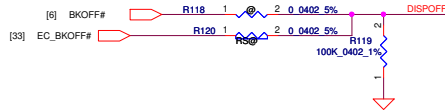
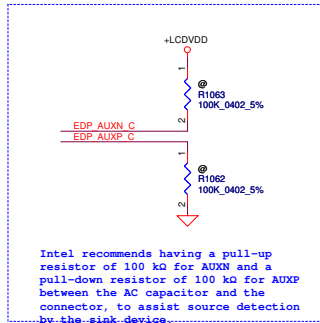
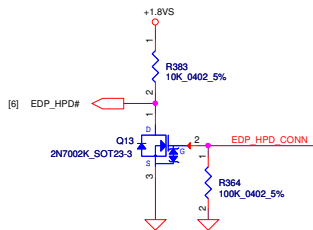
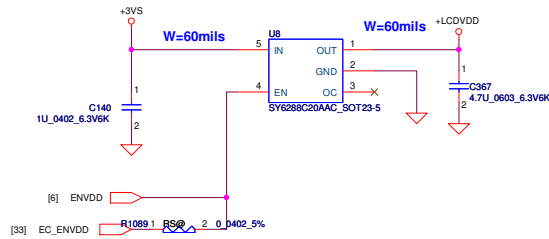
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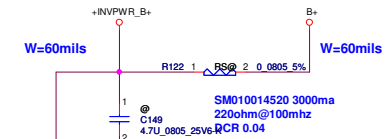
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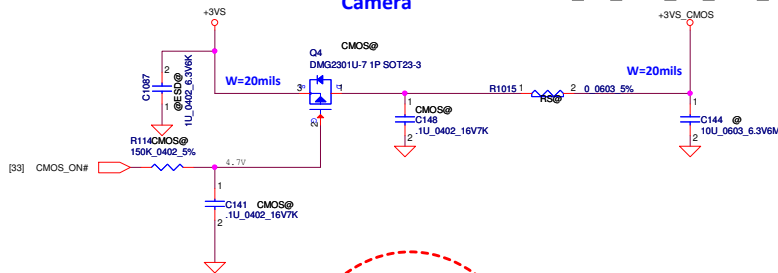
## LCD POWER CIRCUIT



## LCD/ LED PANEL Conn.



## Camera

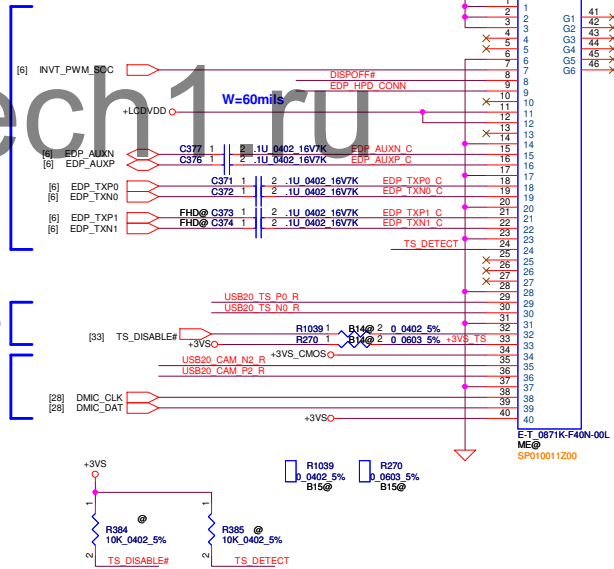
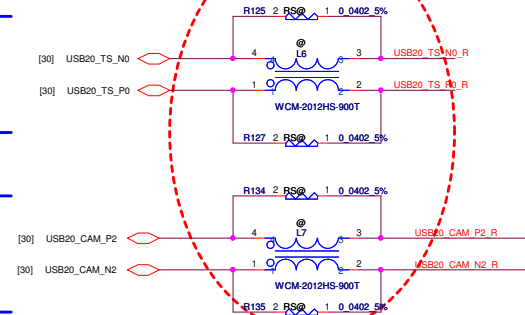


## Touch Screen

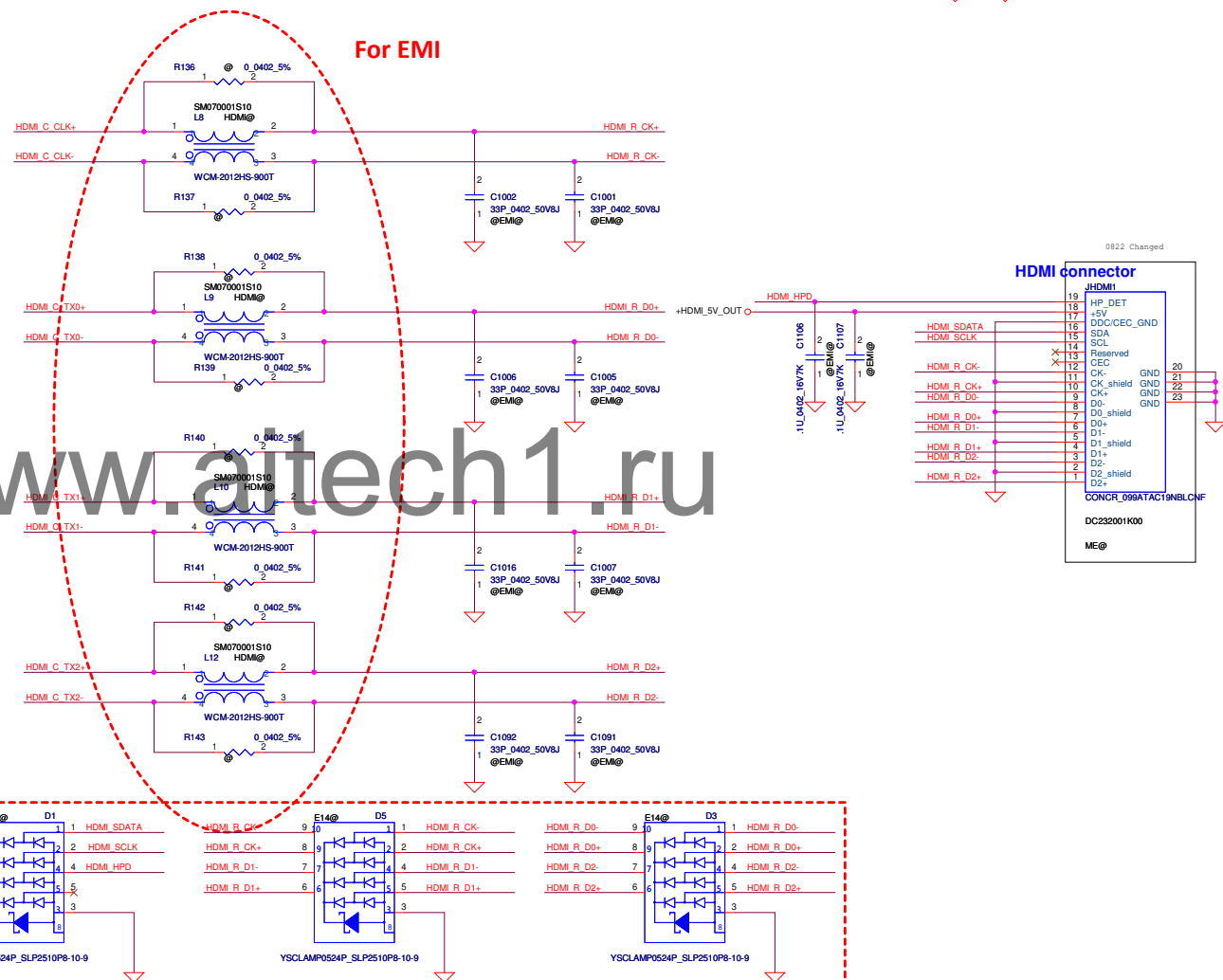
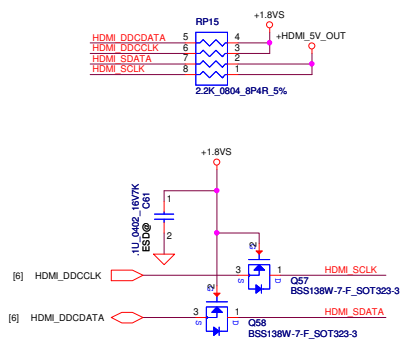
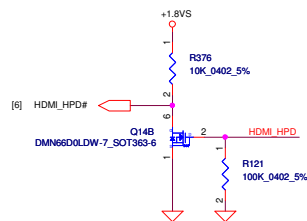
## Camera DMIC

## Camera

## Touch Screen

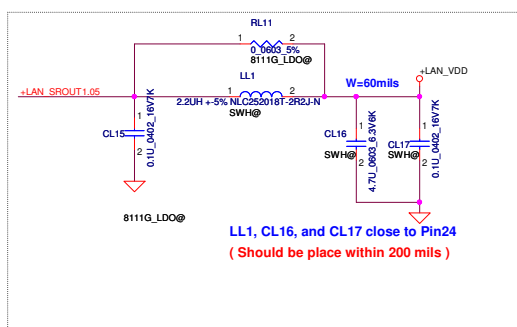
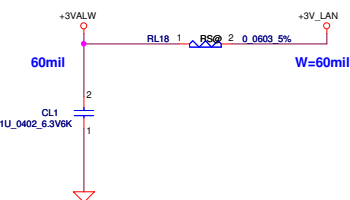


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				Date	Tuesday, February 18, 2014	Sheet 23 of 47



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Issued Date	2013/04/12	Deciphered Date	2014/04/12	Title	HDMI CONN.
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				Custom	Intel BayTrail-M Platform
Date: Tuesday, February 18, 2014		Sheet		24	of 47



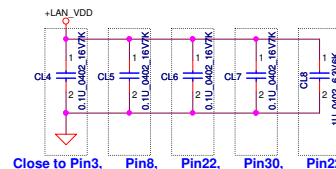
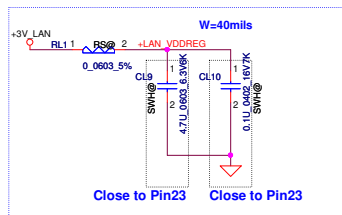
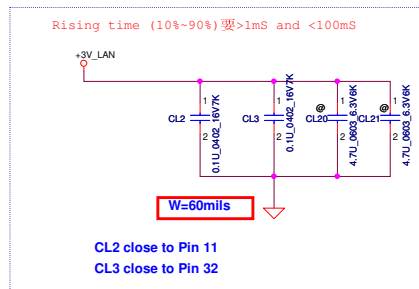


SA00005V700

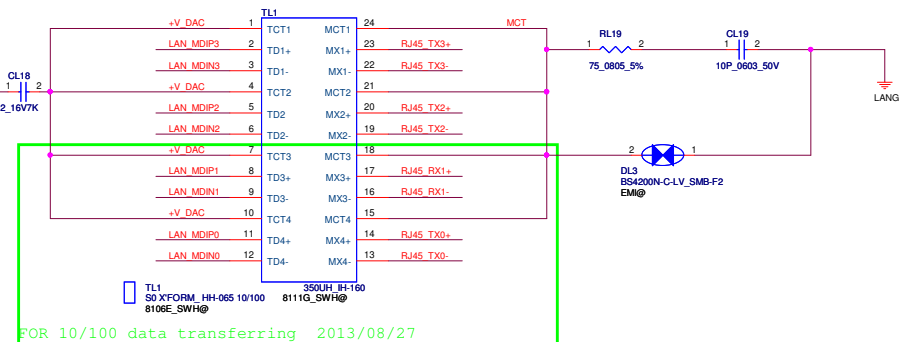
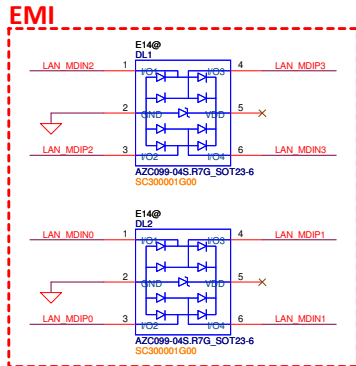
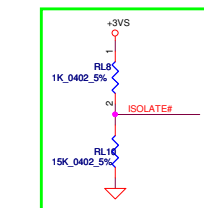
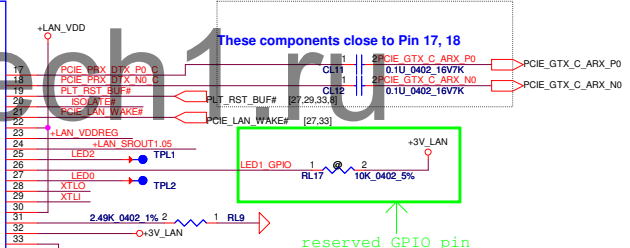
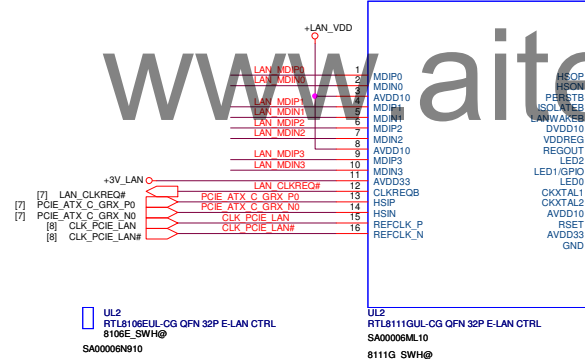
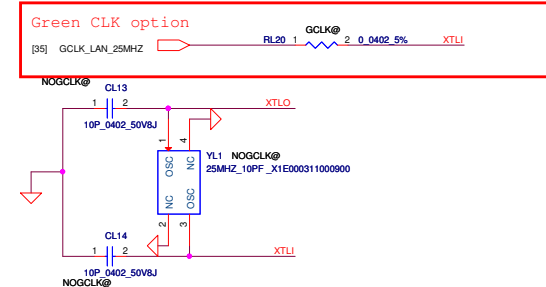
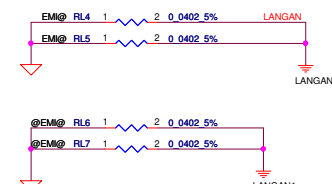
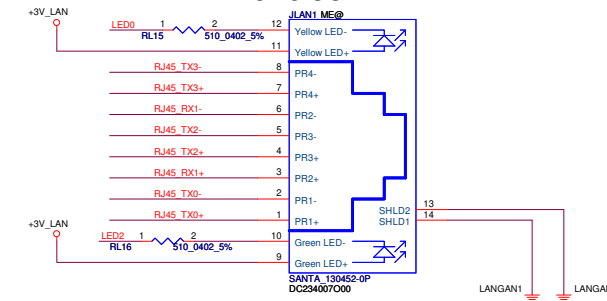
SA000065V00

	1.0 V source	LL1	CL16, CL17	CL8, CL10	RL11	CL15
RTL8111G	LDO	X	X	X	O	O
RTL8111G	External	X	X	X	X	O
RTL8111GS/ RTL8111GUS/ RTL8106EUS	SWR	O	O	O	X	X
RTL8106E	LDO	X	X	X	X	X

Please refer to the table above when using different 1.0V supply source.  
For RTL8111GS, RTL8111GUS, RTL8106E and RTL8106EUS, External 1.0V Supply Is Not Permitted.



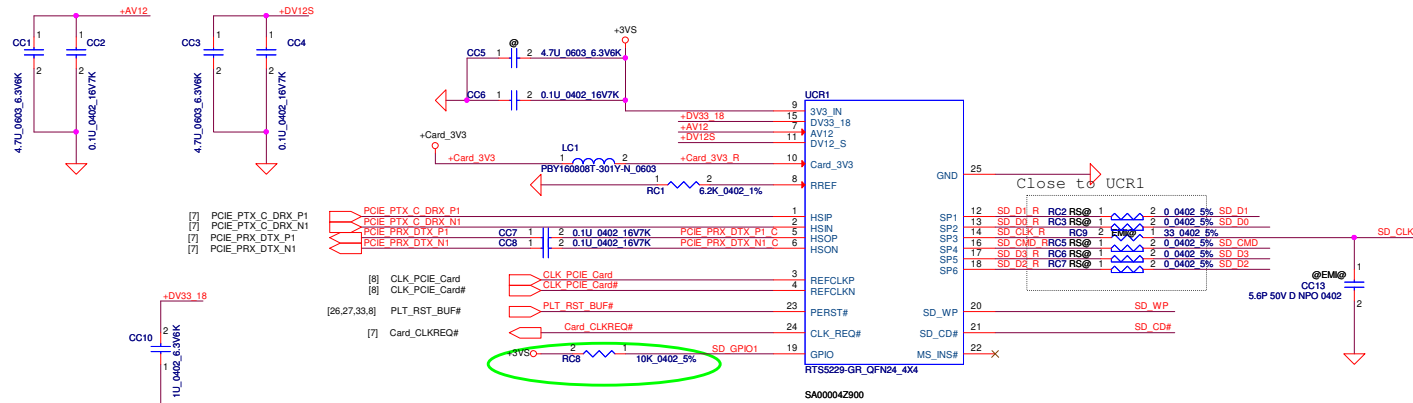
## RJ-45 CONN.



Security Classification	Compal Secret Data	Deciphered Data	2014/04/12	Title	Compal Electronics, Inc.
Issued Date	2013/04/12	Deciphered Data	2014/04/12	Document Number	LAN RTL8111G/8106E
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Date:	Tuesday, February 18, 2014	Sheet	26	of	47

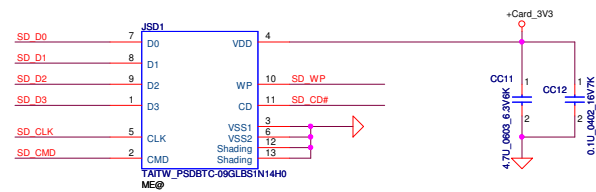






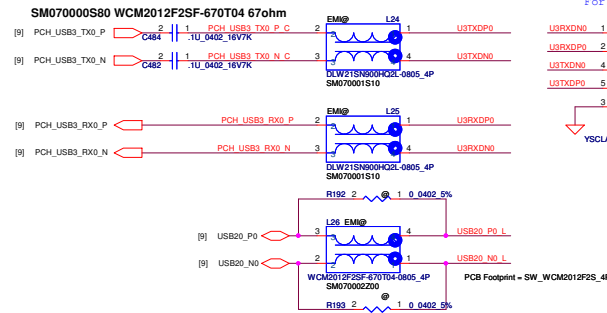
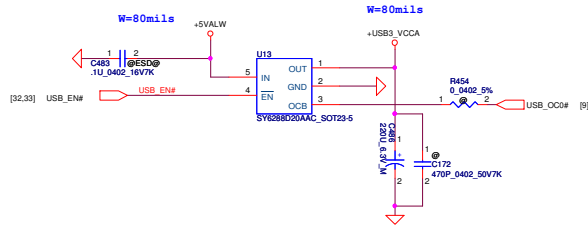
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#### SD/SDXC

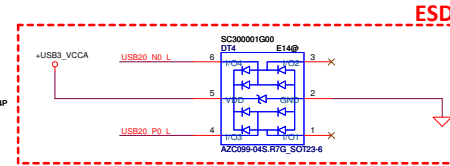
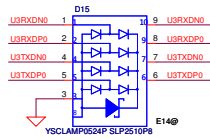


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Issued Date	2012/10/11	Deciphered Date	2014/10/11	Title	P29-CardRead/RTSS5229
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Date:	Tuesday, February 18, 2014	Sheet	29	of	47

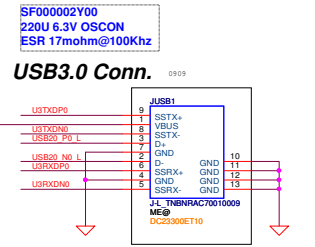




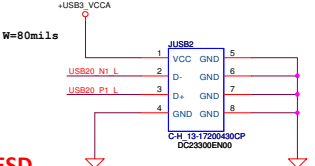
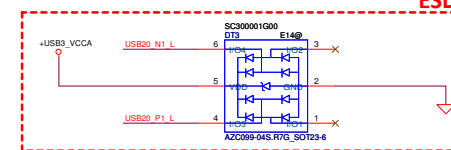
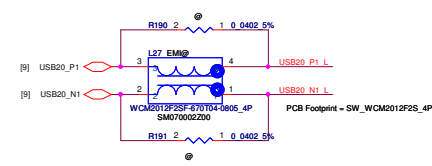
For ESD request



## USB3.0\_Port

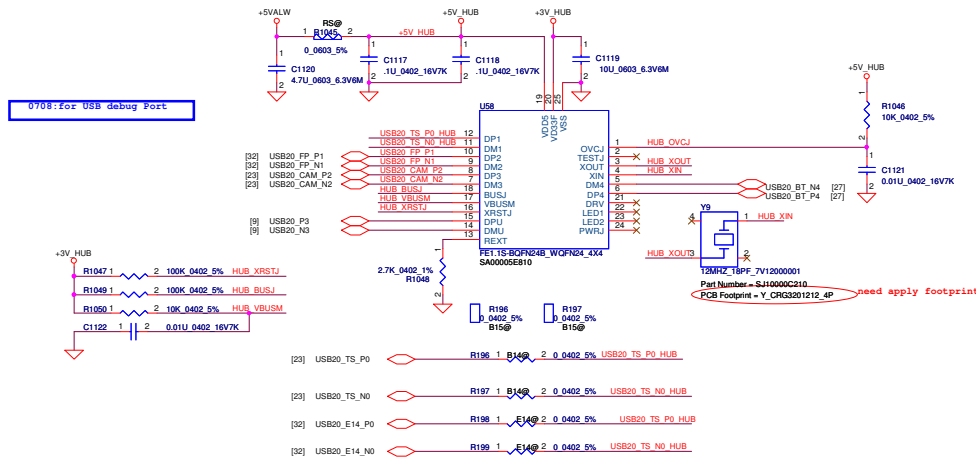


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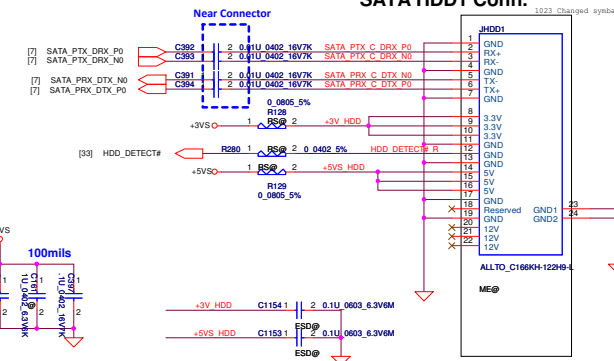
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## USB2.0 HUB

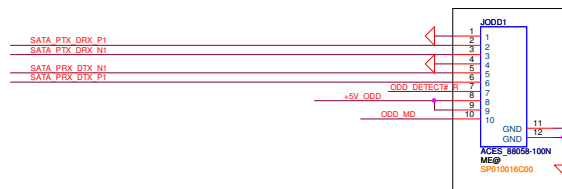
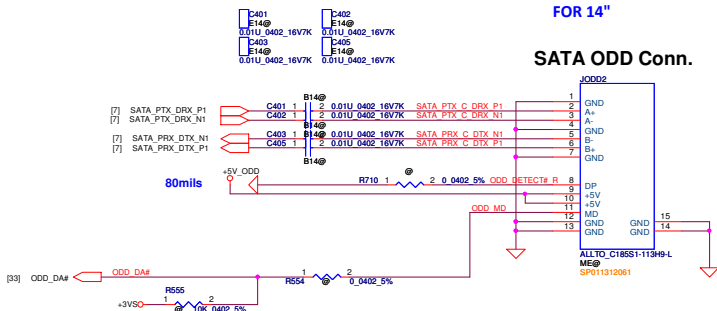


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Issued Date	2013/04/12	Deciphered Date	2014/04/12	USB Conn & Hub FE1.1S	
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				Document Number	0.2
				Intel BayTrail-M Platform	
				Date:	Tuesday, February 18, 2014
				Sheet	30 of 47

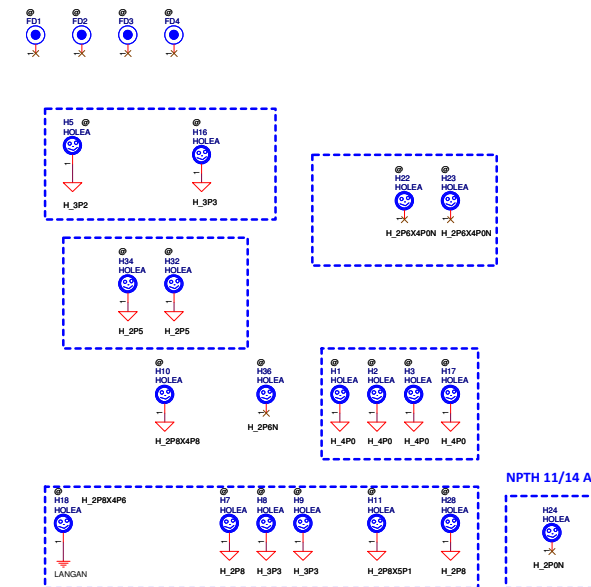
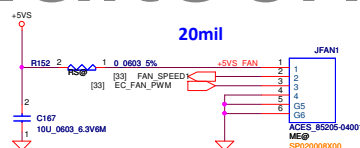
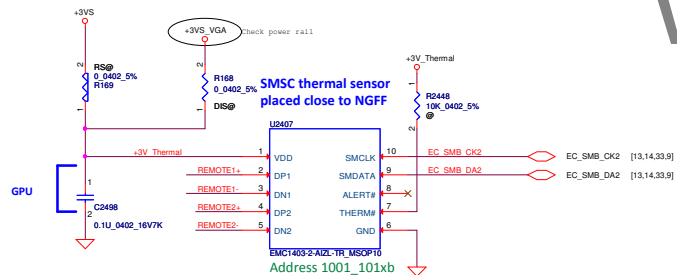
**SATA HDD1 Conn.**



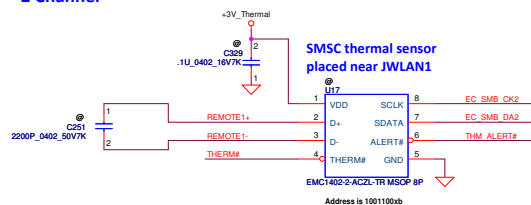
**FOR 15"** 0822 changed  
**SATA ODD FFC Conn.**



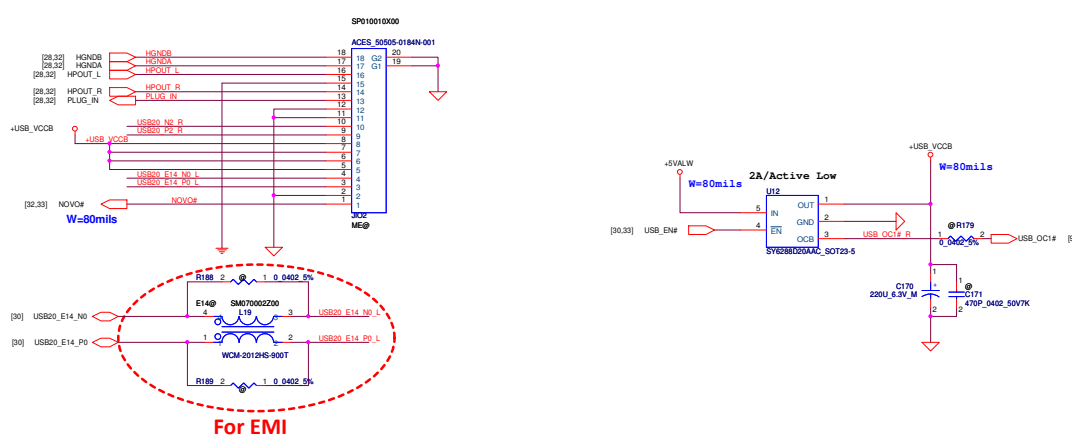
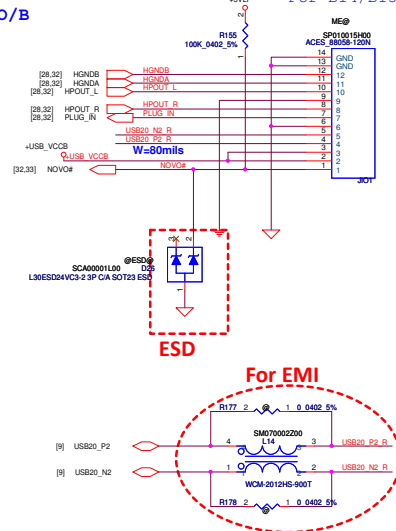
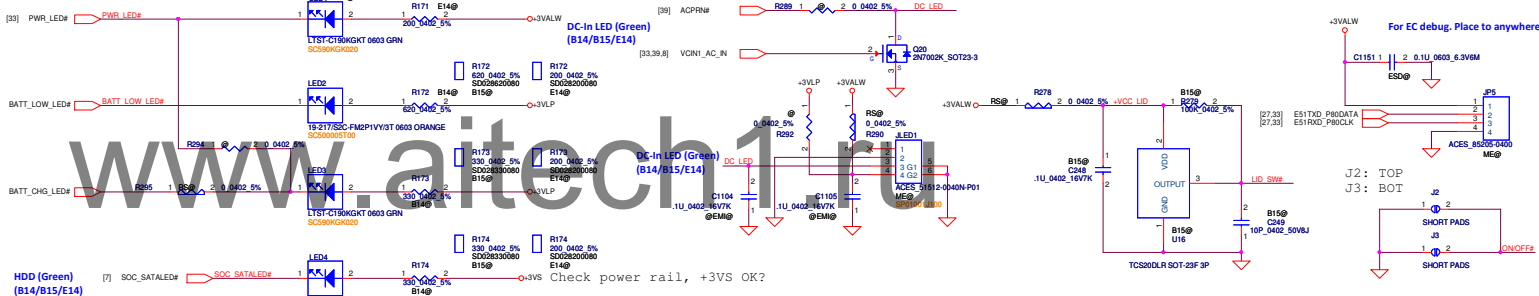
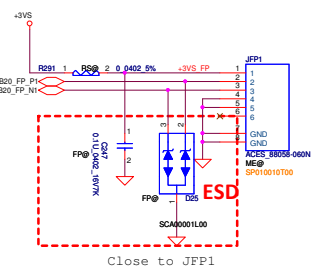
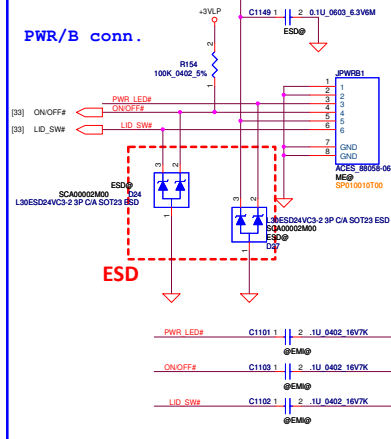
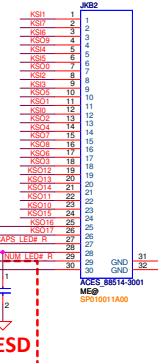
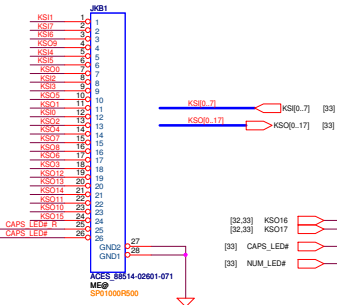
FAN Conn



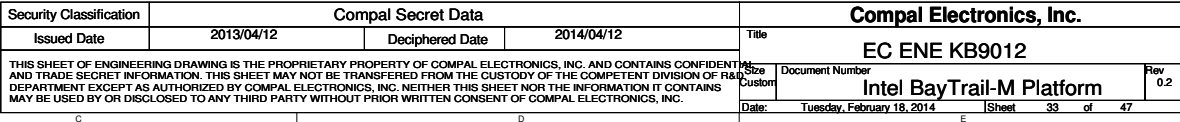
SMSC thermal sensor  
placed near JWLAN1

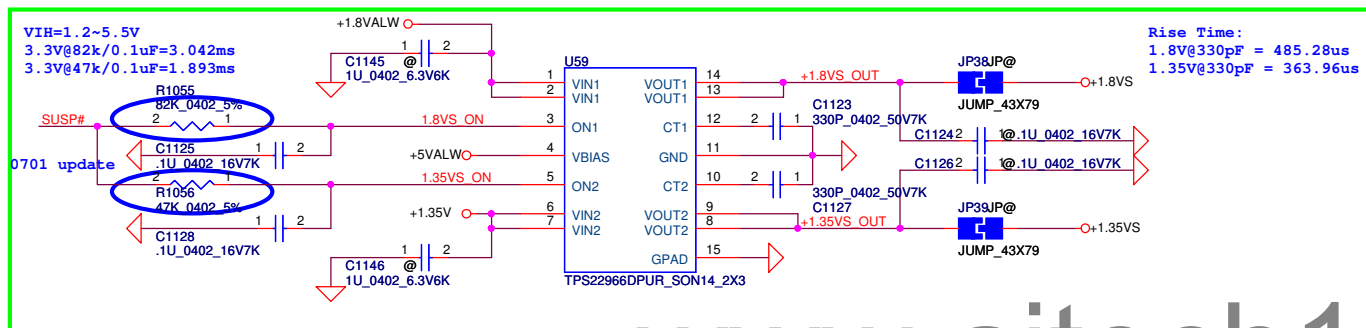
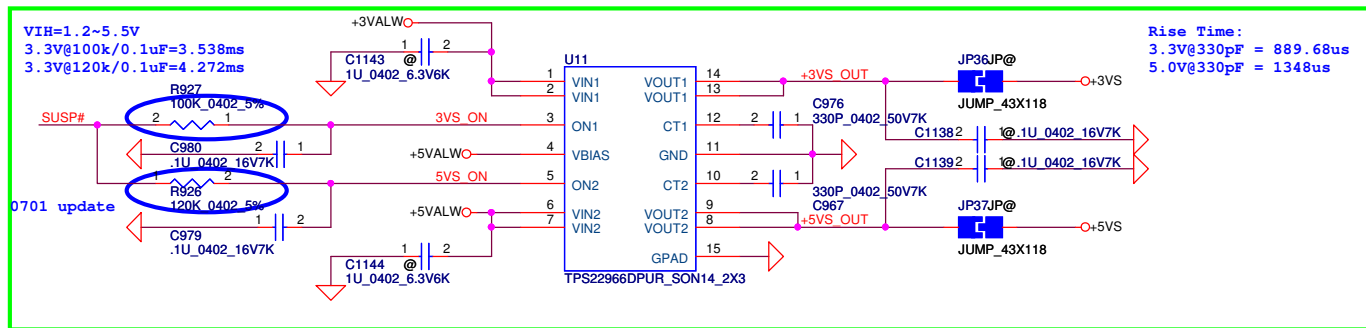


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Issued Date	2013/04/12	Deciphered Date	2014/04/12	Document Number	HDD/ODD/FAN/Screw Hole
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				Part Name	Intel Bay M-Platform
				Ver	31 (1 of 2)



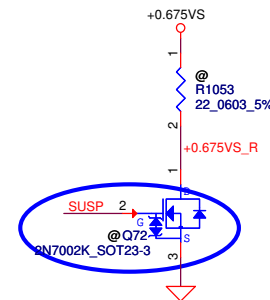
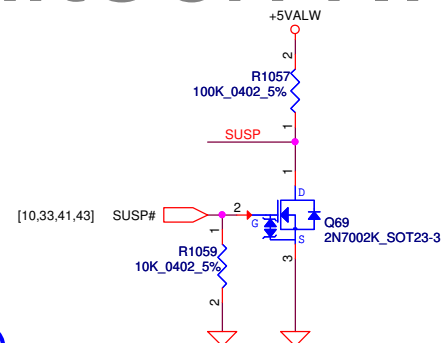
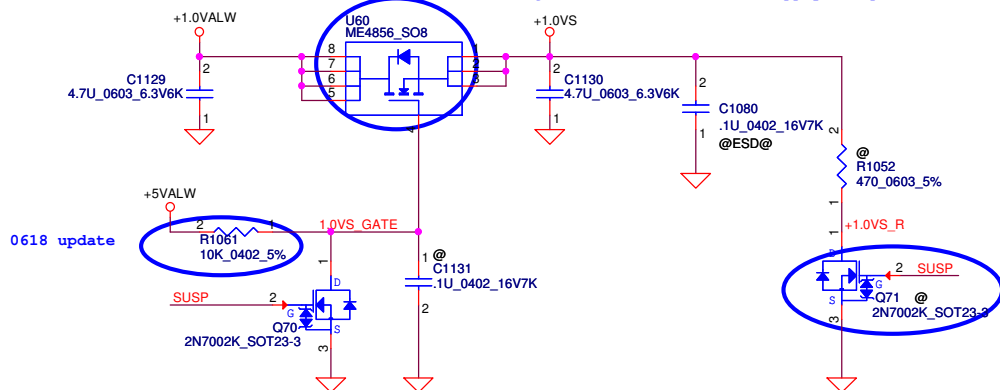
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Issued Date	2013/04/12	Deciphered Date	2014/04/12	KB/TP/LED/TPM	
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			Custom	2014 BayTrail M Platform	
Date:			Thursday, February 20, 2014	Sheet	35 of 47





+1.0VALW TO +1.0VS

0708:Change to SB00000PZ00 / need apply footprint



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Date: Tuesday, February 18, 2014		Sheet 34 of 47		Rev 0.2	

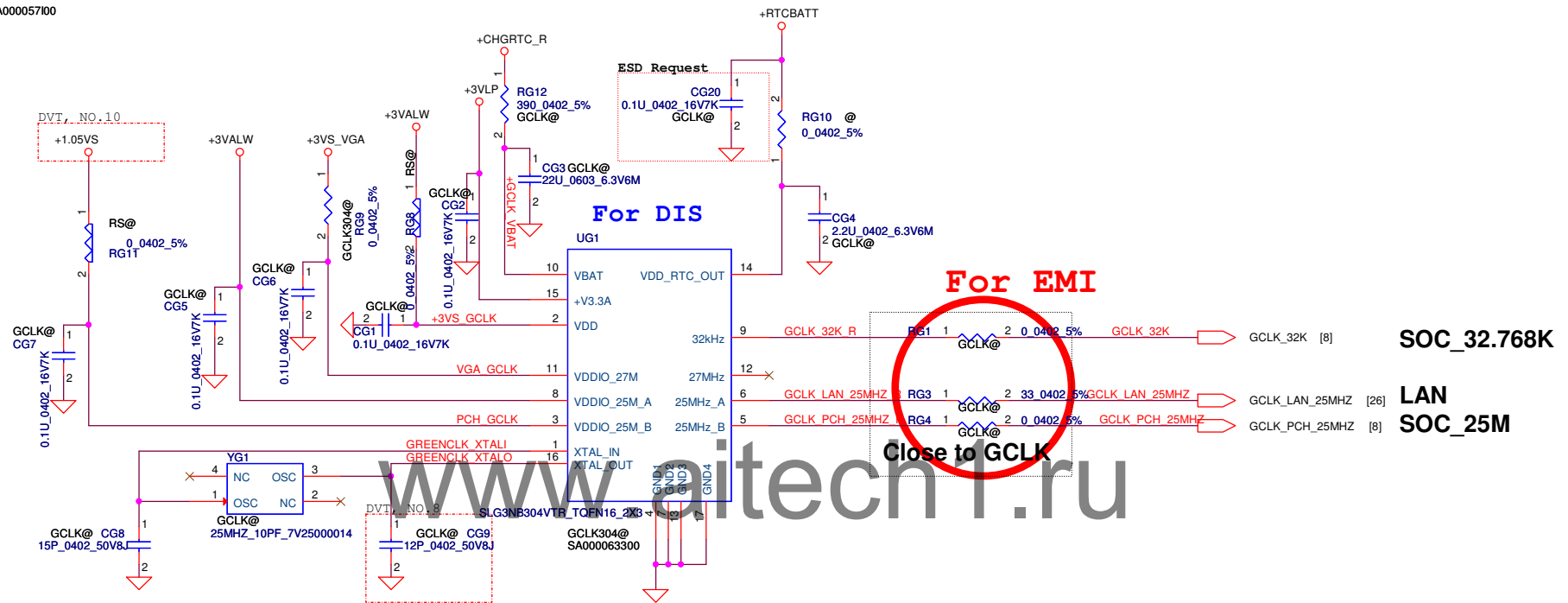
For UMA



SLG3NB244VTR\_TQFN16\_2X3

SA000057100

Every power trace need:  
W=20mils



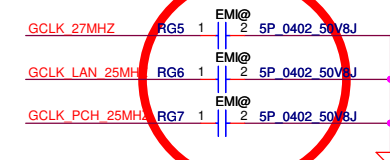
For EMI

SOC\_32.768K

LAN  
SOC\_25M

Close to GCLK

Reserved for Swing Level adjustment  
( Close GCLK side )

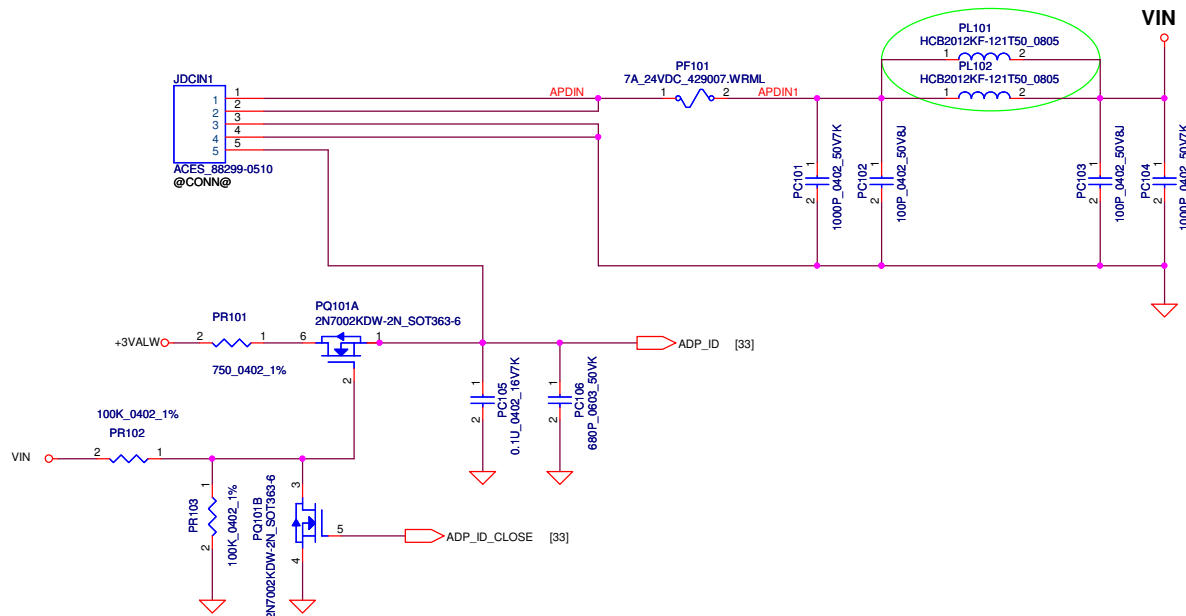


For EMI

Security Classification		Compal Secret Data		Title	
Issued Date	2012/10/11	Deciphered Date	2014/10/11	P35-GCLK	
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				Date:	Tuesday, February 18, 2014
				Sheet	35 of 47
				Rev	0.2

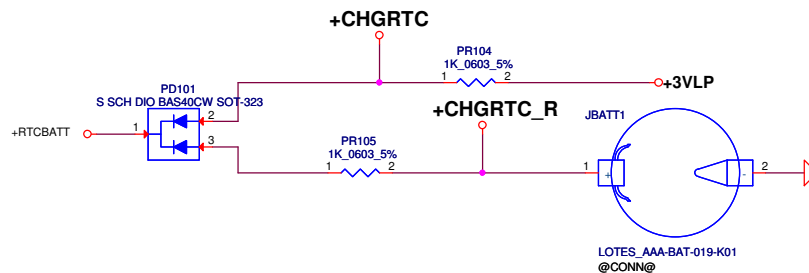
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Issued Date	2013/04/12	Deciphered Date	2014/04/12	Title HW RIR		
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				Date: Tuesday, February 18, 2014	Sheet 36	of 47



20131023  
Change PL101 to SM01000C000\*2 from SM010008E10

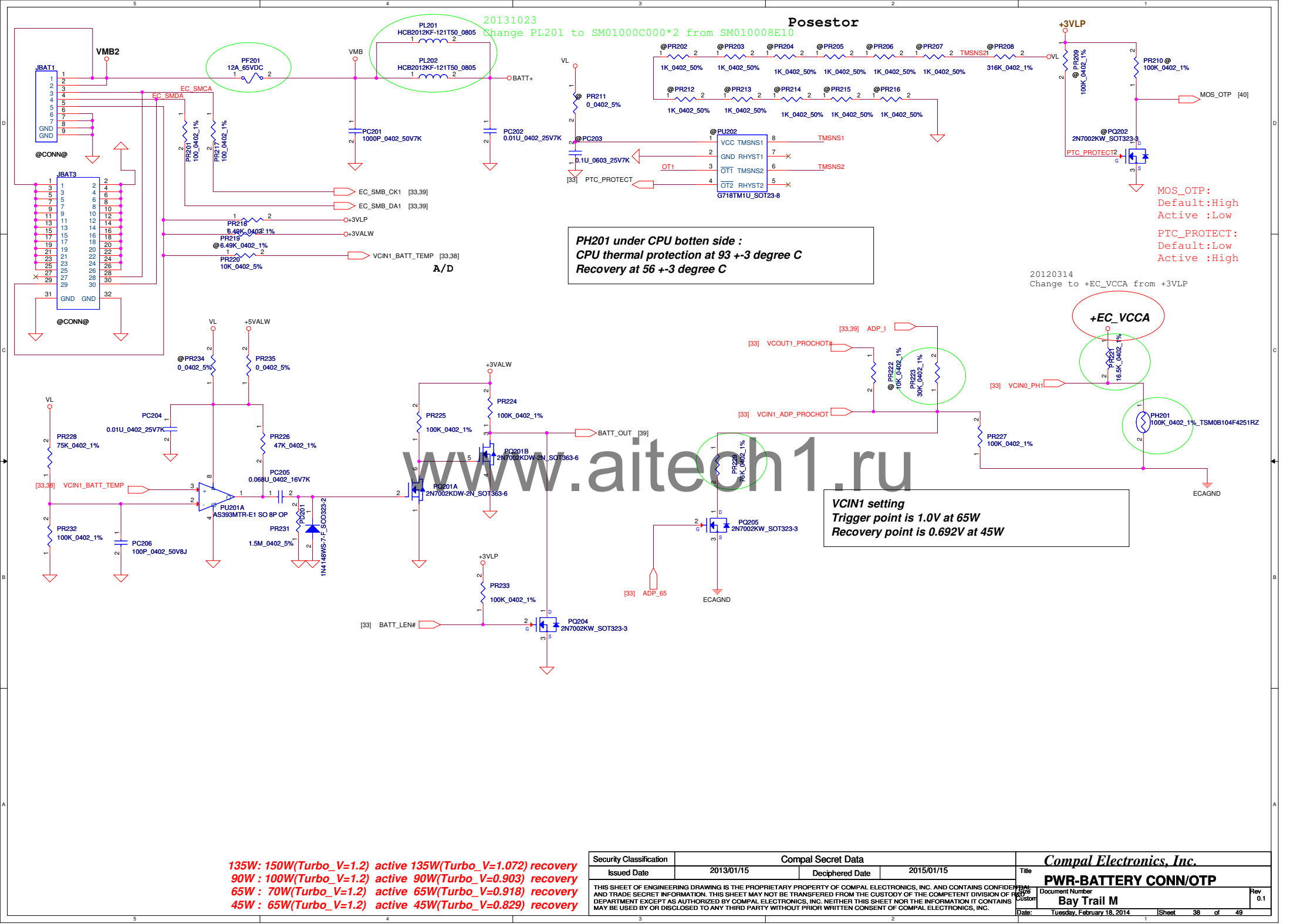
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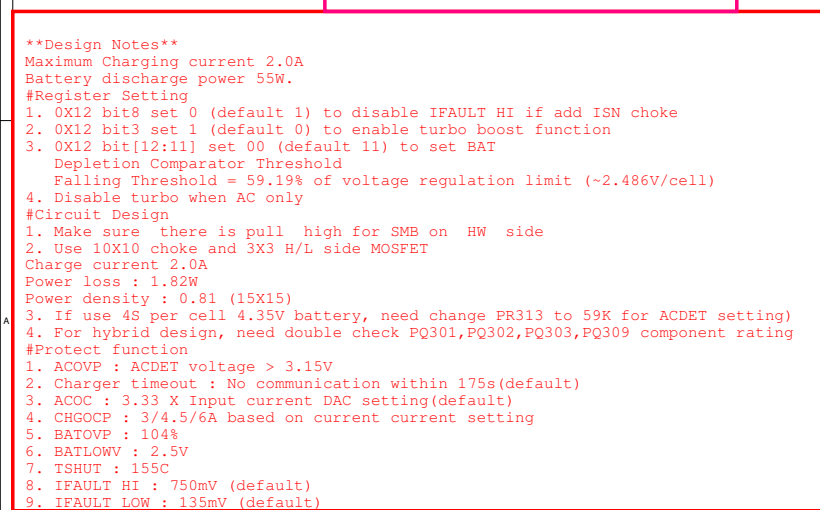


RTC Battery

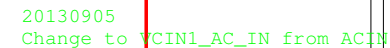
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2012/12/01	Deciphered Date	2013/07/10	Title	PWR-DCIN/PRECHARGE
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				Custom	0.1
				Bay Trail M	
				Date:	Sheet 37 of 49







20131028  
1.Change PQ314 to SB000009Q80 2N7002 from BJT SB301150200



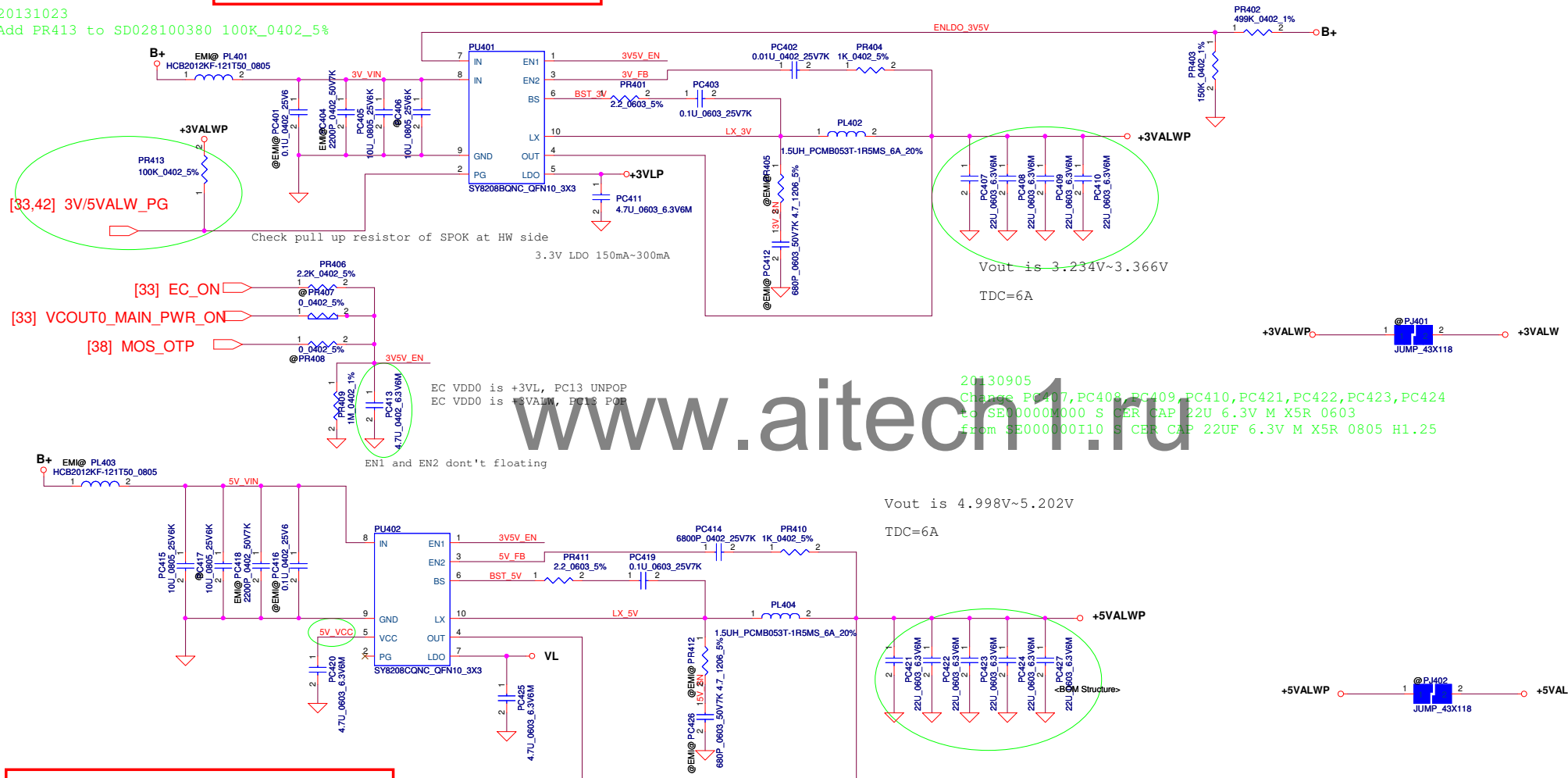
Security Classification		Compal Secret Data		Compal Electronics, Inc.		
Issued Date	2012/07/24	Deciphered Date	2012/07/24	Title <b>Charger BQ24727</b>		
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				BE BDW		
Date: Tuesday, February 18, 2014		Sheet		39	of	49

SY8208B\_V2.mdd

EN1 and EN2 dont't floating

20130905  
Change to 3V/5VALW\_PG from SPOK

20131023  
Add PR413 to SD028100380 100K\_0402\_5%



Module model information

SY8208C\_V2.mdd

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Issued Date		2011/06/15		Deciphered Date		2012/07/11		Title			
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								Document Number		Rev 0.1	
								Date: Tuesday, February 18, 2014		Sheet 40 of 49	

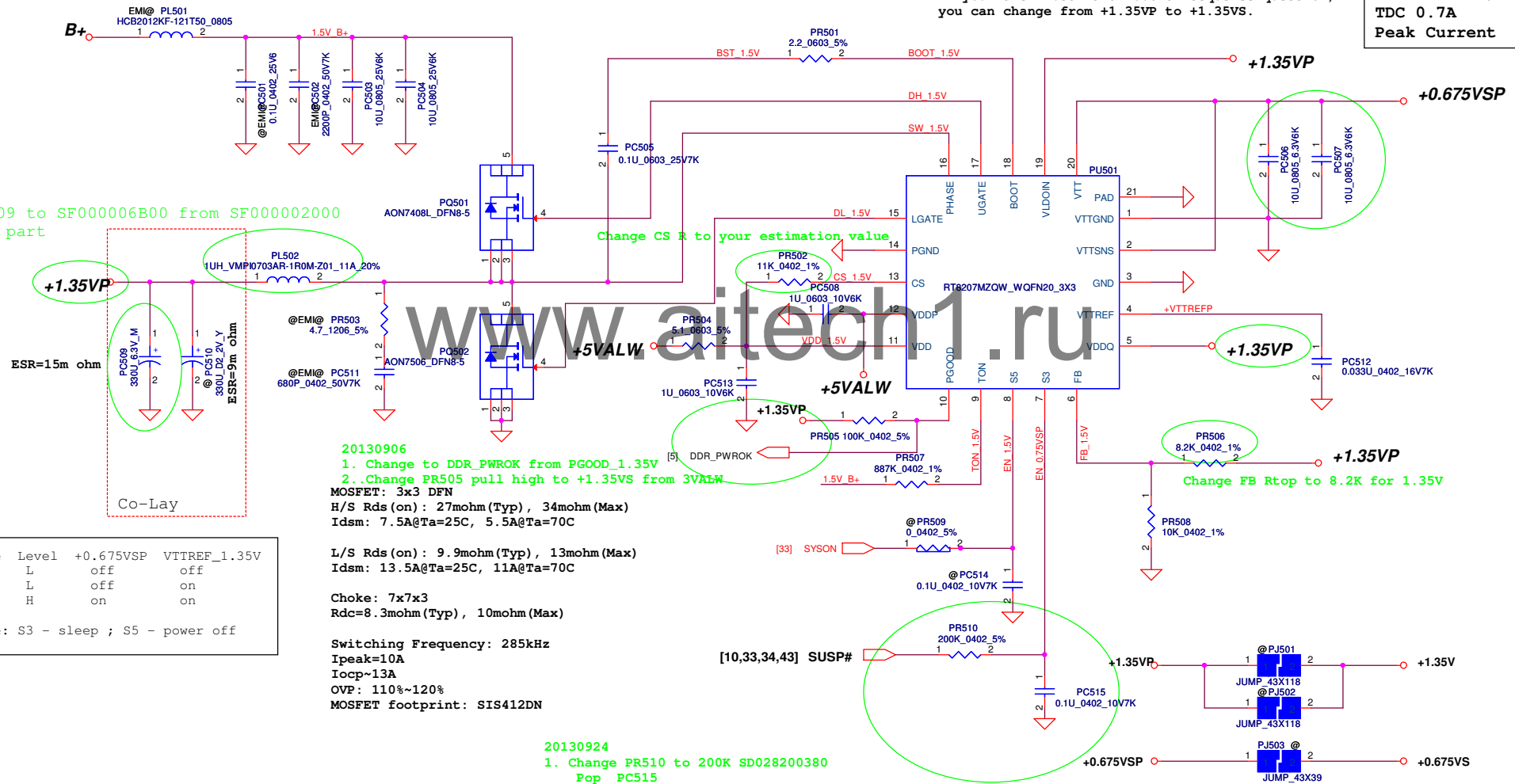
# Module model information

RT8207M\_V1.mdd For Single layer  
RT8207M\_V2.mdd For Dual layer

Pin19 need pull separate from +1.35VP.  
If you have +1.35V and +0.675V sequence question,  
you can change from +1.35VP to +1.35VS.

0.675Volt +/- 5%  
TDC 0.7A  
Peak Current 1A

20131023  
Change PC509 to SF000006B00 from SF000002000  
for common part



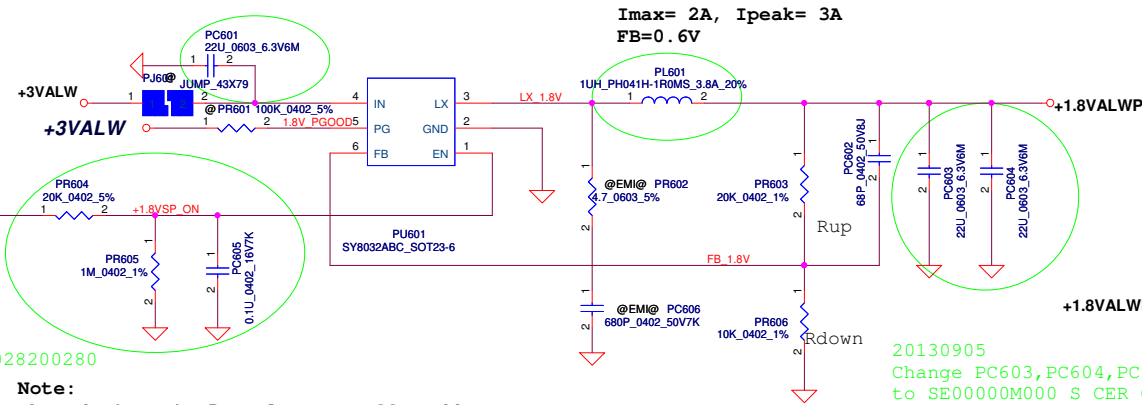
Security Classification		Compal Secret Data		<b>Compal Electronics, Inc.</b>			
Issued Date		2010/07/20	Deciphered Date	2012/12/31	Title		
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					Size	Document Number	Rev
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# Module model information

SY8032\_V1.mdd

20130913

Need to change PC702 to 0603 from 0805



20130905

Change to 3V/5VALW\_PG from SPOK

20130924

Change PR604 to 20K SD028200280

Pop PC605 to 0.1u

20130905

Change PC603, PC604, PC617, PC618 to SE00000M000 S CER CAP 22U 6.3V M X5R 0603 from SE000000I10 S CER CAP 22UF 6.3V M X5R 0805 H1.25

$$V_{out}=0.6V \cdot (1+R_{up}/R_{down})$$

20130924

1. Change PR607 to 10K SD028100280

Pop PC607 to 0.1U\_0402\_16V7K SE076104K80

EN pin don't floating  
If have pull down resistor at HW side, pls delete PR2

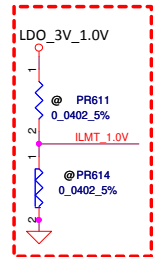
20130905

Change to 3V/5VALW\_PG from SPOK

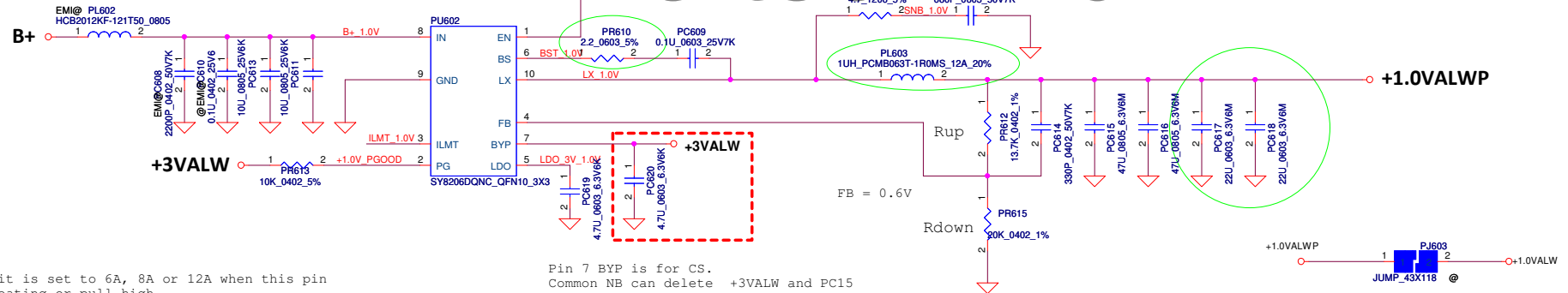
SY8206D\_V1.mdd

Module model information

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The current limit is set to 6A, 8A or 12A when this pin is pull low, floating or pull high



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								PWR-1.8VALW/1.0VALW	
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# Module model information

20130913  
Need to change PC702 to 0603 from 0805

Imax= 2A, Ipeak= 3A  
FB=0.6V

DIS:SY8003  
UMA:SY8032

20130924  
Change PR701 to 2.55k 1% SD034255180  
Pop PC703 to 0.1u  
unpop PR710

Note:  
When design Vin=5V, please stuff snubber  
to prevent Vin damage

$$V_{out}=0.6V \cdot (1+R_{up}/R_{down})$$

20130905  
Change PR702 to 75K SD034750280  
PR705 to 100K SD034100380

20130905  
Change PC701,PC703,PC704,PC711  
to SE00000M000 S CER CAP 22U 6.3V M X5R 0603  
from SE000000I10 S CER CAP 22UF 6.3V M X5R 0805 H1.25

2013/5/13  
Change PR714 from 100kto 47k  
Change PR720 from 47kto 100k  
change input cap from 0805 to 0603

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VFB=0.6V  
Vout=0.6V \* (1+Rup/Rdown)  
Vout=1.011V

Ultra Low Dropout 0.23V(typical) at 3A Output Current

2013/5/13  
Change PR716 from 47kto 100k

20130924  
Change PR706 to 51K SD028510280  
Pop PC710 0.15U\_0402\_10V6K SE00000H300  
unpop PR708

$$V_{out}=0.8V \cdot (1+R_{up}/R_{down})$$

$$V_{out}=1.512V$$

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Power module of ISL95833 VR  
for 4.5W processor

PR15 and PR27  
27.4K ohm for 100 degree  
61.9K ohm for 110 degree

Alert assert  
threshold: 100C

Close GFX choke

Close GFX L/S MOS

+3VALW

+5VALW

VR\_Hot# assert  
threshold: 100C

Close CPU L/S MOS

Close CPU choke

SOC\_VNN OCP is around 21A  
SOC\_VCC OCP is around 19A

20130905  
1. Del PC940 33U\_25V\_M  
2. Change PC939 to 68U\_25V\_M R0.36 SF000000W00  
From 33U\_25V\_M SF000005200

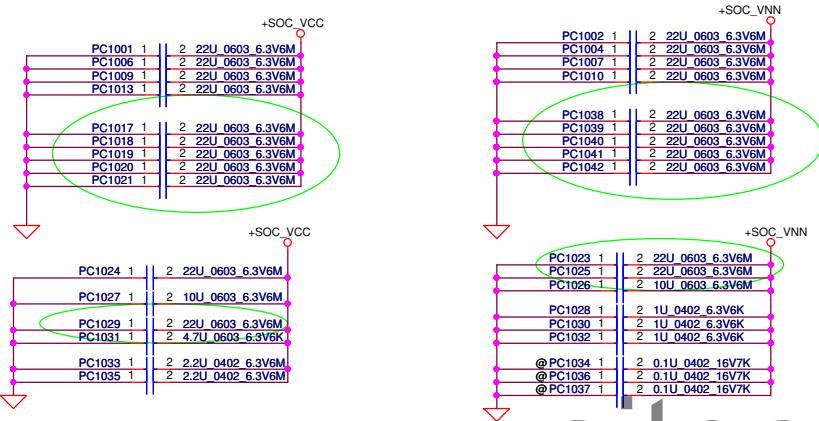
0.22uH DCR= 0.97+-5% m ohm, Idc-Isat= 25-34A

For VR\_Hot#, already  
pull high at PWR side.

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22uF 0805 size change to 0603



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Item	Fixed Issue	Reason for change	Rev.	PG#	Modify List	Date	Phase
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