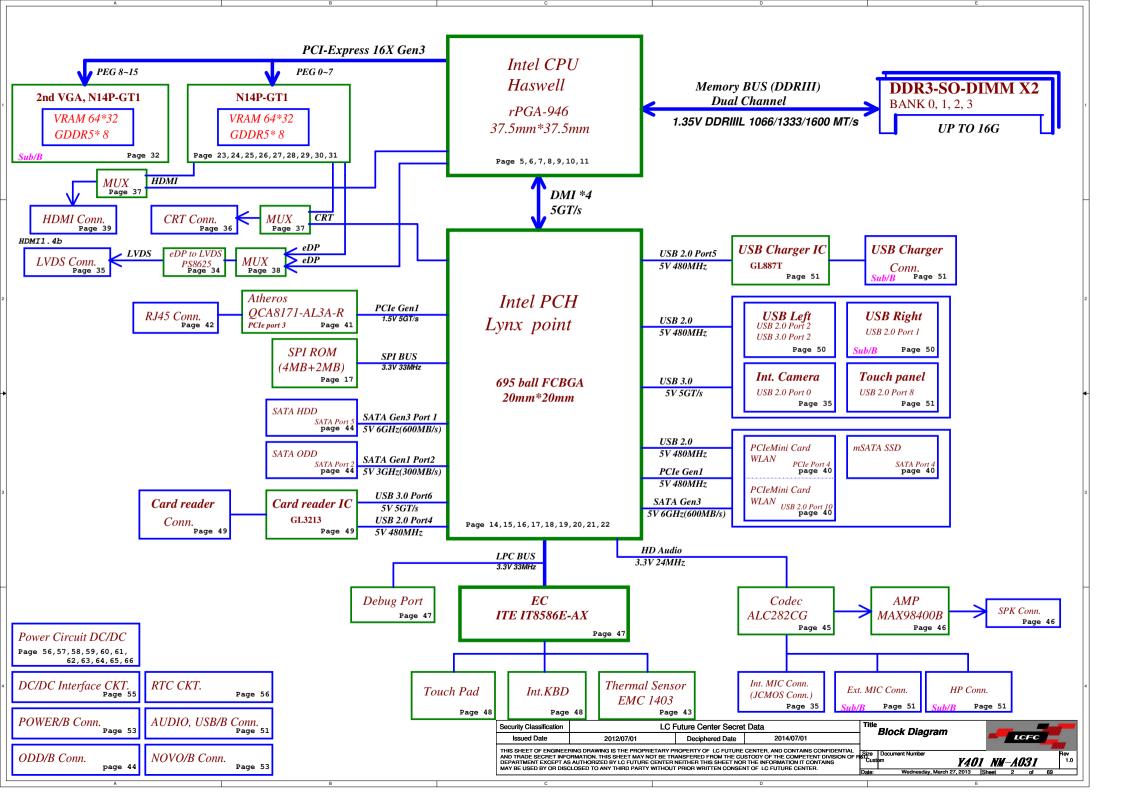
VIQY0 (Y410)

NM_A031 Rev1.0 Schematic

Intel Haswell Processor with DDRIII + Lynx point PCH nVIDIA N14P GT + 2nd VGA N14P GT

2013-03-19 Rev1.0

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Voltage Rails (O --> Means ON , X --> Means OFF)

Voltage Halls (©		,	,	
Power Plane State	B+	+3VALW +5VALW	+1.5V	+5VS +3VS +1.5VS +VCCSA +V1.5S_VCCP +CPU_CORE +VGA_CORE +GFX_CORE +1.8VS +1.05VS +0.75VS +3.3VS_VGA +1.5VS_VGA +1.5VS_VGA
S0	0	0	0	0
<i>s</i> 3	0	0	0	x
S5 S4/AC Only	0	0	x	x
S5 S4 Battery only	0	x	x	x
S5 S4 AC & Battery don't exist	х	х	х	х

STATE	SLP_S1#	SLP_S3#	SLP_S4#	SLP_S5#	+VALW	+V	+VS	Clock
Full ON	HIGH	HIGH	HIGH	HIGH	ON	ON	ON	ON
S1 (Power On Suspend)	LOW	HIGH	HIGH	HIGH	ON	ON	ON	LOW
S3 (Suspend to RAM)	LOW	LOW	HIGH	HIGH	ON	ON	OFF	OFF
S4 (Suspend to Disk)	LOW	LOW	LOW	HIGH	ON	OFF	OFF	OFF
S5 (Soft OFF)	LOW	LOW	LOW	LOW	ON	OFF	OFF	OFF

USB Port Table

USB 2.0	USB 3.0	Port	4 External USB Port
		0	Camera
	XHCI	1	USB Port (Right Side)
EHCI1	2	2	USB Port (Left Side)
		3	
	4	4	Card Reader
		5	USB Port (Right Side)
		6	
		7	
EHCI2		8	
BIICIZ		9	
		10	Mini Card(WLAN)
		11	
		12	
		13	

BOM Structure Table

BOM Structure	BTO Item
GT@	NV GT750M
GT1@	NV GT755M
CMOS@	CMOS Camera part
SURGE@	QCA8171 LAN surge part
X76@	X76 Level part for VRAM
GC6@	NV CG6 support part
NOGC6@	NV no CG6 support part
AOAC@	AOAC support part
KBL@	K/B Light part
ME@	ME part
@	Unpop
DS3@	Deep S3 support part
daul@	Support daul channel panel function
887T@	GENESYS 887T USB charger solution
887@	GENESYS 887 USB charger solution
TI@	TI USB charger solution
EDP@	Support EDP panel function
SLI@	For SLI function part
47 w @	For 47W CPU part
37 w @	For 37W CPU part
·	

SMBUS Control Table

	SOURCE	Main VGA	2nd VGA	BATT	IT8580E	SODIMM	WLAN WiMAX	Thermal Sensor	PCH	TP Module
EC_SMB_CK1 EC_SMB_DA1	IT8580E +3VALW	X	x	V +3VALW	X	X	х	x	х	х
EC_SMB_CK2 EC_SMB_DA2	IT8580E +3VS	V +3VS	V +3VS	X	X	X	х	V +3VS	V +3V_PCH	X
SMB_CLK_S3 SMB_DATA_S3	PCH +3VS	X	X	X	X	V +3VS	V +3vs	X	V +3V_PCH	V +3vs

PCIE PORT LIST

Port	Device
1	
2	
3	
4	LAN
5	WLAN
6	
7	
8	

EC SM Bus1 address

0001 011X b

Device

Smart Battery

EC SM Bus2 address

DeviceThermal Sensor EMC1403-2
Master VGA
Slave VGA

Address 1001_101xb 0x9E

0x9C

ress _101xb

PCH SM Bus address

 Device
 Address

 DDR DIMM0
 1001 000Xb

 DDR DIMM2
 1001 010Xb

DAZ0SD00100

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2012/07/01

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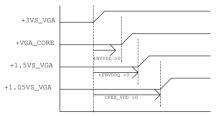
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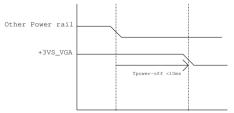
Hot plug detect for IFP link E

VGA and GDDR5 Voltage Rails (N14Px GPIO)

V GA ai	ia abi	J113 VO	itage rialis (IVI-41 X GI 10)			
GPIO	I/O	ACTIVE	Function Description			
GPIO0	IN	-	FB_CLAMP_MON			
GPIO1	OUT	-	NA			
GPIO2	OUT	_	VGA_BL_PWM			
GPIO3	OUT	_	VGA ENVDD			
GPIO4	OUT	-	VGA_ENBKL			
GPIO5	OUT	-	NA			
GPIO6	OUT	-	FB_CLAMP_TOGGLE_REQ#			
GPIO7	OUT	-	NA			
GPIO8	OUT	-	OVERT#			
GPIO9	OUT	-	VGA_ALERT#			
GPIO10	OUT	-	Memory VREF Control			
GPIO11	OUT	-	NVVDD PWM_VID			
GPIO12	IN	-	AC Power Detect Input (10K pull High)			
GPIO13	OUT	-	DPRSLPVR_VGA			
GPIO14	OUT	-	NA			
GPIO15	IN	-	NA			
GPIO16	OUT	-	NA			
GPIO17	IN	-	VGA_EDP_HPD			
GPIO18	IN	-	DGPU_HDMI_HPD			
GPIO19	IN	_	NA NA			



1. all power rail ramp up time should be larger than 40us



1.all GPU power rails should be turned off within 10ms 2. Optimus system VDD33 avoids drop down earlier than NVDD and FBVDDQ

Performance Mode P0 TDP at Tj = 102 C* (GDDR5)

	GPU (4)	Mem (1,5)	NVCLK /MCLK		NVVDD)	FB\ (1.3	/DD (5V)	FBVD (GPU (1.35)	+Mem)	PCI E (1.05\ (6)	xpress /)	I/O an PLLV (1.8V)	DD	I/O an PLLV (1.05)	DD	Oth (3.3	
Products	(W)	(W)	(MHz)	(V)	(A)	(W)	(A)	(W)	(A)	(W)	(mA)	(W)	(mA)	(W)	(mA)	(W)	(mA)	(W)
N14X 128bit 1GB GDDR5	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD

Physical		Logical	Logical	Logical	Logical
Strapping pin	Power Rail	Strapping Bit3	Strapping Bit2	Strapping Bit1	Strapping Bit0
ROM_SCLK	+3VS_VGA	PCI_DEVID[4]	SUB_VENDOR	SLOT_CLK_CFG	PEX_PLL_EN_TERM
ROM_SI	+3VS_VGA	RAM_CFG[3]	RAM_CFG[2]	RAM_CFG[1]	RAM_CFG[0]
ROM_SO	+3VS_VGA	FB[1]	FB[0]	SMB_ALT_ADDR	VGA_DEVICE
STRAP0	+3VS_VGA	USER[3]	USER[2]	USER[1]	USER[0]
STRAP1	+3VS_VGA	3GIO_PAD_CFG_ADR[3]		3GIO_PAD_CFG_ADR[1]	3GIO_PAD_CFG_ADR[0]
STRAP2	+3VS_VGA	PCI_DEVID[3]	PCI_DEVID[2]	PCI_DEVID[1]	PCI_DEVID[0]
STRAP3	+3VS_VGA	SOR3_EXPOSED	SOR2_EXPOSED	SOR1_EXPOSED	SORO_EXPOSED
STRAP4	+3VS_VGA	RESERVED	PCIE_SPEED_ CHANGE_GEN3	PCIE_MAX_SPEED	DP_PLL_VDD33V

	Device ID
N14P-GT (28nm)	0x0FCD

	setting	I2C Slave addrees ID
SMB_ALT_ADDR (ROM_SO Bit 1)	0	0×9E
	1	0x9C

	GPU	ROM_SO	ROM_SCLK	STRAP0	STRAP1	STRAP2	STRAP3	STRAP4
	N14P-GT 28nm	PU 10K	PD 15K	PU 45K	PD 5K	PD 25K	PU 5K	PD 45K
		PU 20K	PU 25K	PU 45K	PD 35K	PD 10K	PD 5K	PD 10K

	Maste
ĸ	Slave

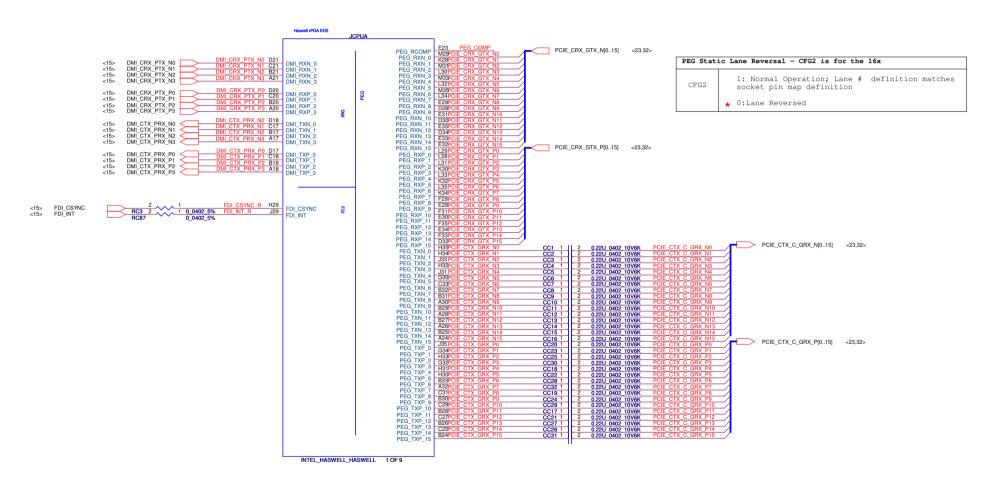
	GPU	N14P-GT	N14P-GT1	
FB Mer	mory (GDDR5)	ROM_SI	ROM_SI	
Samsung	K4G20325FD-FC03			
3000MHz	64Mx32		PD 30K	
Hynix 3000MHz	H5GQ2H24AFR-R0C			
	64Mx32		PD 25K	
Samsung 2500MHz	K4G20325FD-FC04			
	64M×32	PD 30K		
Hynix 2500MHz	H5GQ2H24AFR-T2C			
	64Mx32	PD 25K		

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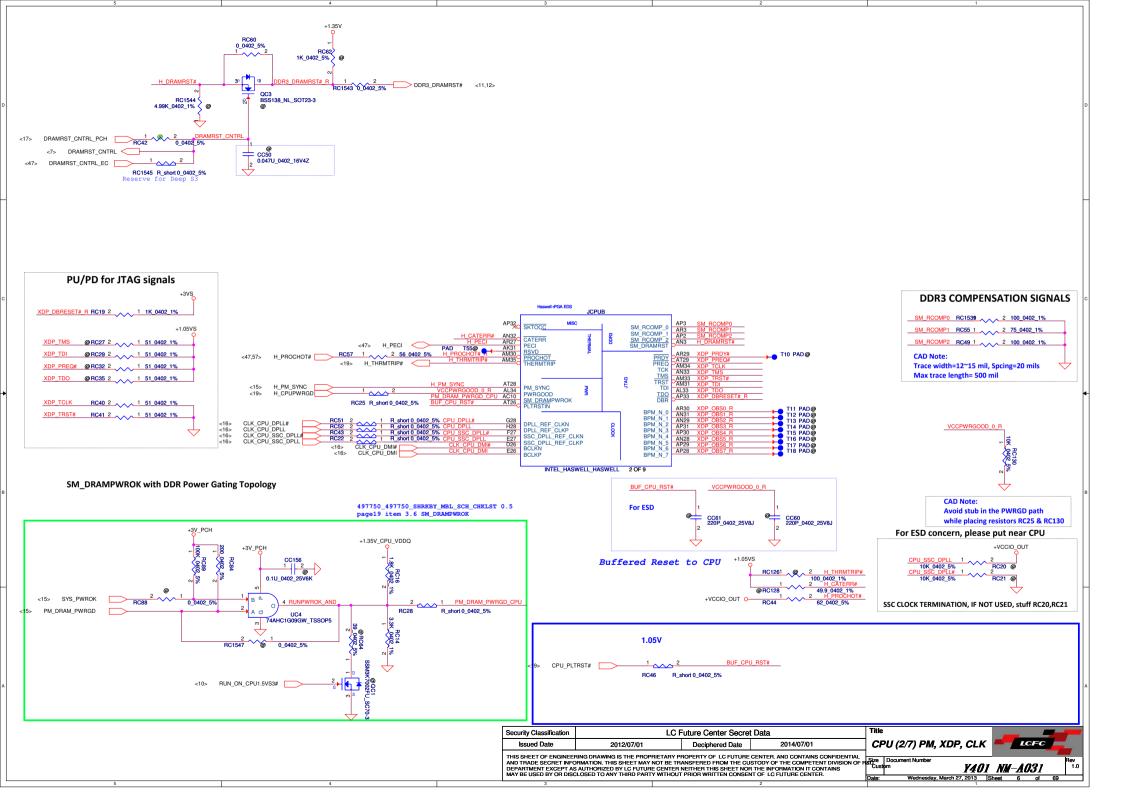
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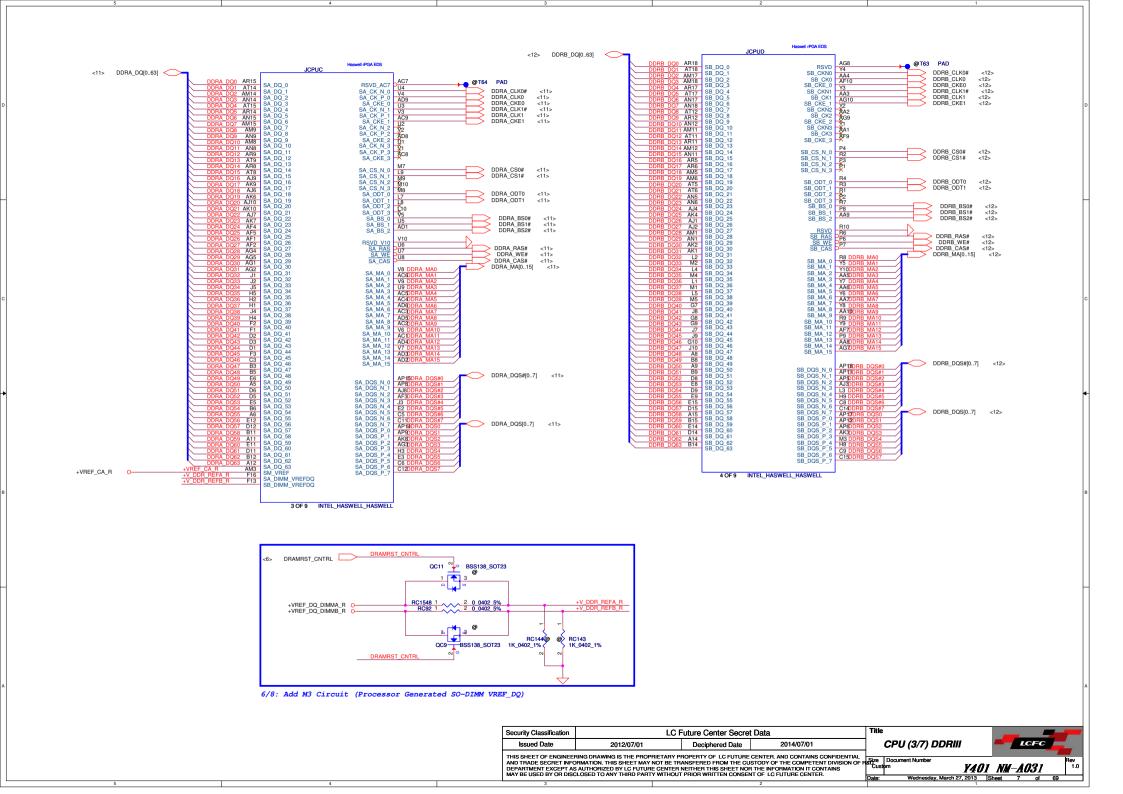


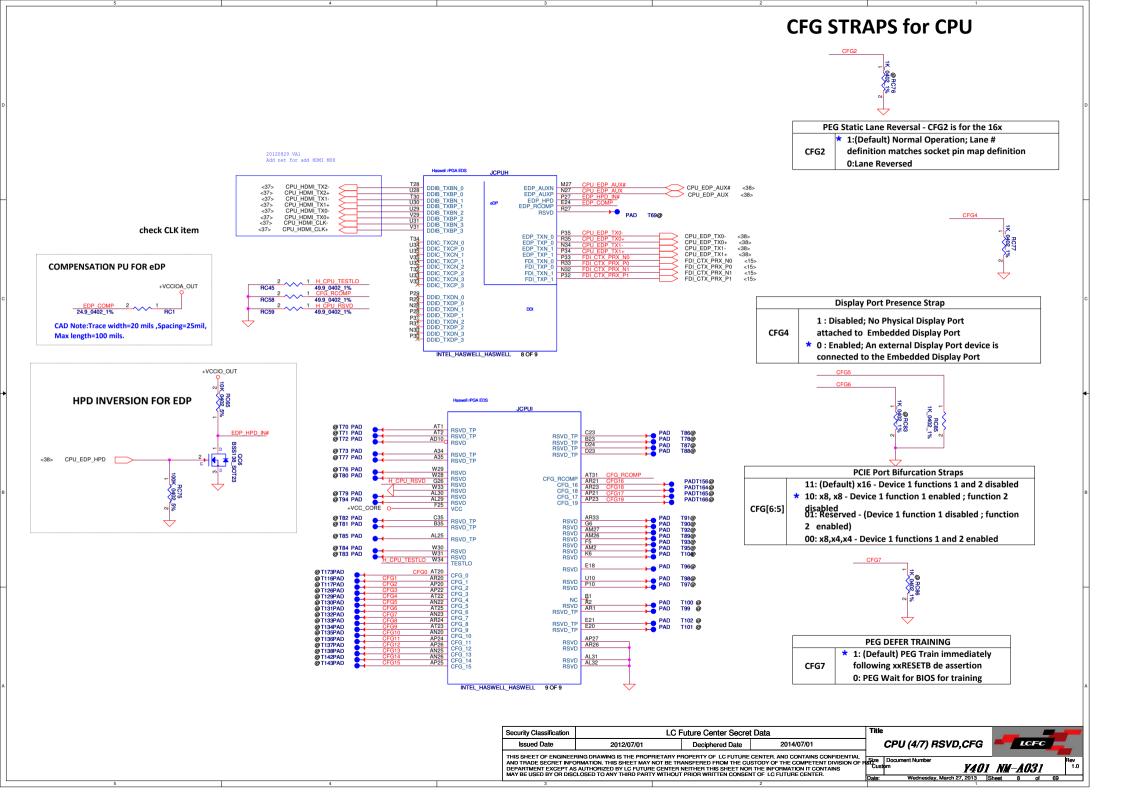


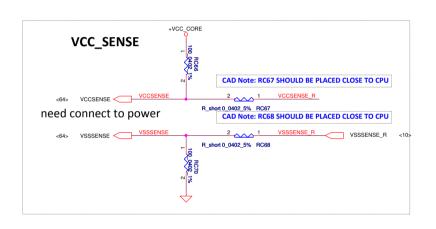


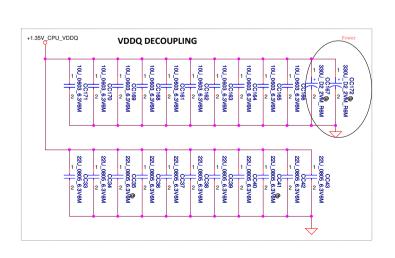
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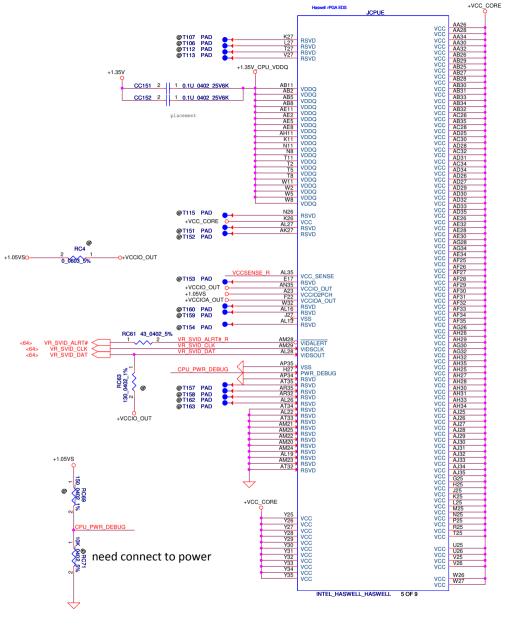




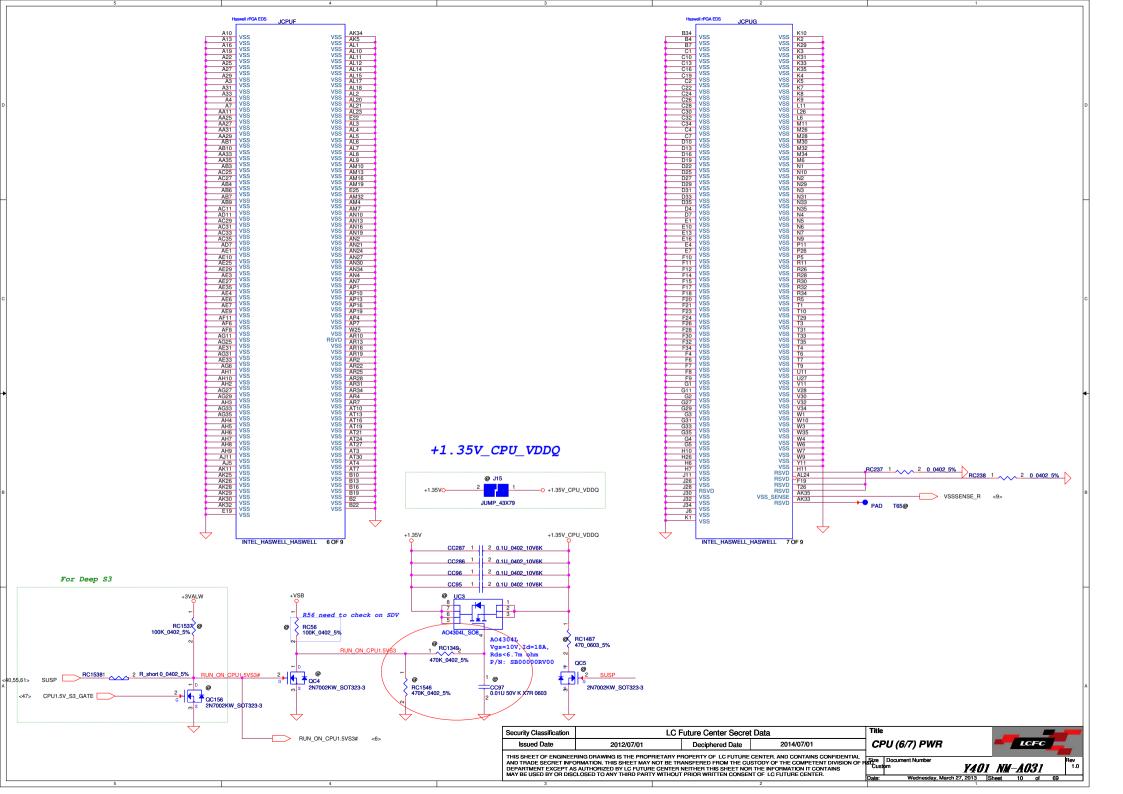


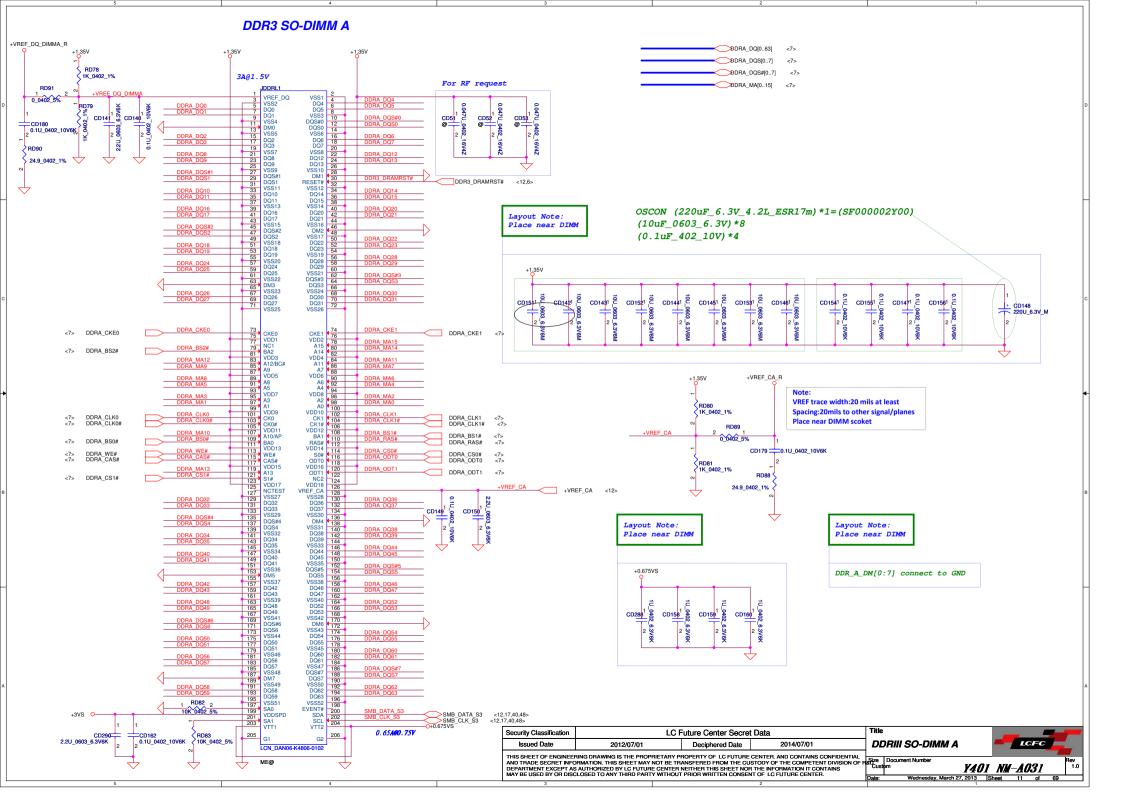


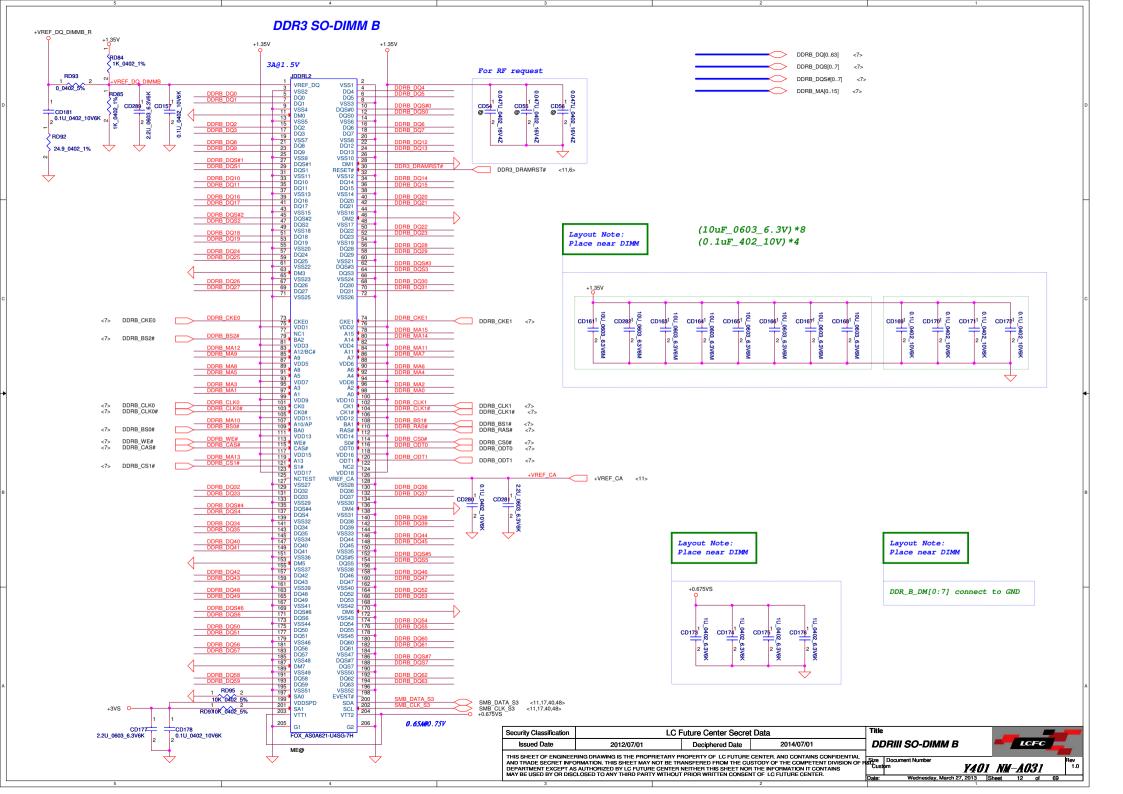


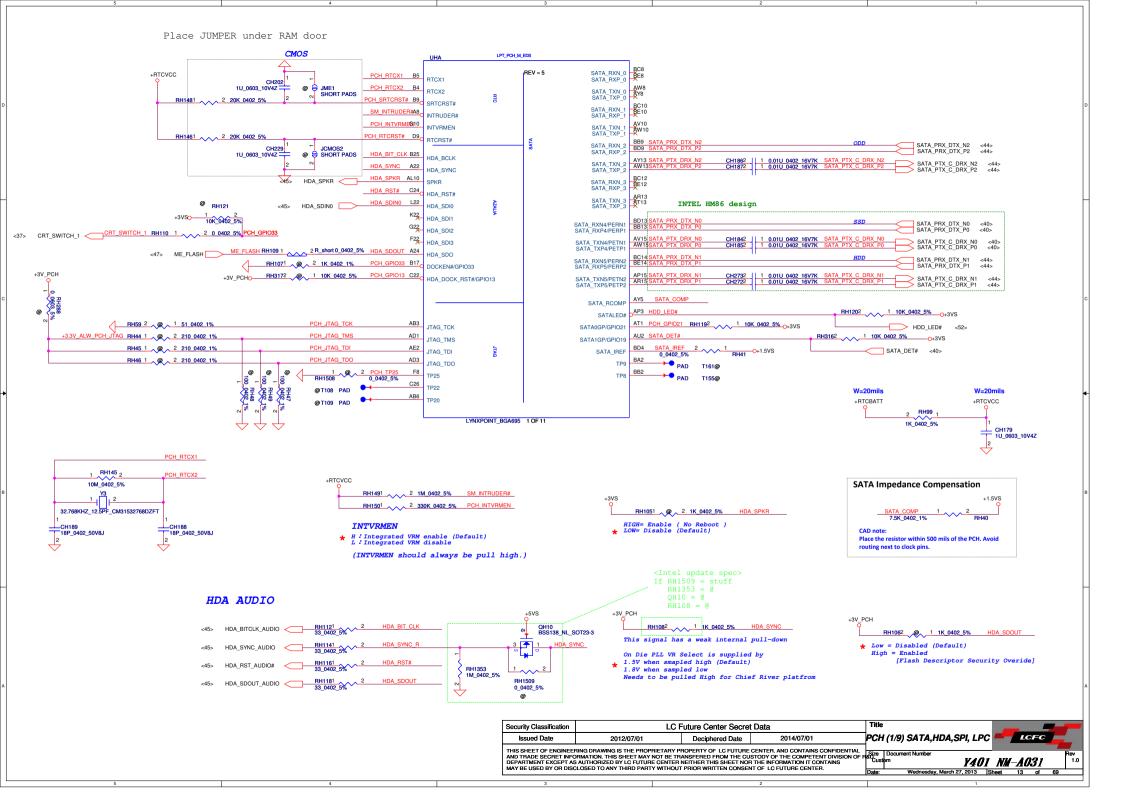


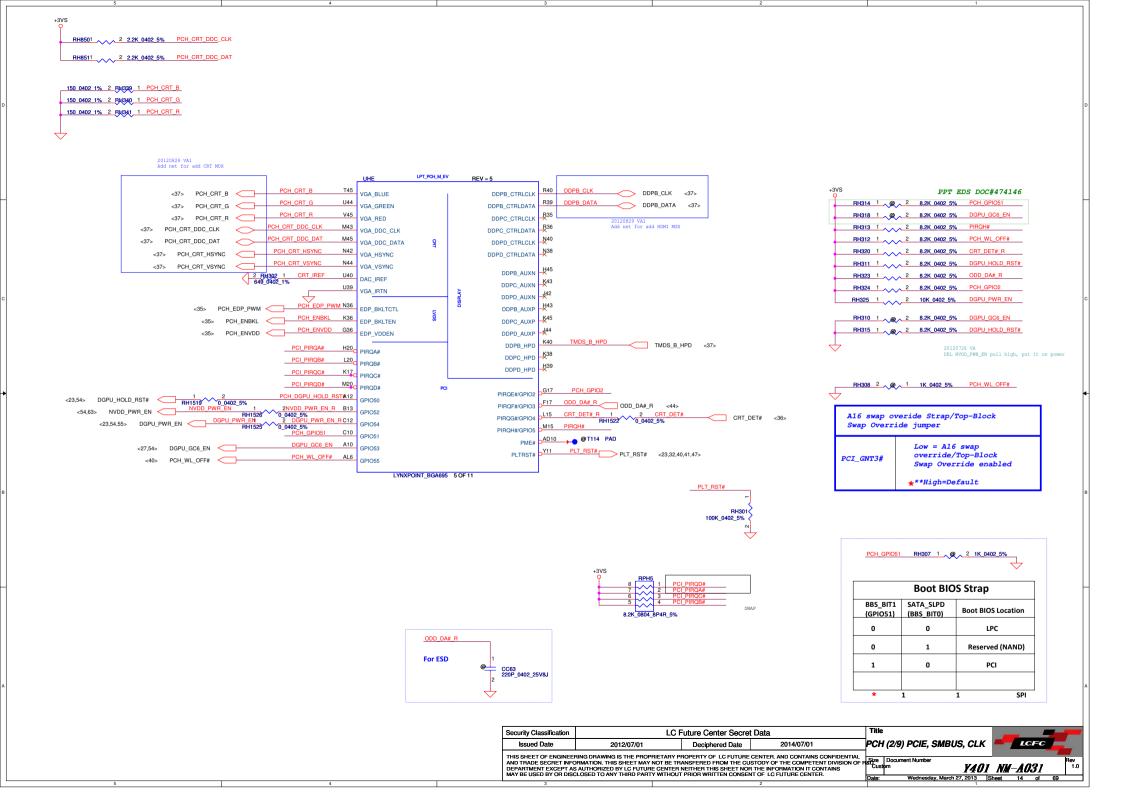
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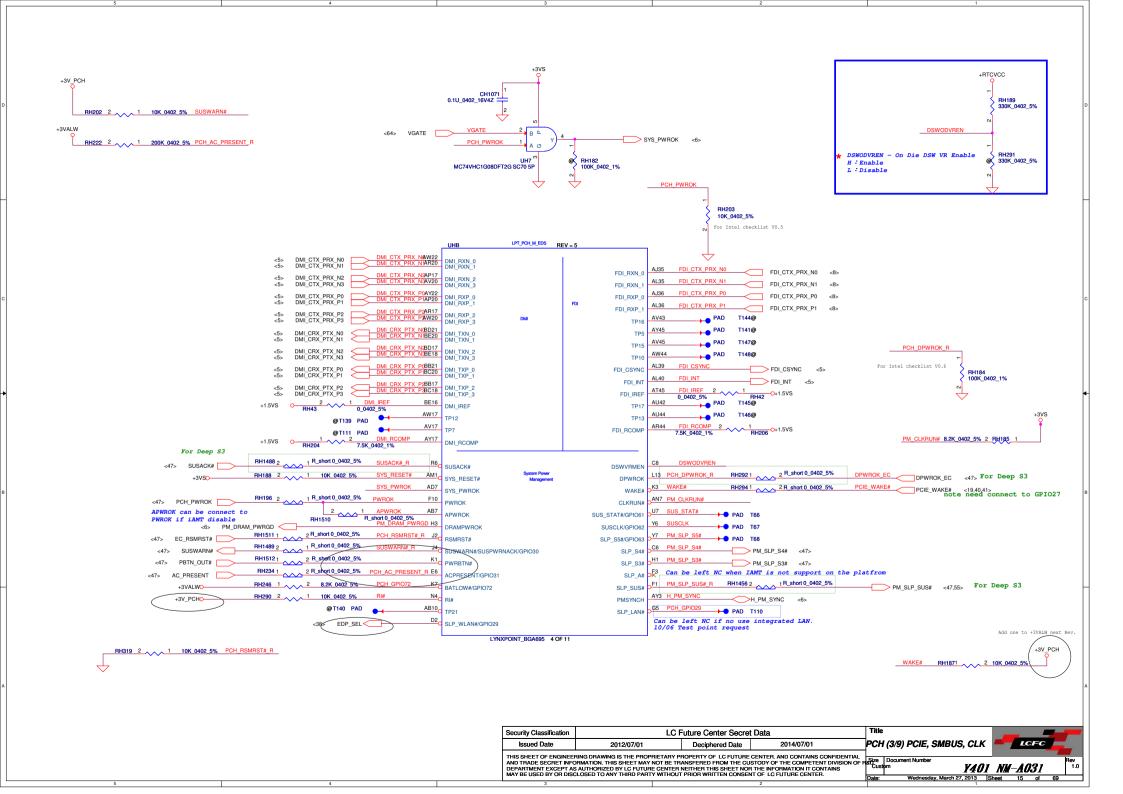


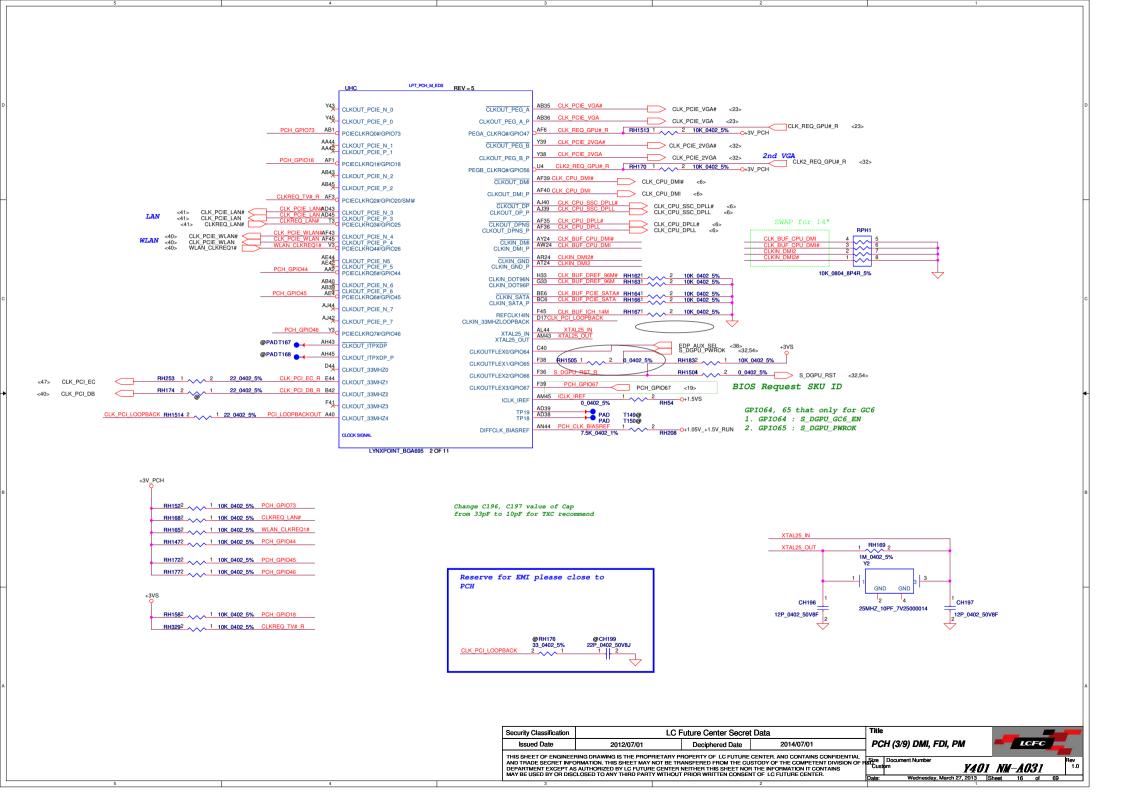


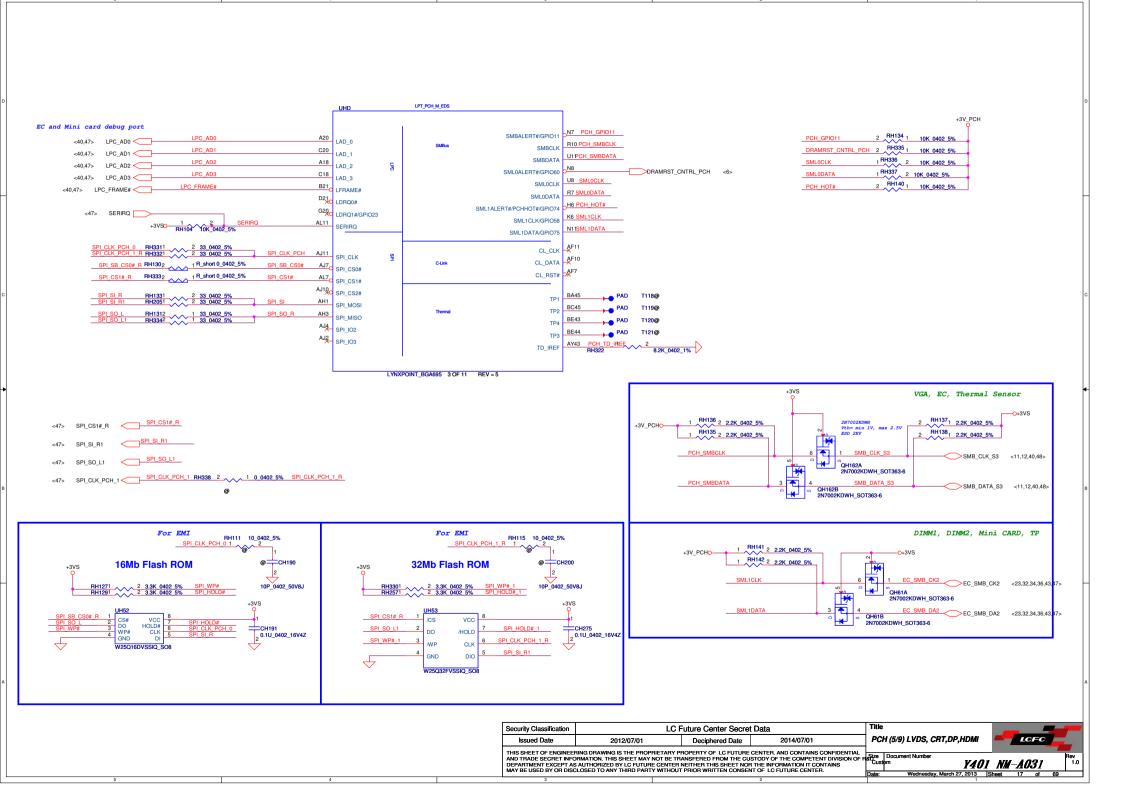


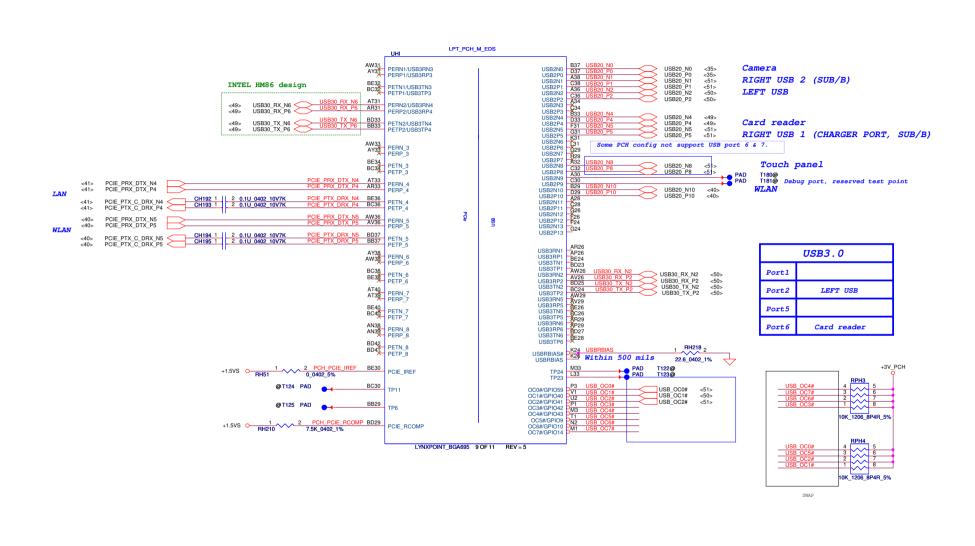


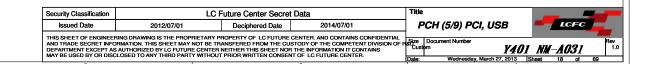


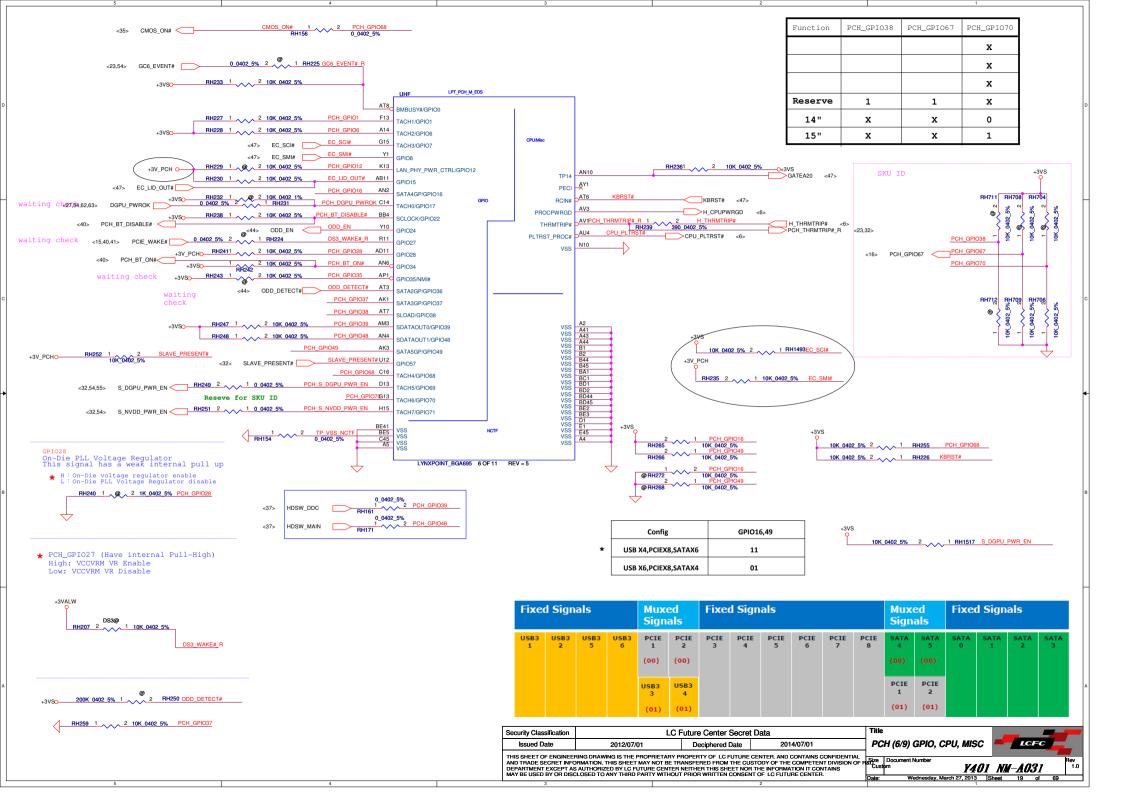


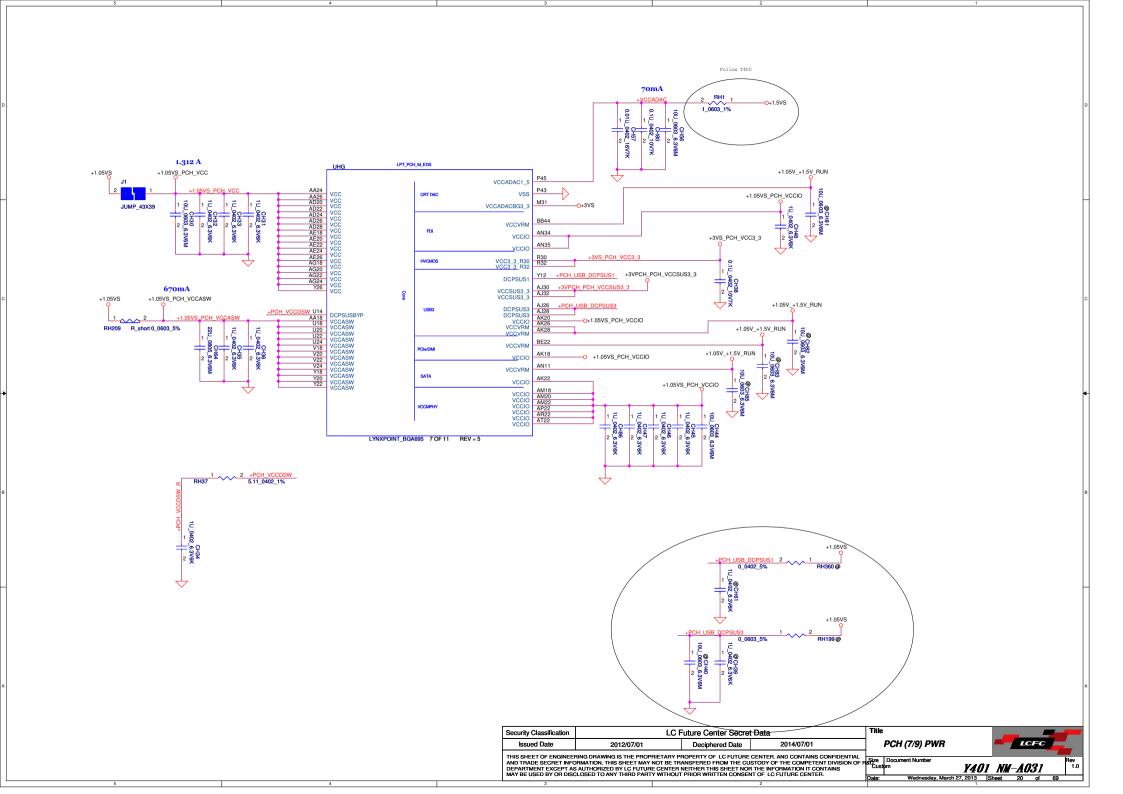


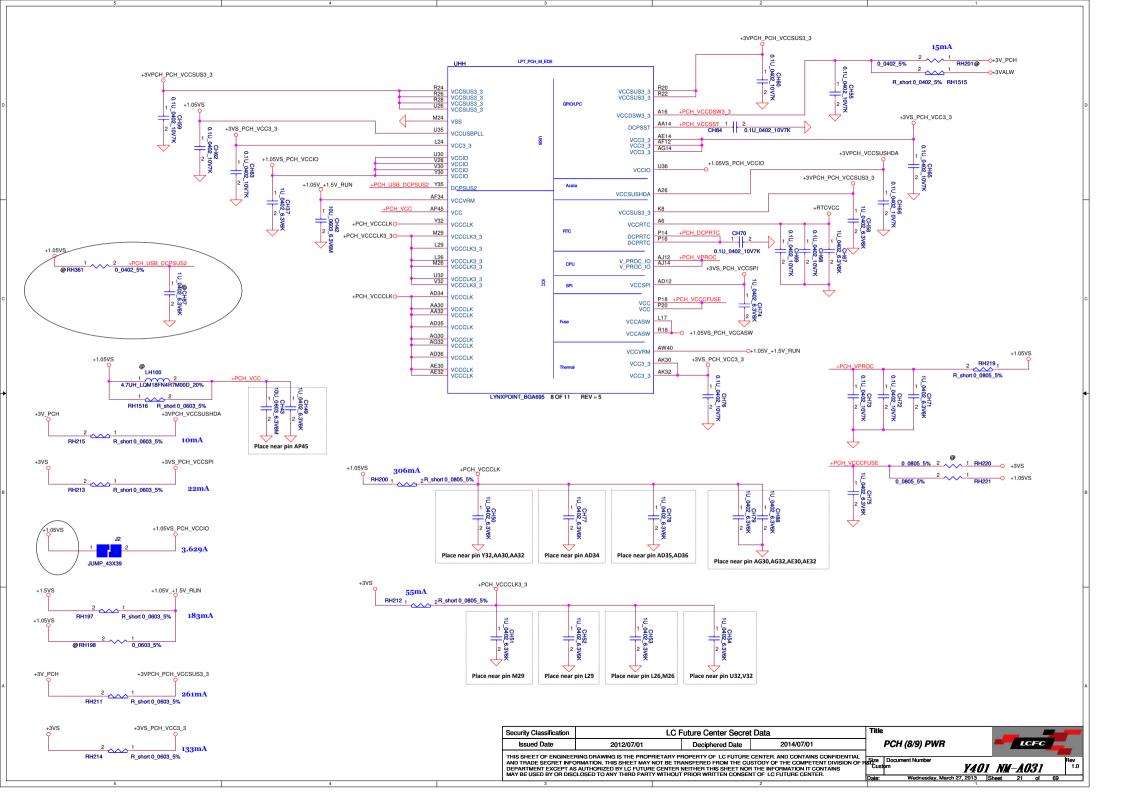


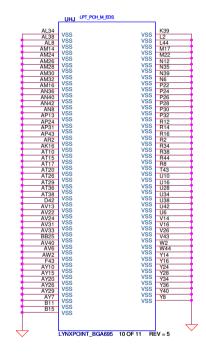


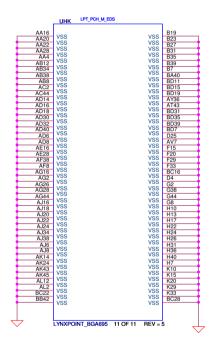








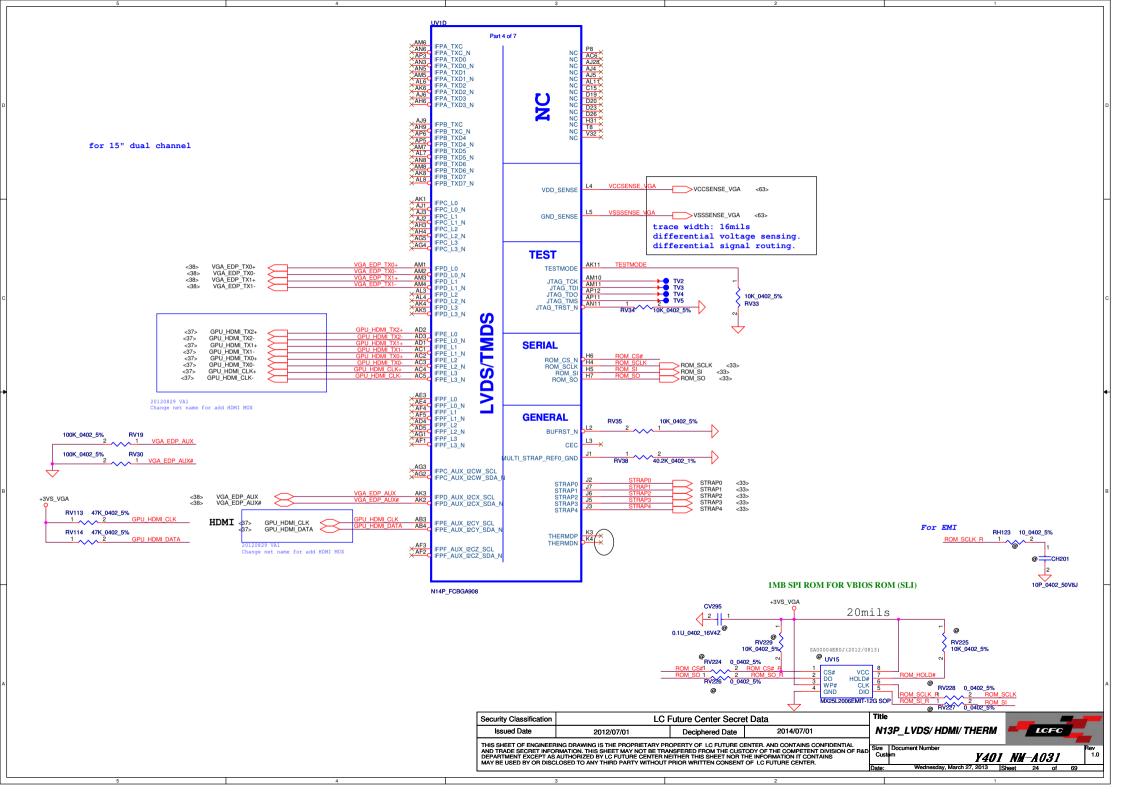


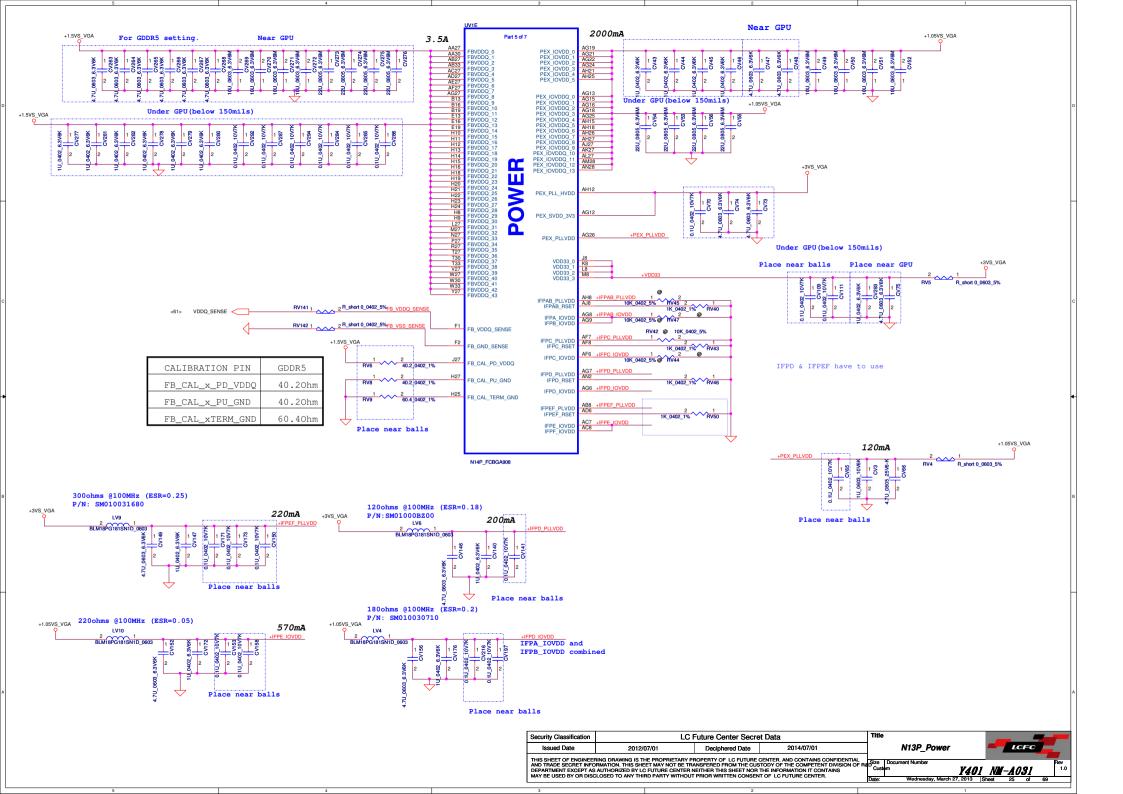


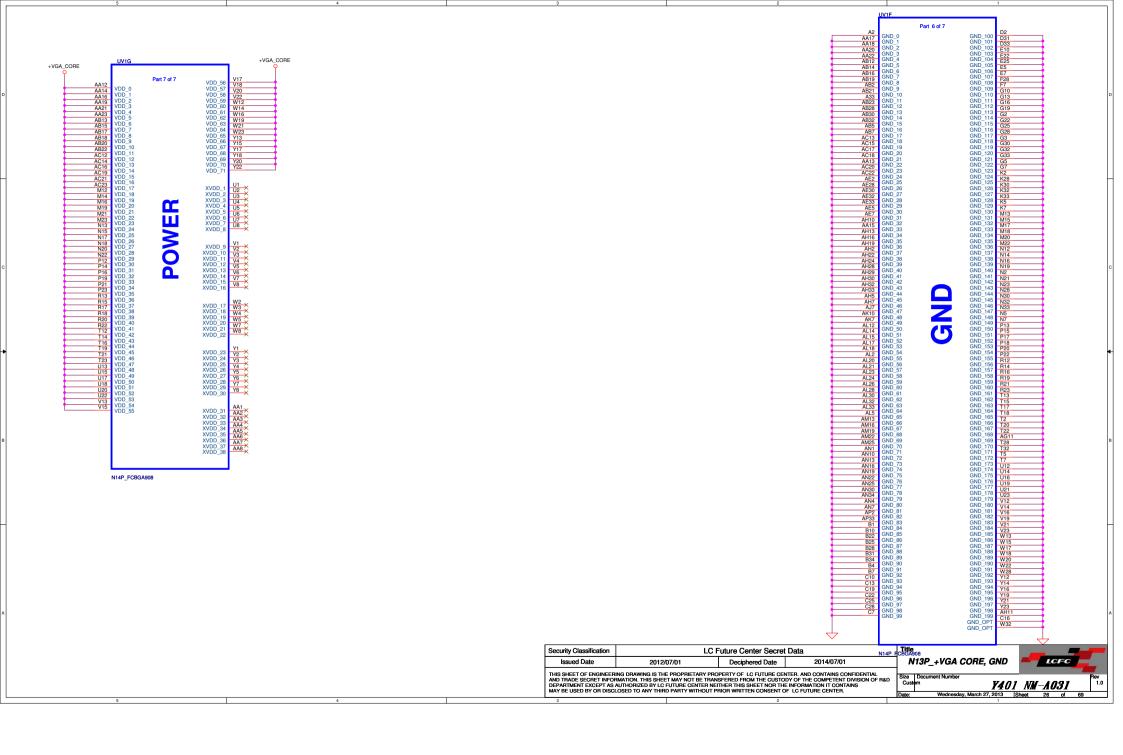
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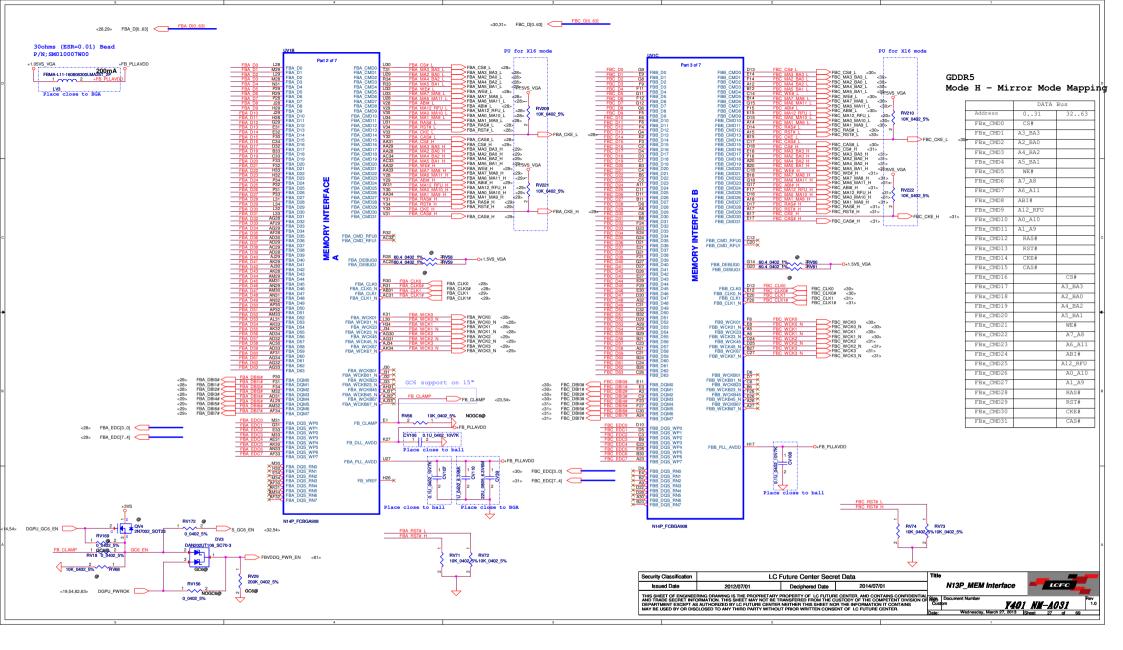
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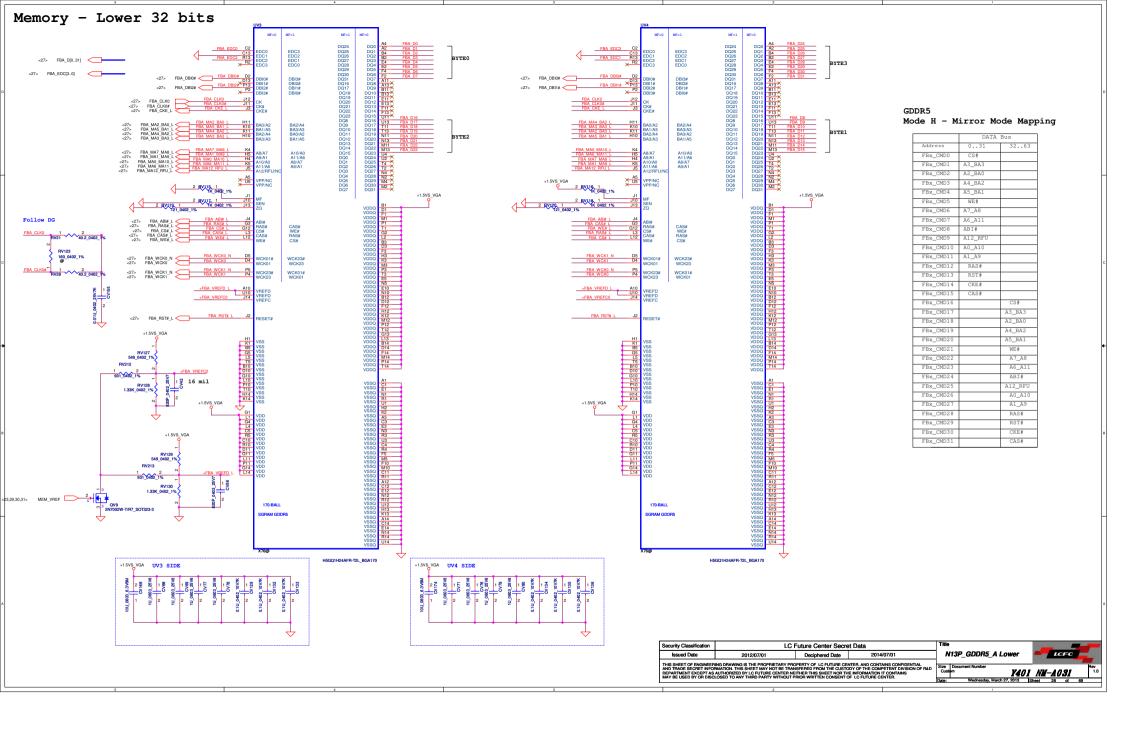
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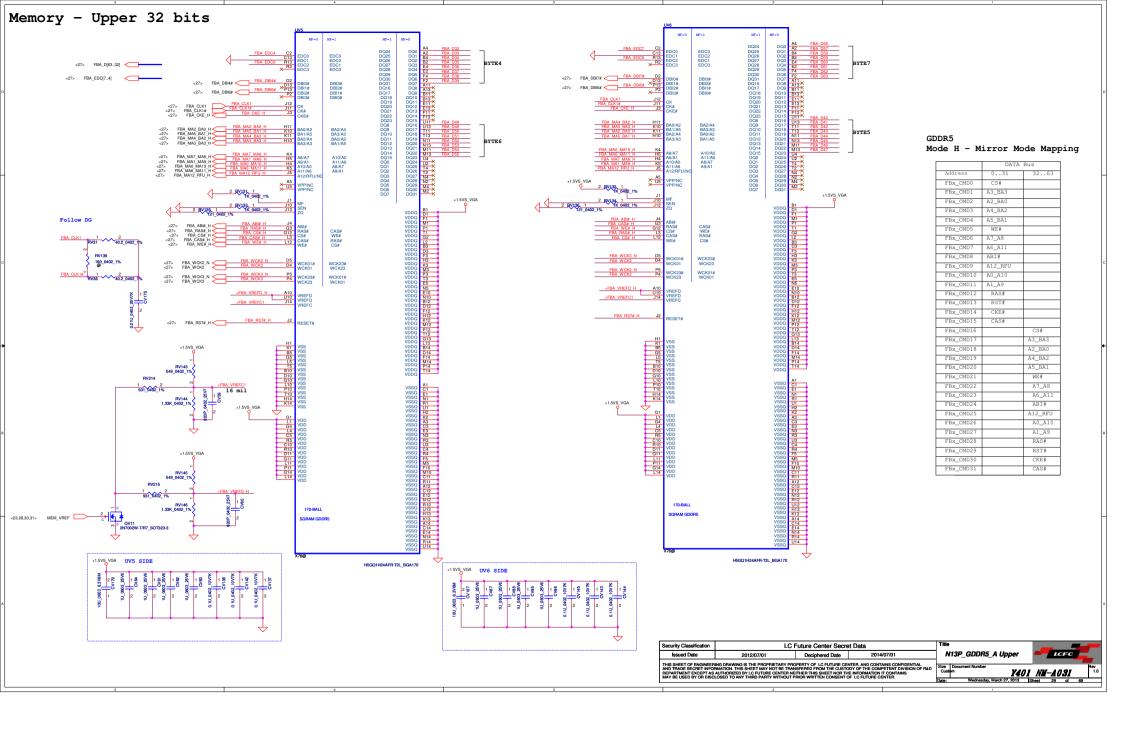


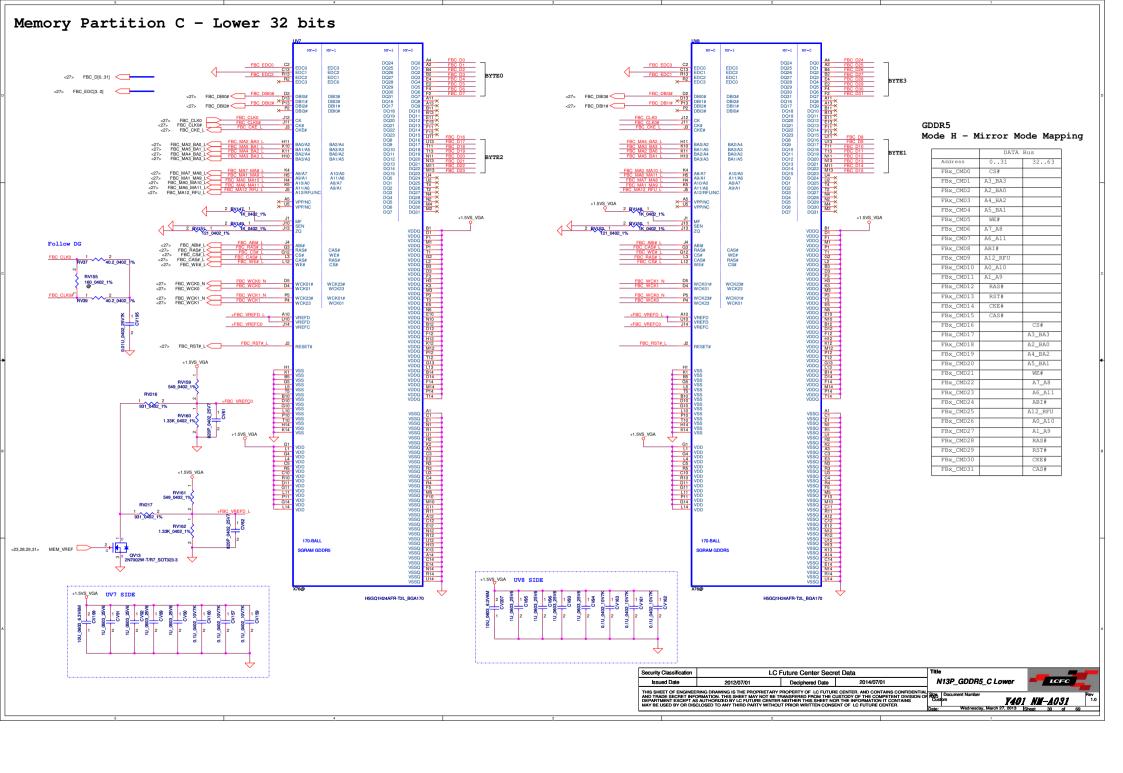


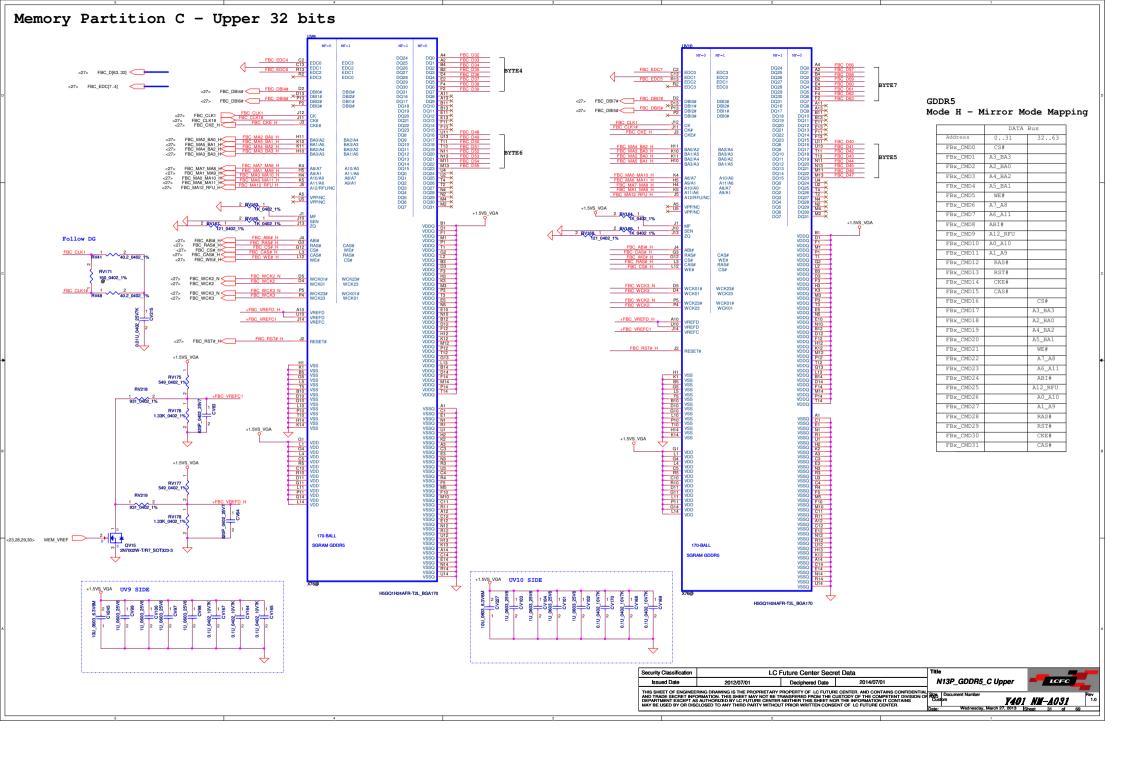


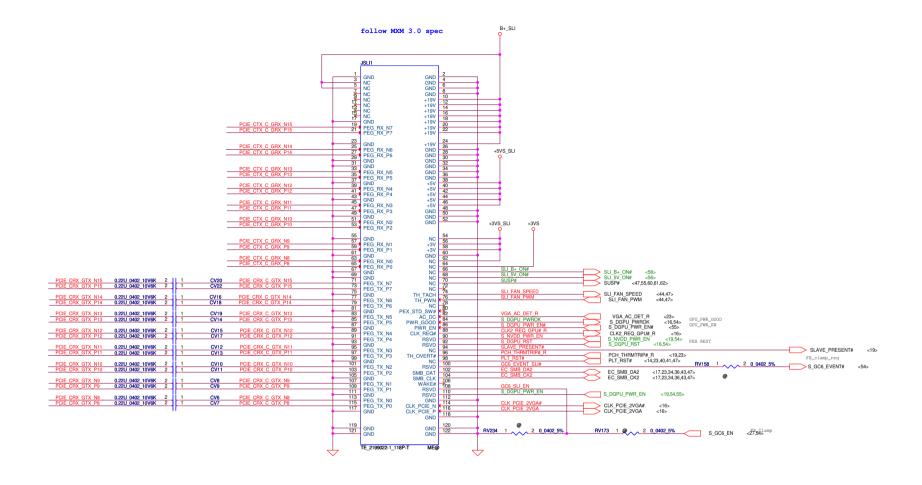












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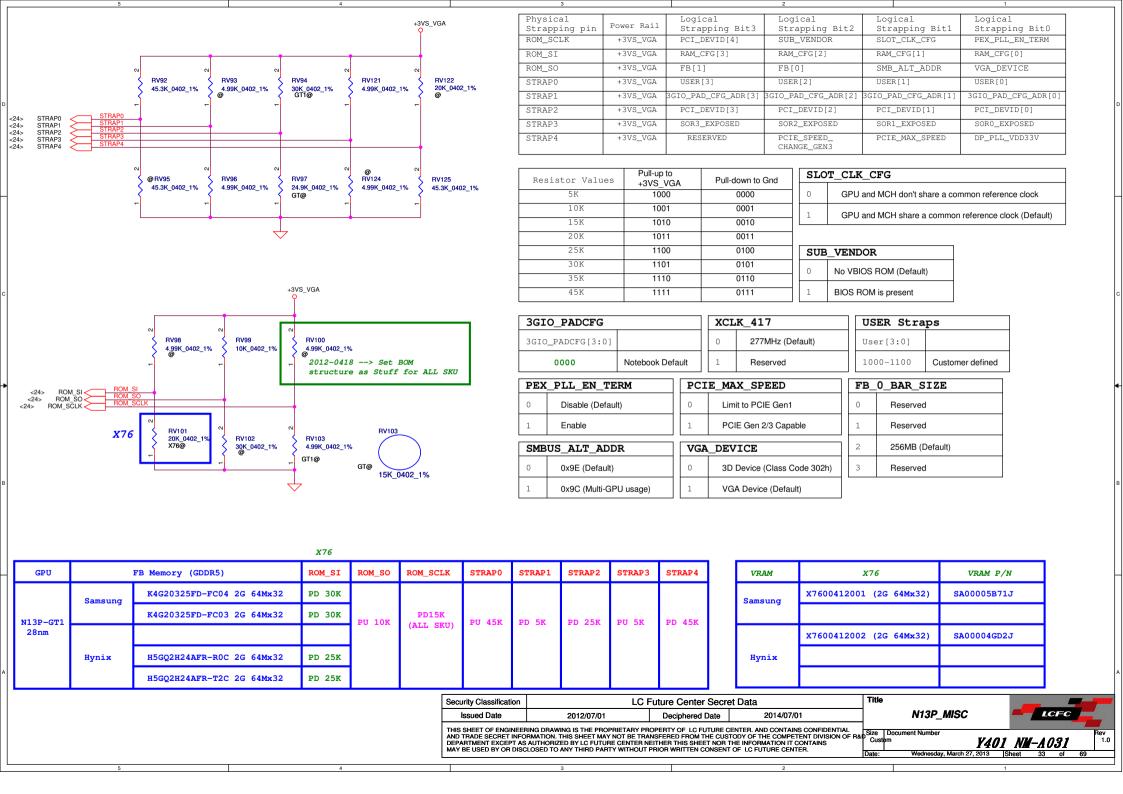
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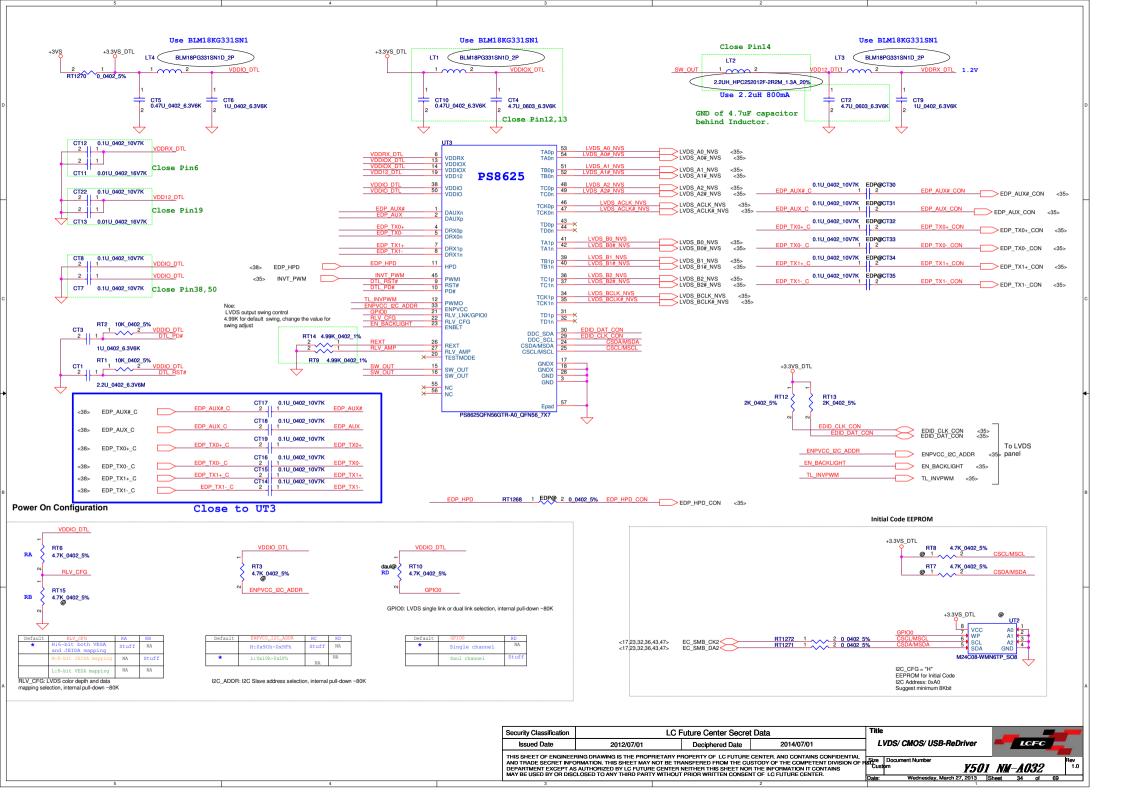
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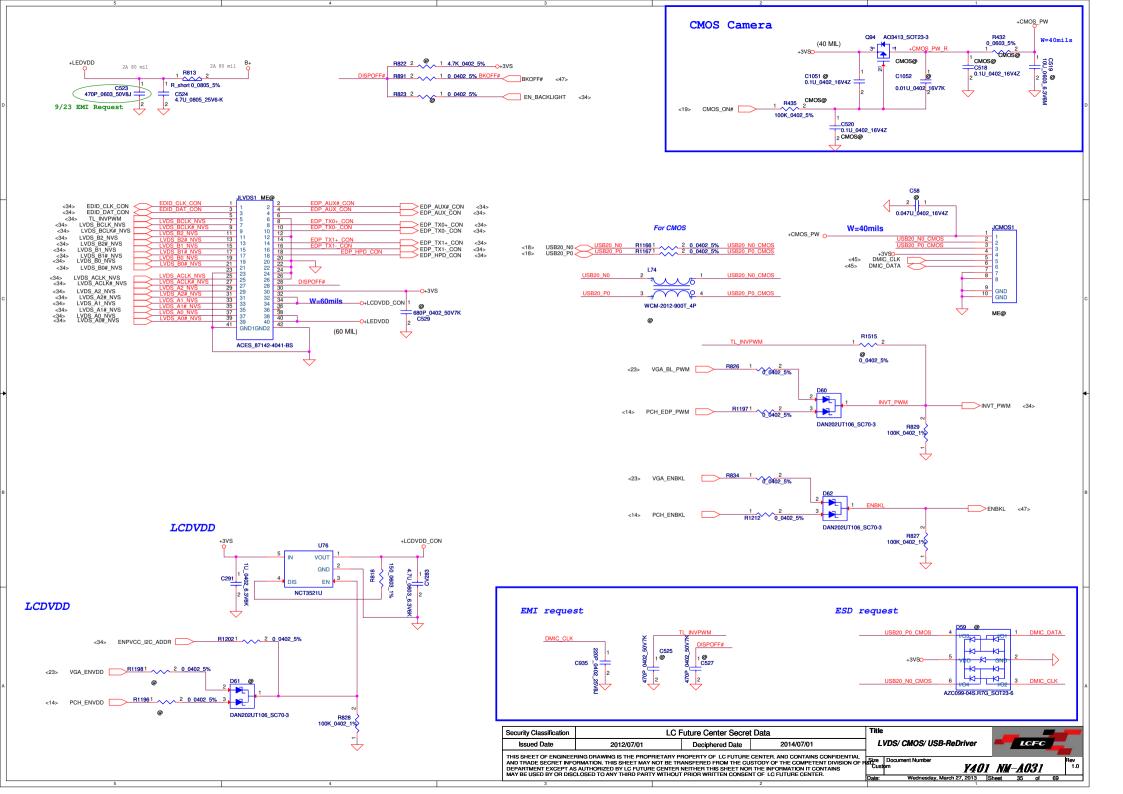
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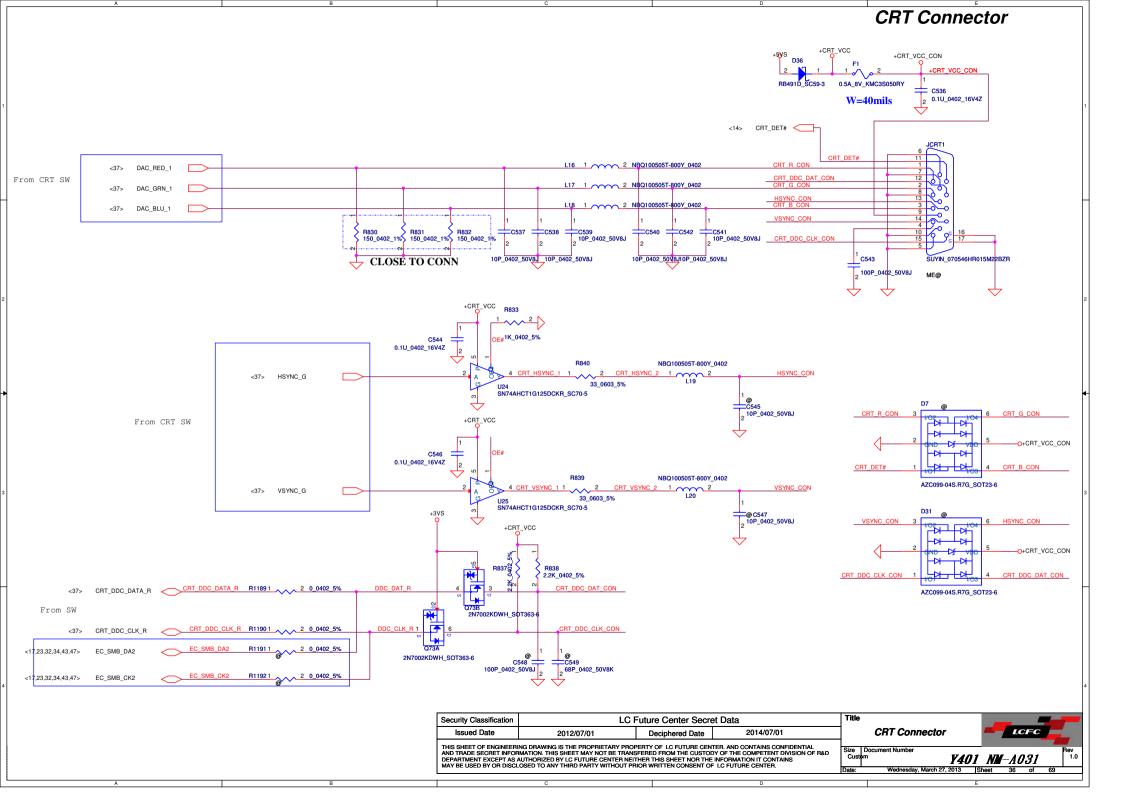
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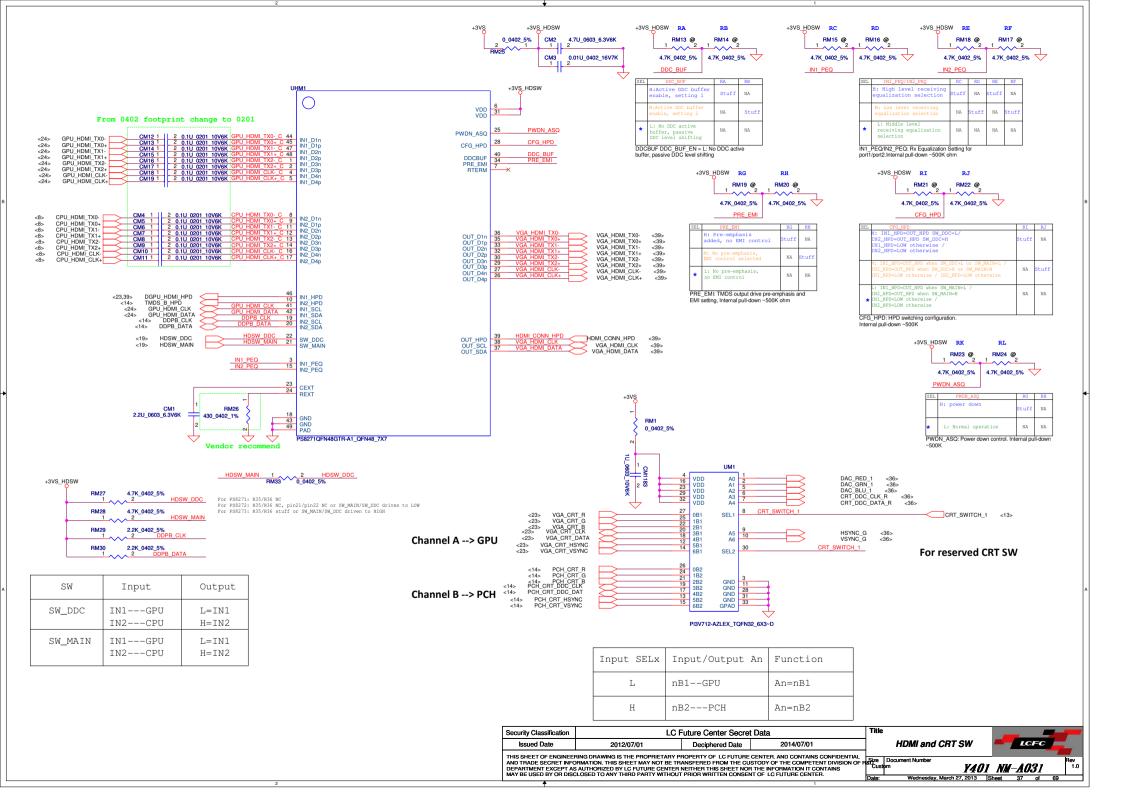
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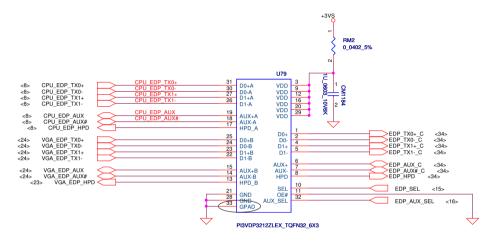






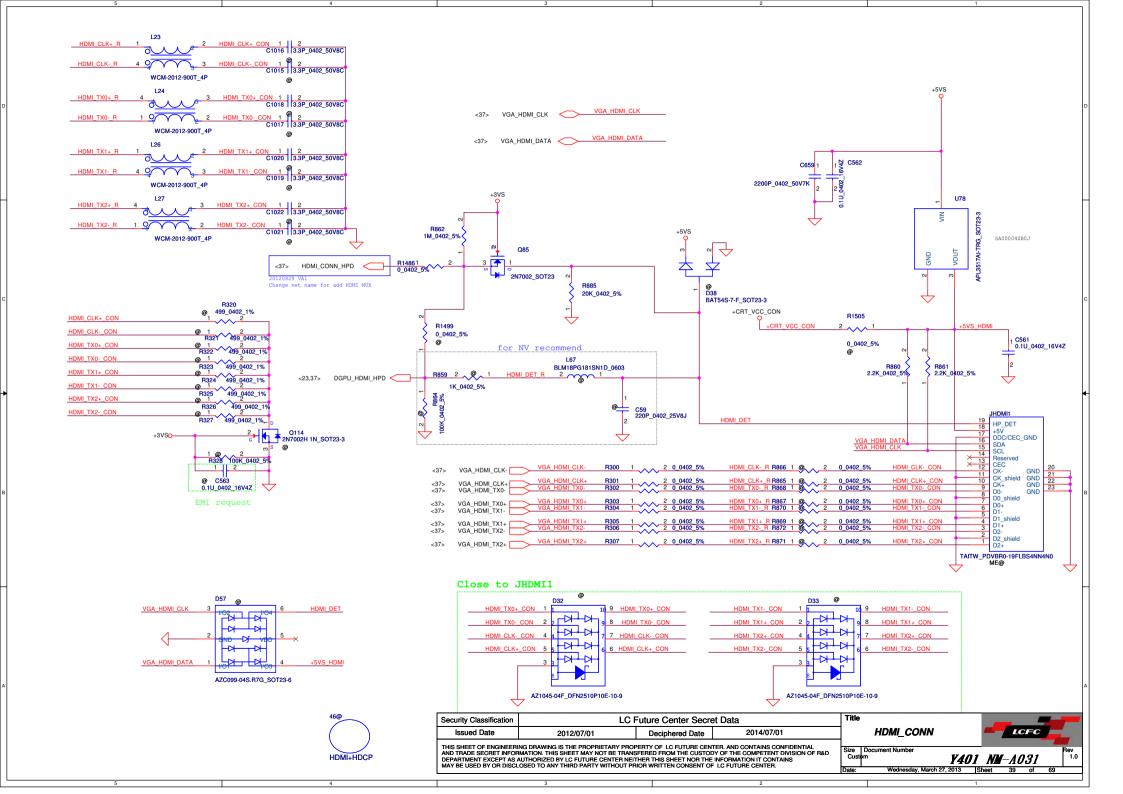


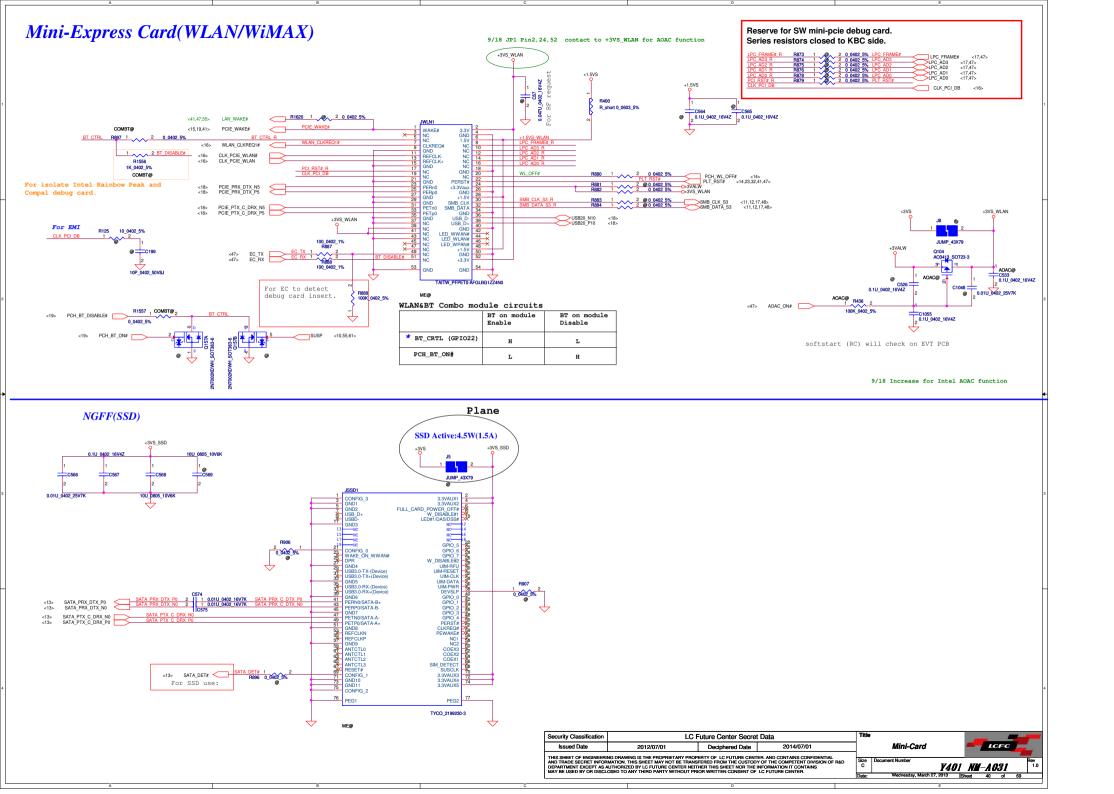


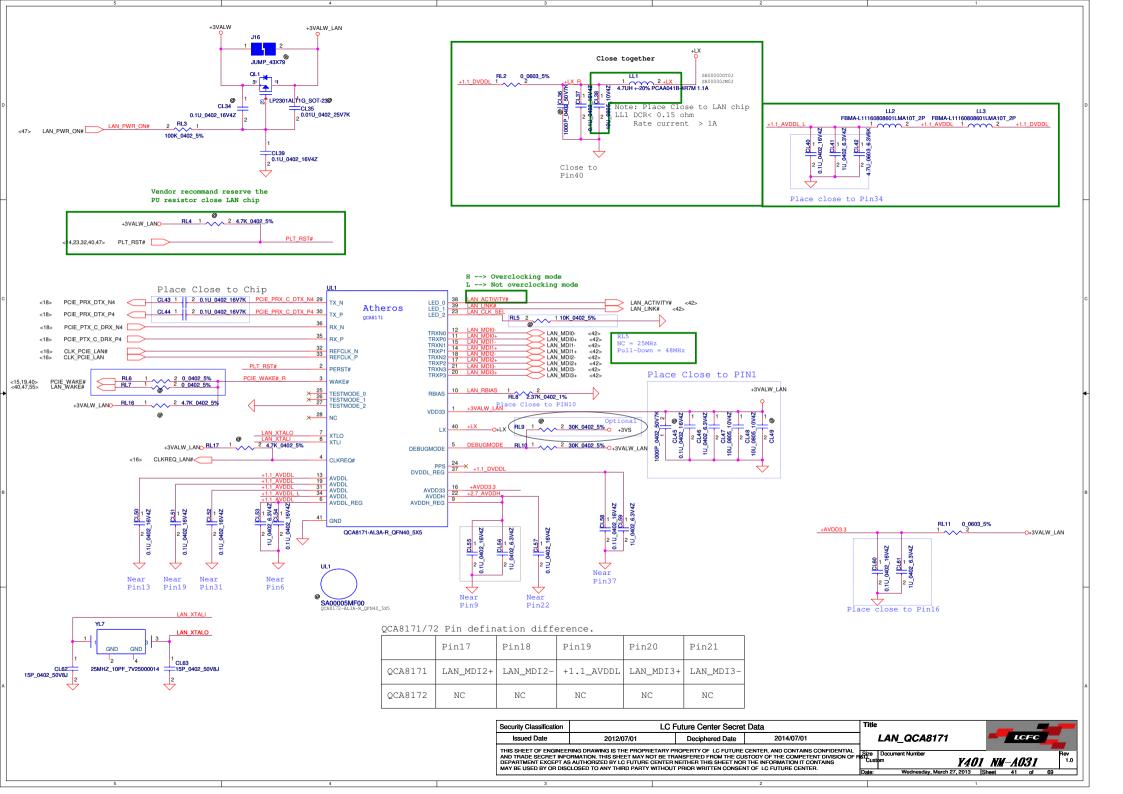


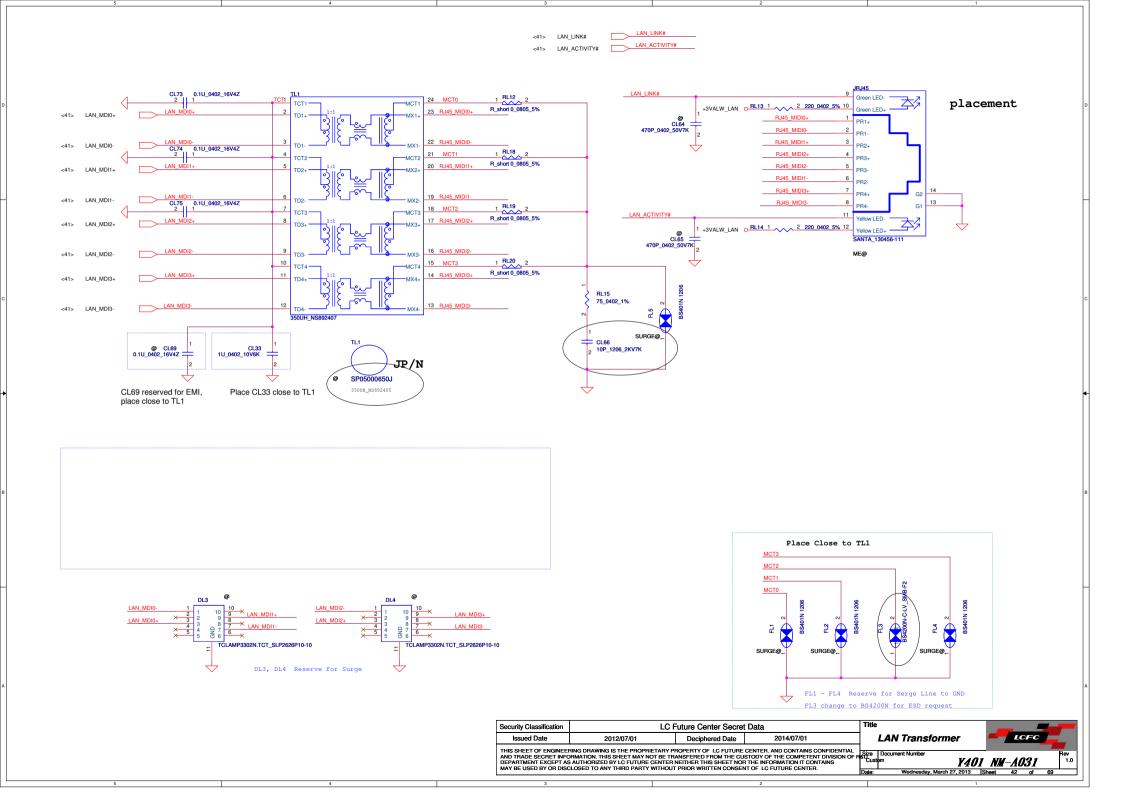
OE#	SEL	AUX_SEL	FUNCTION		
L	L	L	PORT A		
L	L	Н	PORT A-HS,	PORT	B-HPD/AUX
L	Н	L	PORT B-HS,	PORT	A-HPD/AUX
L	Н	Н	PORT B		
H	X	X	IC POWER D	OWN	

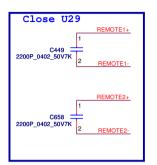
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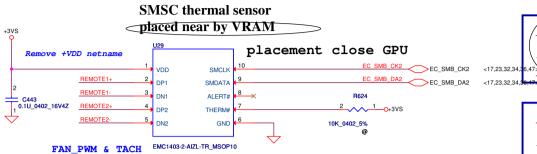








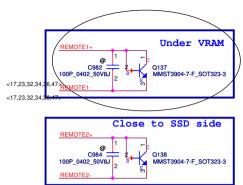




internal pull up 1.2K to 1.5V
R for initial thermal
shutdown temp

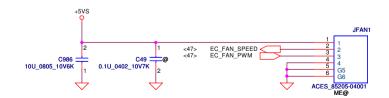
Address 1001 101xb

for PWM FAN



REMOTE2+/-:
Trace width/space:10/10 mil
Trace length:<8"

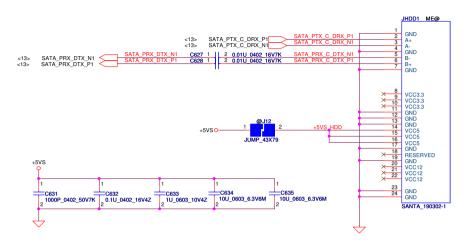


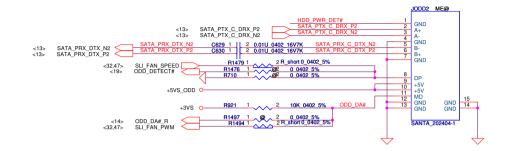


Security Classification	LCI	Future Center Secret Data			Title		
Issued Date	2012/07/01	Deciphered Date	2014/07/01	VGA Th	ermal sensor/FAN CONN	LCF	
AND TRADE SECRET INFOR DEPARTMENT EXCEPT AS	NG DRAWING IS THE PROPRIETARY PROI MATION. THIS SHEET MAY NOT BE TRANS AUTHORIZED BY LC FUTURE CENTER NEI OSED TO ANY THIRD PARTY WITHOUT PE	FERED FROM THE CUSTOR THER THIS SHEET NOR THE	DY OF THE COMPETENT DIVISION OF R&D INFORMATION IT CONTAINS	Size Docu Custom	ment Number Y401 Wednesday, March 27, 2013 Sh	NM -A031 neet 43 of	Rev 1.0

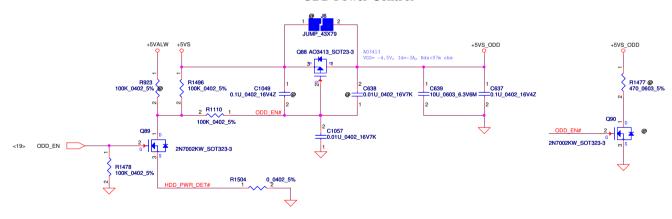
SATA HDD Conn.

SATA ODD Conn.

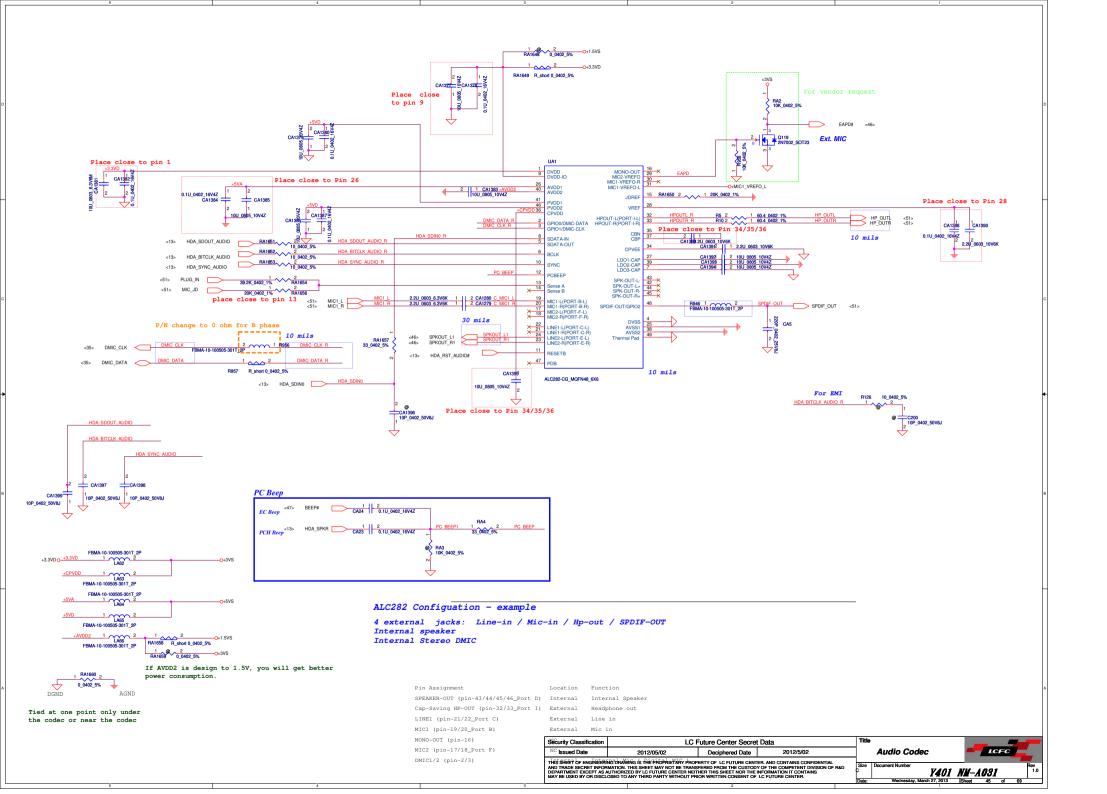


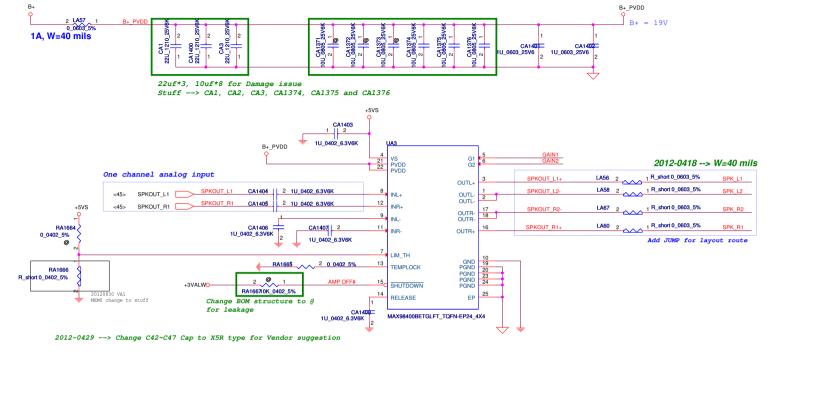


ODD Power Control



Security Classification	LC F	uture Center Secret	t Data	Fitle				
Issued Date	2012/07/01	Deciphered Date	2014/07/01	HDD/ODD CONN		LCFC		
AND TRADE SECRET INFO DEPARTMENT EXCEPT AS	RING DRAWING IS THE PROPRIETARY PR RMATION. THIS SHEET MAY NOT BE TRA AUTHORIZED BY LC FUTURE CENTER I LOSED TO ANY THIRD PARTY WITHOUT	ANSFERED FROM THE CU NEITHER THIS SHEET NOF	CENTER. AND CONTAINS CONFIDENTIAL STODY OF THE COMPETENT DIVISION OF R THE INFORMATION IT CONTAINS IT OF LC FUTURE CENTER.	Size Document Number Custom Date: Wednesday, March 27		NM-A031	Rev 1.	



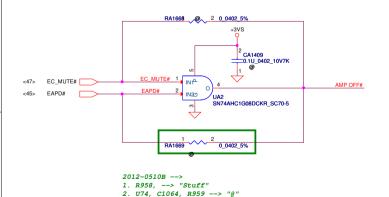


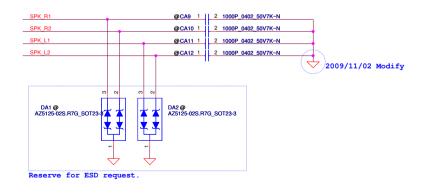
GAIN SETTING



GAIN1	GAIN2	GAIN SETTING (dB)
★ GND	GND	9 (Default)
NC	GND	13
+5VS	GND	16.7
GND	NC	20.1
NC	NC	23.3
+5VS	NC	26.4

2012-0418 --> Set R890 BOM structure as Stuff

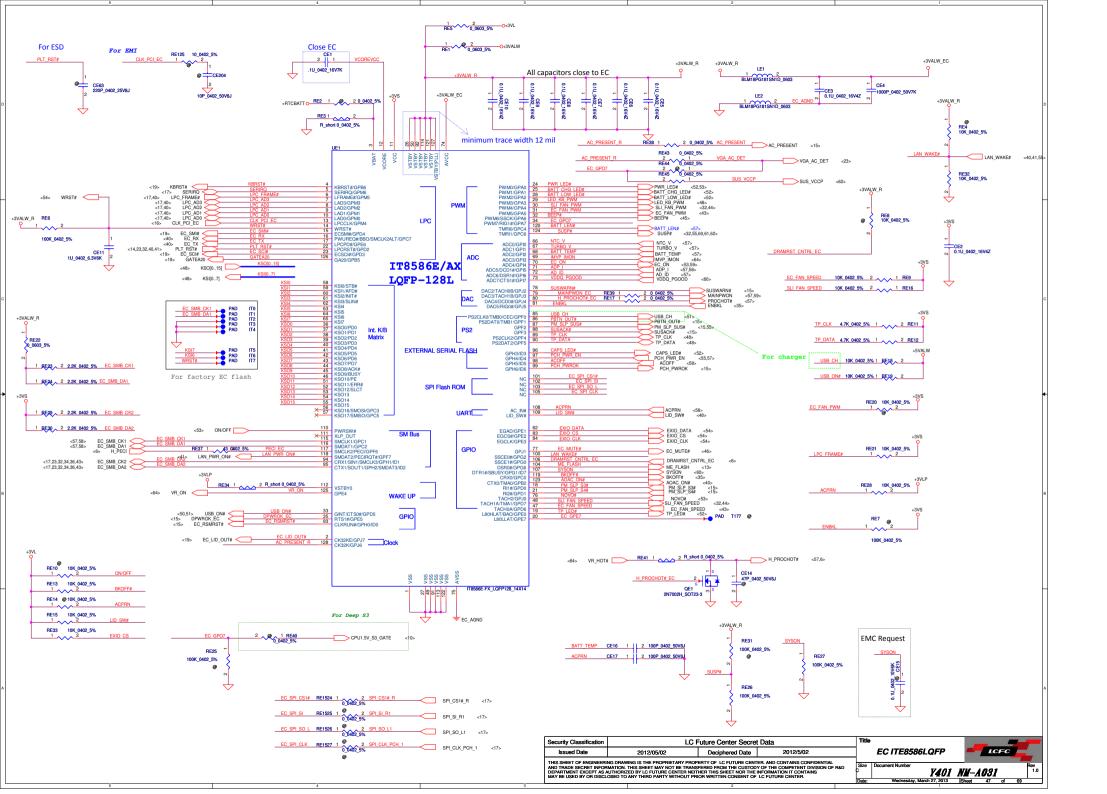




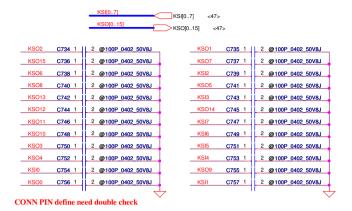


Speaker 2.5W

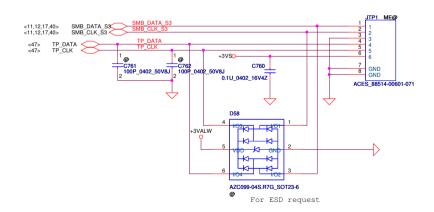
Security Classification	,				LCFC Electronics, Inc.			
Issued Date	2011/11/01	Deciphered Date	2012/03/09	Title	AMD MAYOO AOODETC. T			
THIS SHEET OF ENGINEER	RING DRAWING IS THE PROPRIETARY P	ROPERTY OF COMPAL EL	DENTIAL	AMP-MAX98400BETG+T	Rev			
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MIAT BE OSED BY ON DISC	DECORED TO ANTI THIRD I ARTIT WITHOU	THION WHITTEN CONSE	NT OF COMPACILIZATIONIOS, INC.	Date:	Wednesday, March 27, 2013 Sheet 46 of	69		



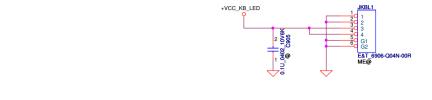
14" INT_KBD Conn.

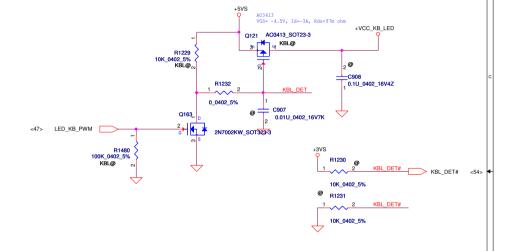


To TP/B Conn.



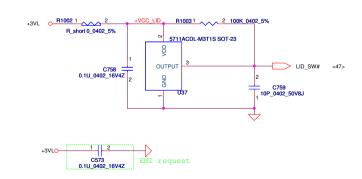
KB Lighting CONN.4pin



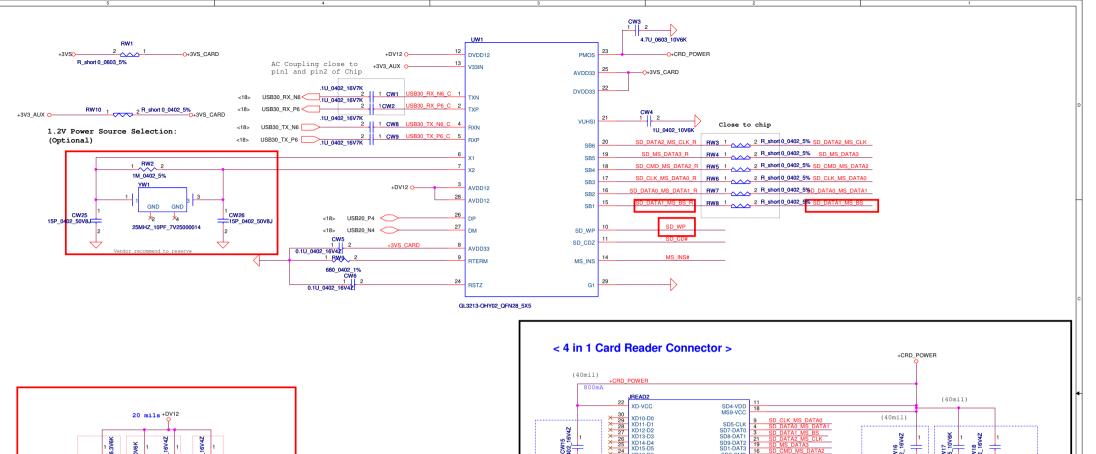


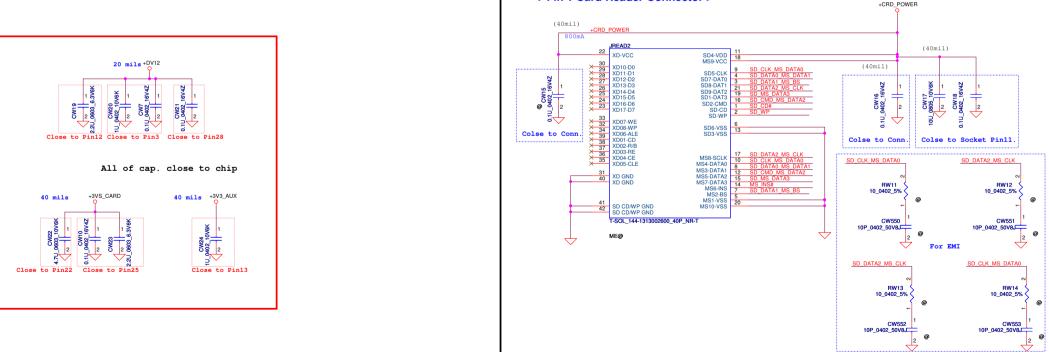
Lid Switch

ACES_85202-24051 ME@

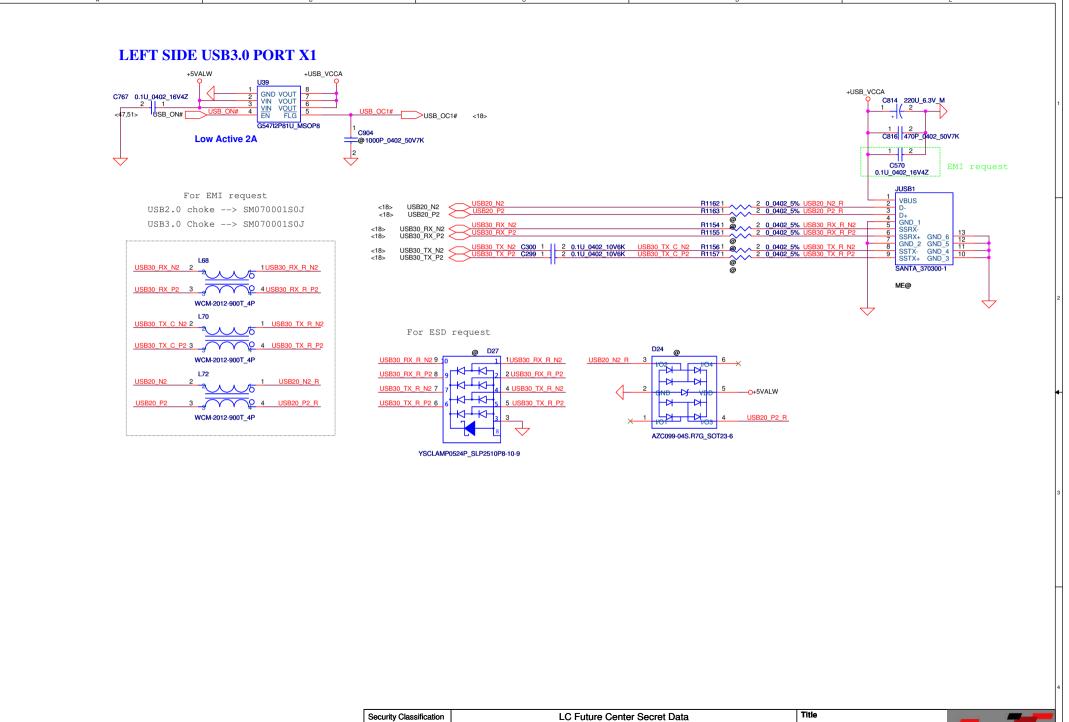


Security Classification	LCF	uture Center Secre	t Data	Title						
Issued Date	2012/07/01	Deciphered Date	2014/07/01	1	KB/ KB-LIGHT/	LID IC		LCFC		
AND TRADE SECRET INFO DEPARTMENT EXCEPT AS	RING DRAWING IS THE PROPRIETARY P DRMATION. THIS SHEET MAY NOT BE TR S AUTHORIZED BY LC FUTURE CENTER CLOSED TO ANY THIRD PARTY WITHOUT	ANSFERED FROM THE CU NEITHER THIS SHEET NO	CENTER. AND CONTAINS CONFIDENTIAL ISTODY OF THE COMPETENT DIVISION OF R THE INFORMATION IT CONTAINS NT OF LC FUTURE CENTER.	Size Cust	Document Number pm Wednesday, Mar		/ ////	- A03 1	69 R	lev 1.0

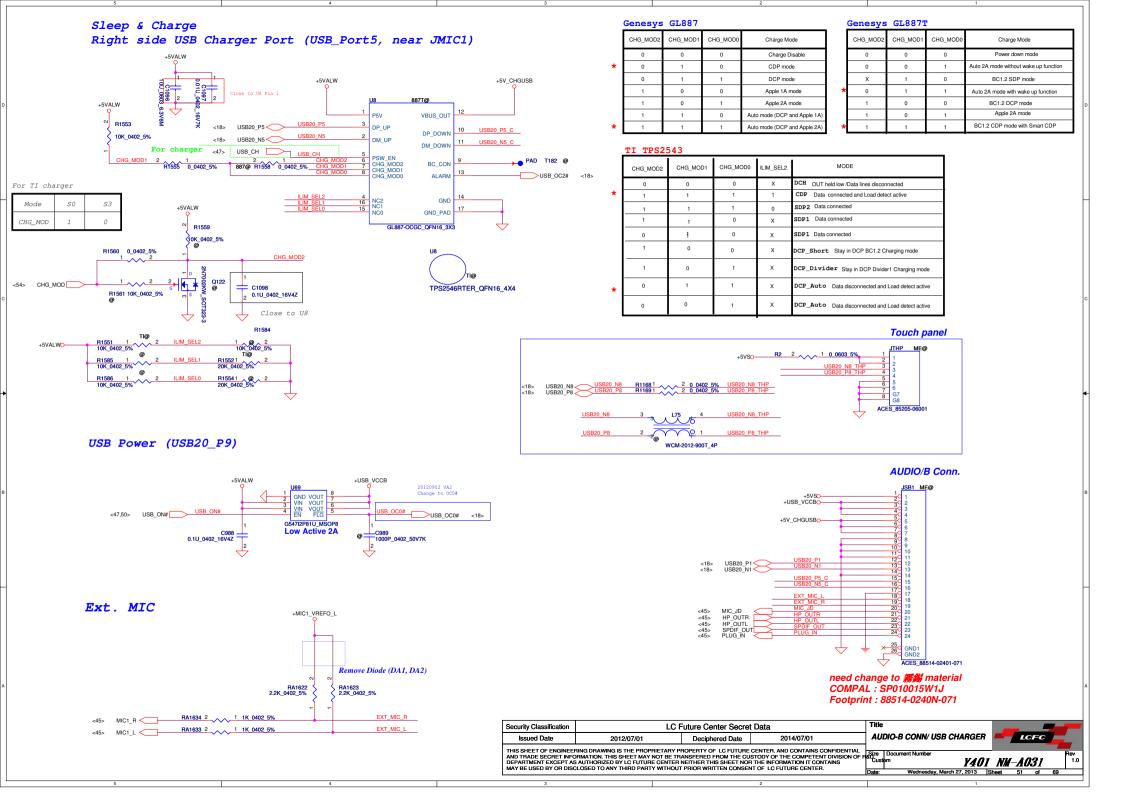




Security Classification	LC Future Center Secret Data			Title			
Issued Date	2012/07/01	Deciphered Date	2014/07/01	Card reade	LCFC		
AND TRADE SECRET INFO DEPARTMENT EXCEPT AS	RING DRAWING IS THE PROPRIETARY P PRMATION. THIS SHEET MAY NOT BE TR SAUTHORIZED BY LC FUTURE CENTER LOSED TO ANY THIRD PARTY WITHOUT	ANSFERED FROM THE CU NEITHER THIS SHEET NOF	NT OF LC FUTURE CENTER		Y401	NH-A031	Rev 1.0



USB 3.0 PORT (LEFT) LCFC Issued Date 2014/07/01 2012/07/01 Deciphered Date THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF LC FUTURE CENTER. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF REPARTMENT EXCEPT AS AUTHORIZED BY LC FUTURE CENTER NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF LC FUTURE CENTER. Y401 NM-A031 Wednesday, March 27, 2013 Sheet 50 of

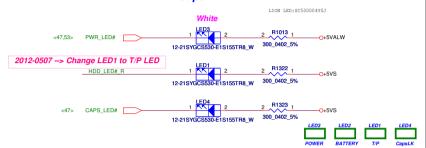


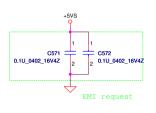
BATT CHARGE/LOW LED



2012-0507 --> Add MOS solution onLED3, 2 to avoid the light blinked.

PWR LED HDD LED CapsLK LED

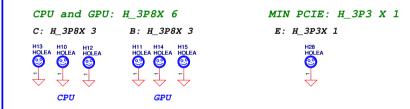






BlueTooth DC

Screw Hole



ME: H_8P0 X 8; H_3P3X 1; H_4P0X3P0N X 2; H_2P0X 1

A: H_2P8X 8



E: H_3P3X 1 H_4P0X3P0NX 3 H_2P0X 2







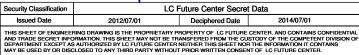
PCB Fedical Mark PAD







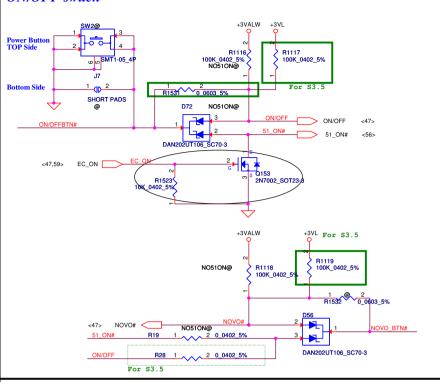




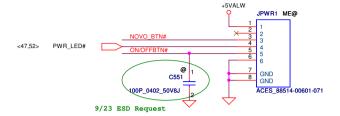
Title 2014/07/01



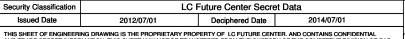
ON/OFF switch



Power Button/B link to Function/B Conn. 10pin



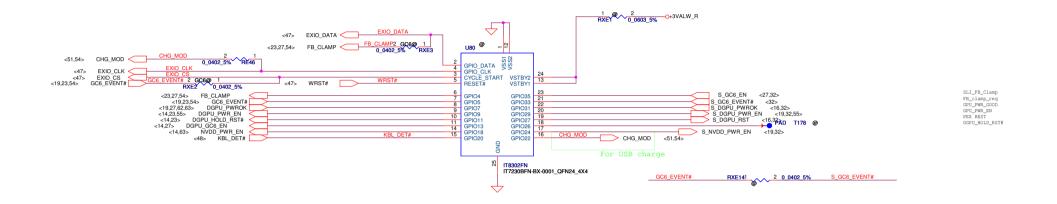
 $EMI \ REQUEST \ IST = SCA00000E00$ 2ST = SCA00000R00

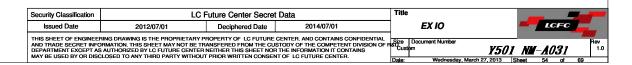


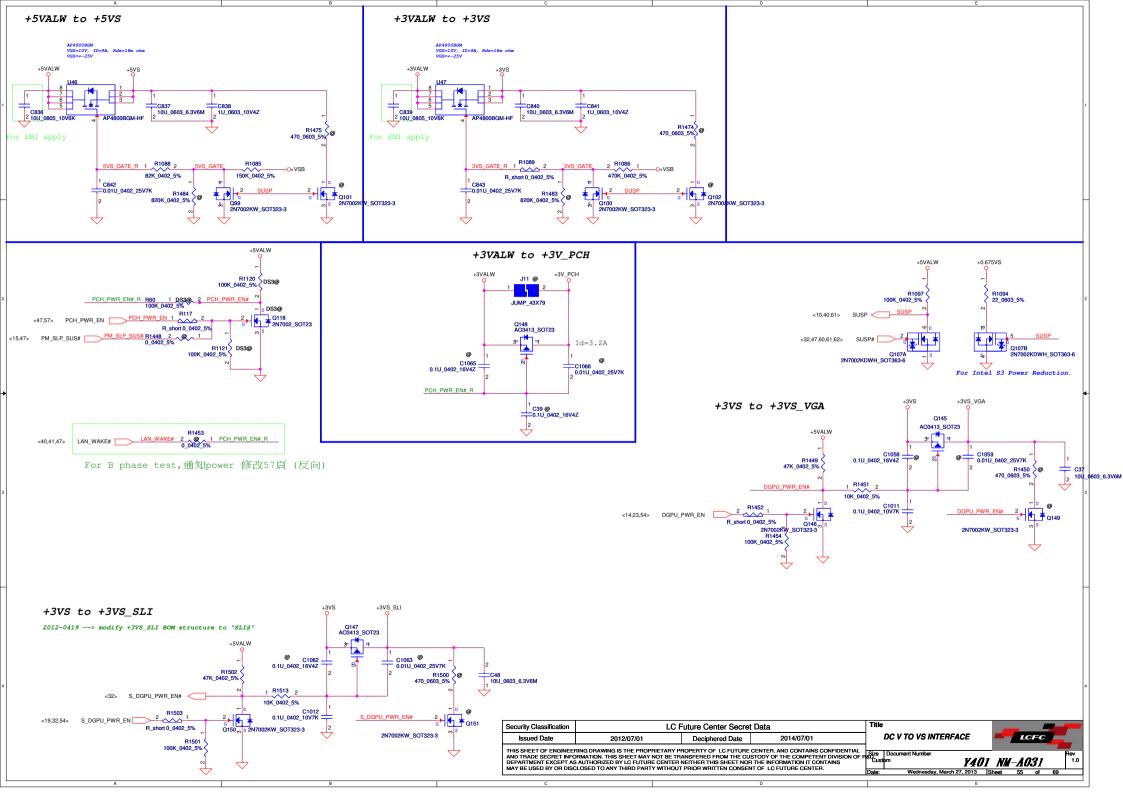
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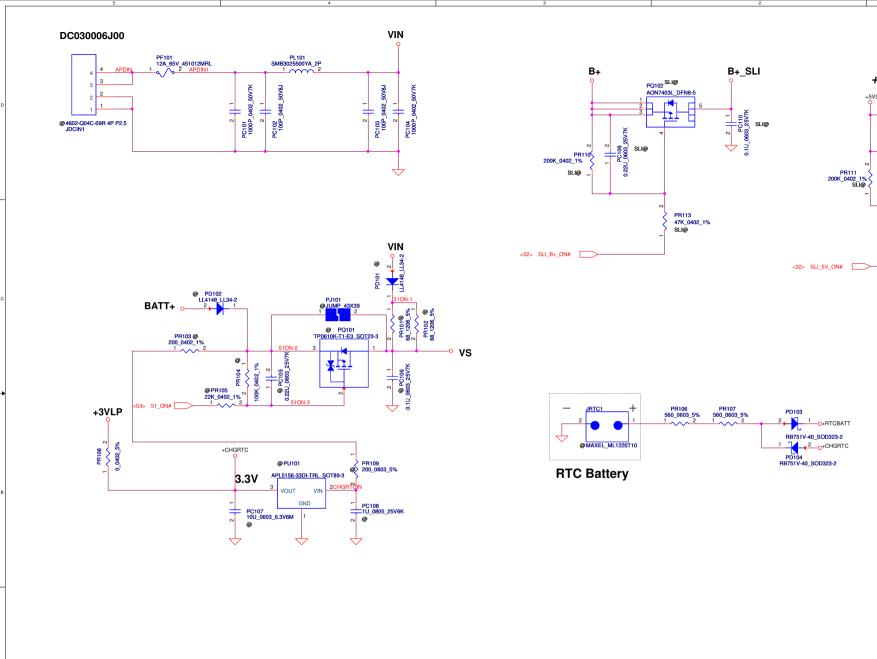


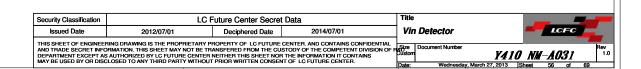
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+5VS to +5VS SLI

+5VS_SLI

SLI@ ⊋

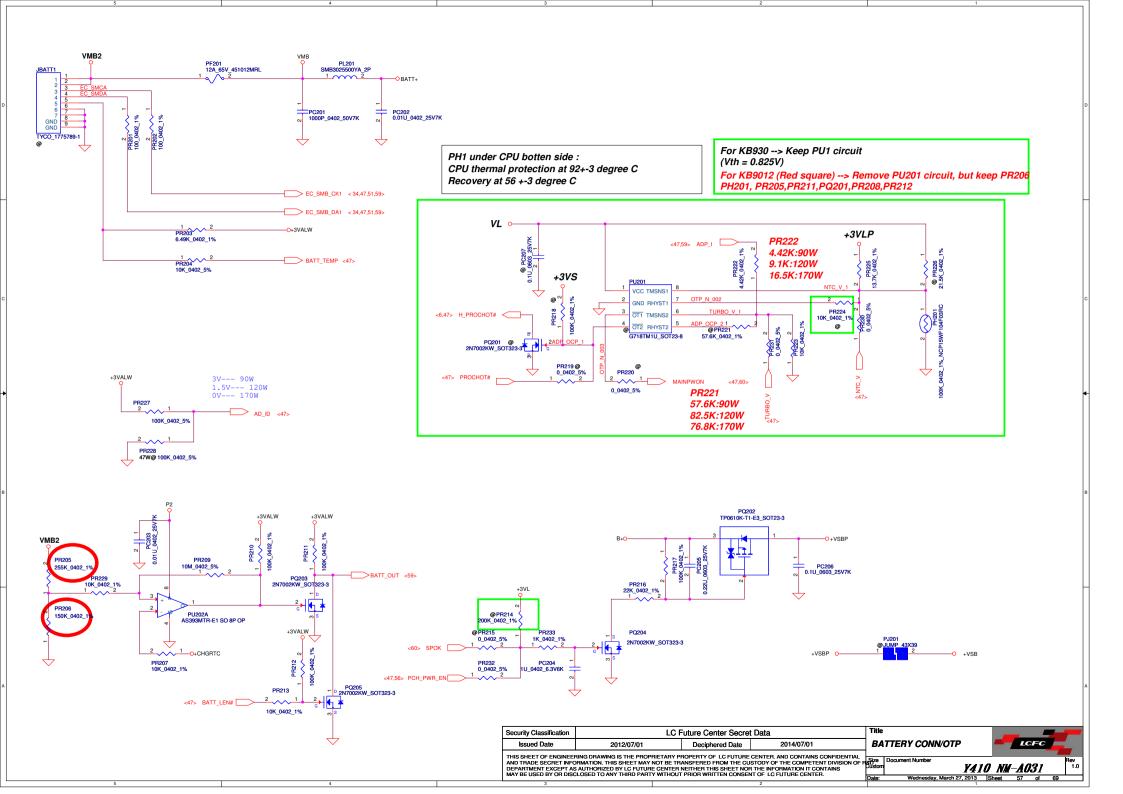
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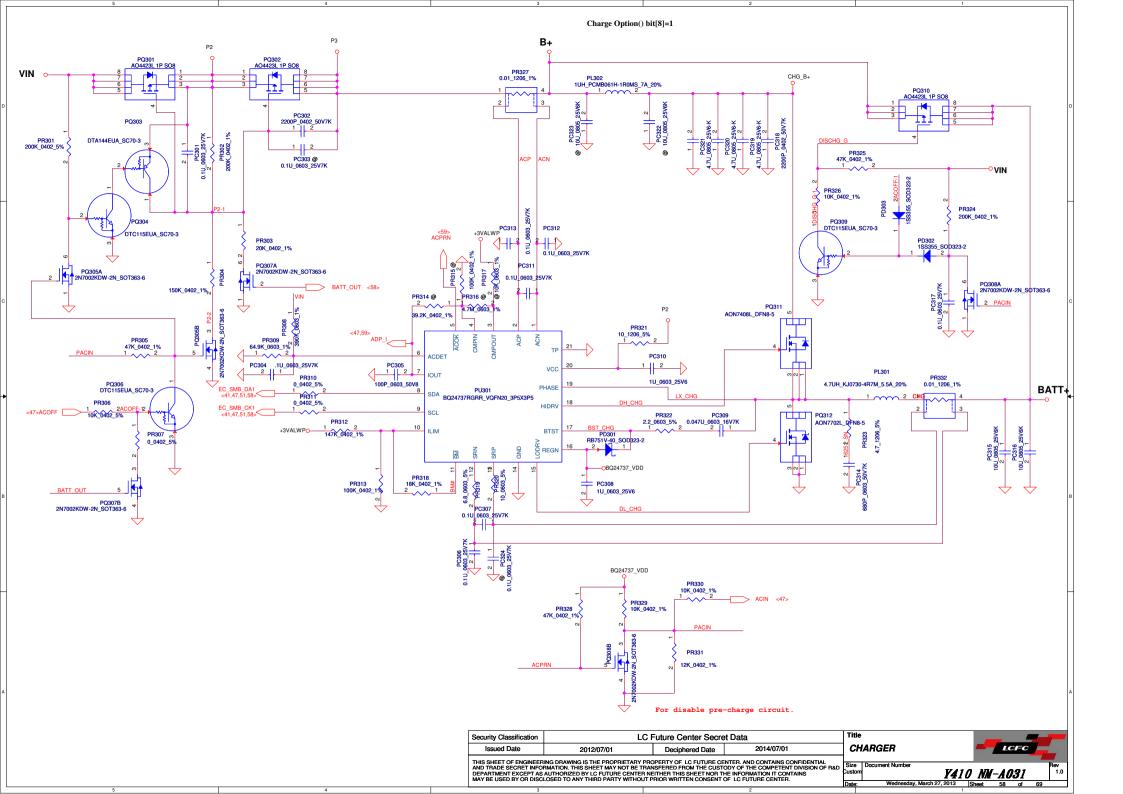
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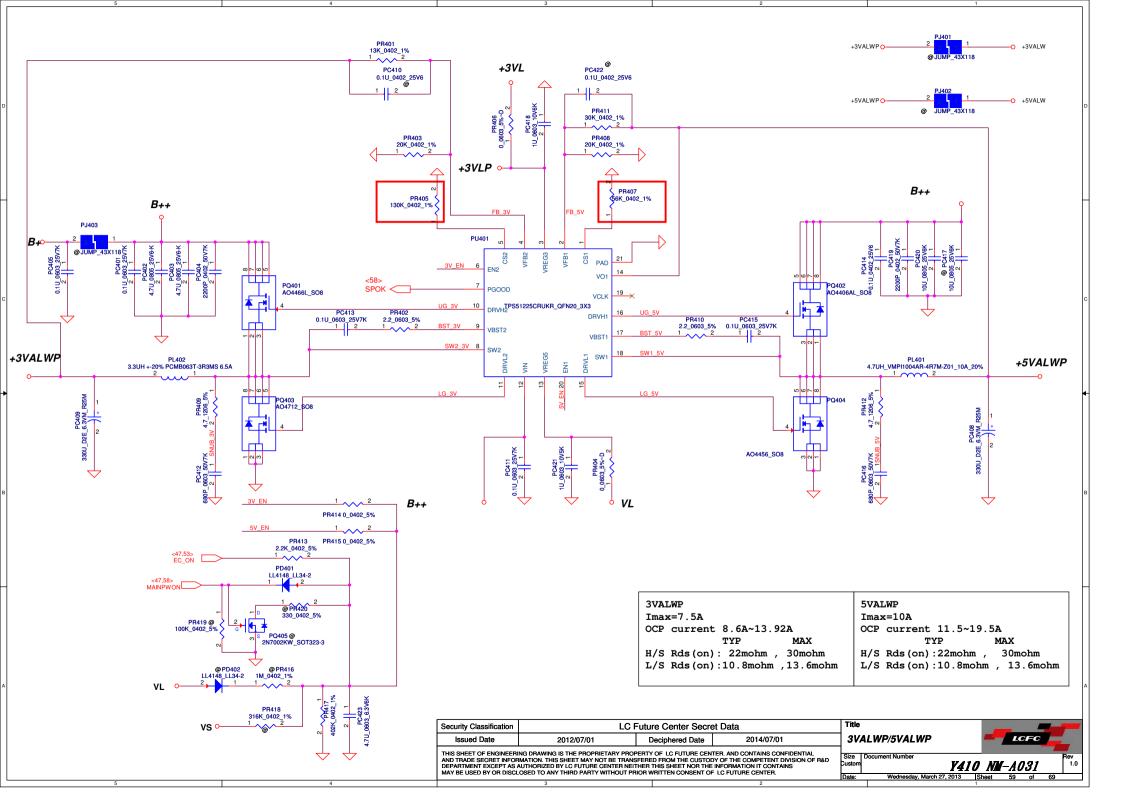
JUMP 43X79

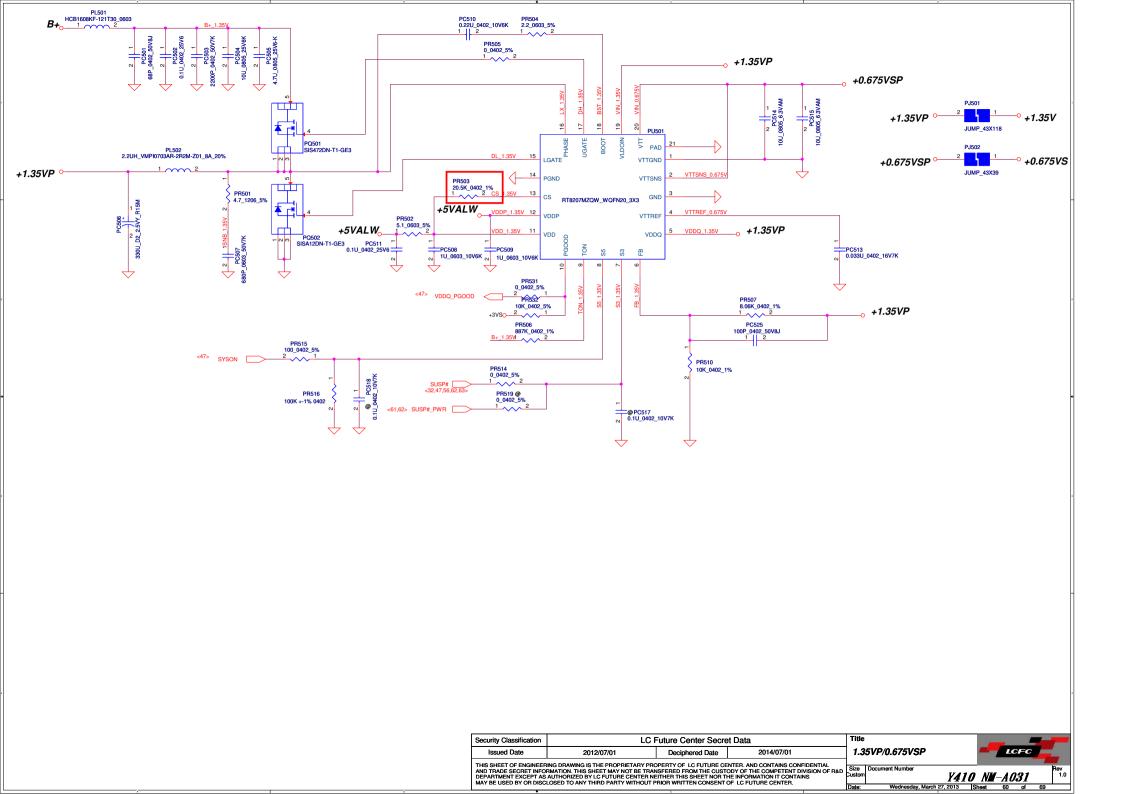
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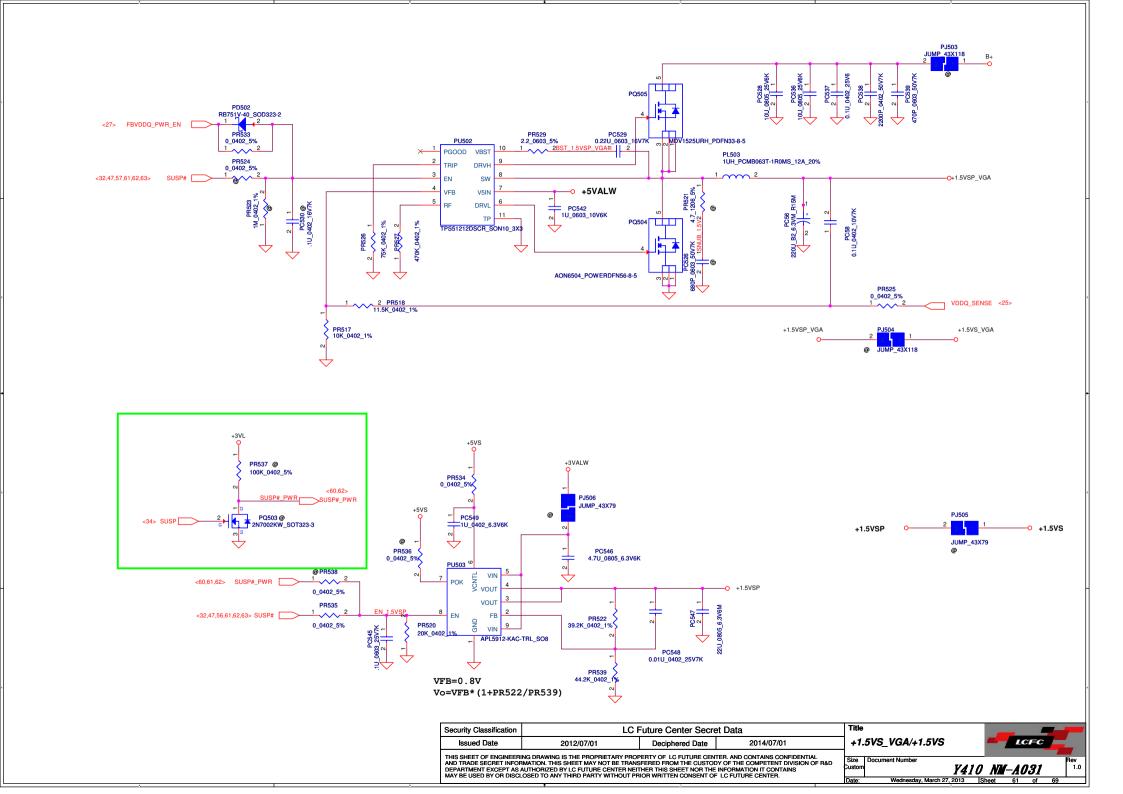
PJ102

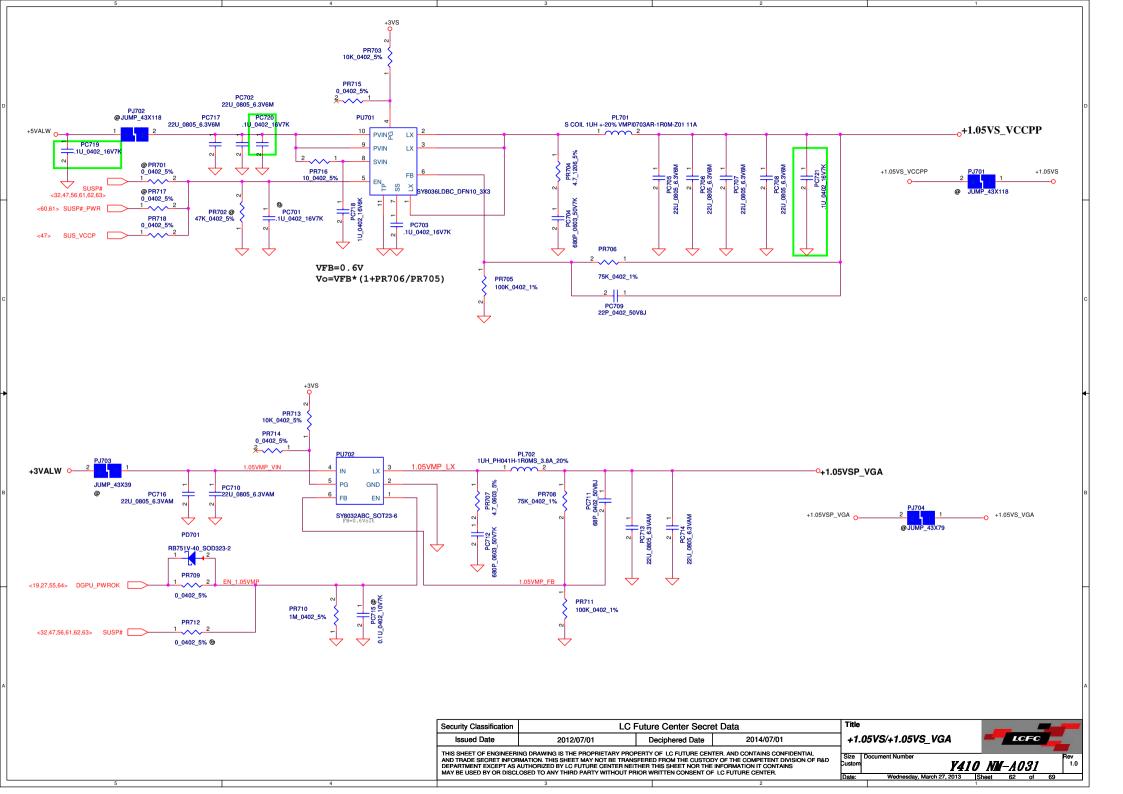


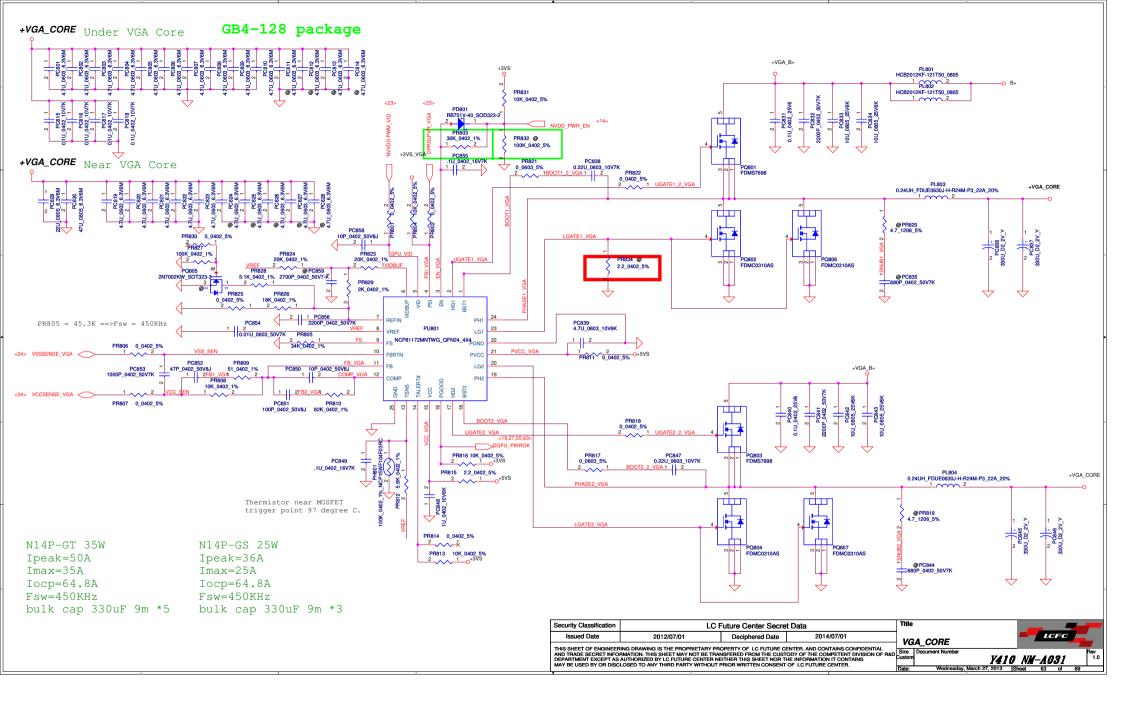


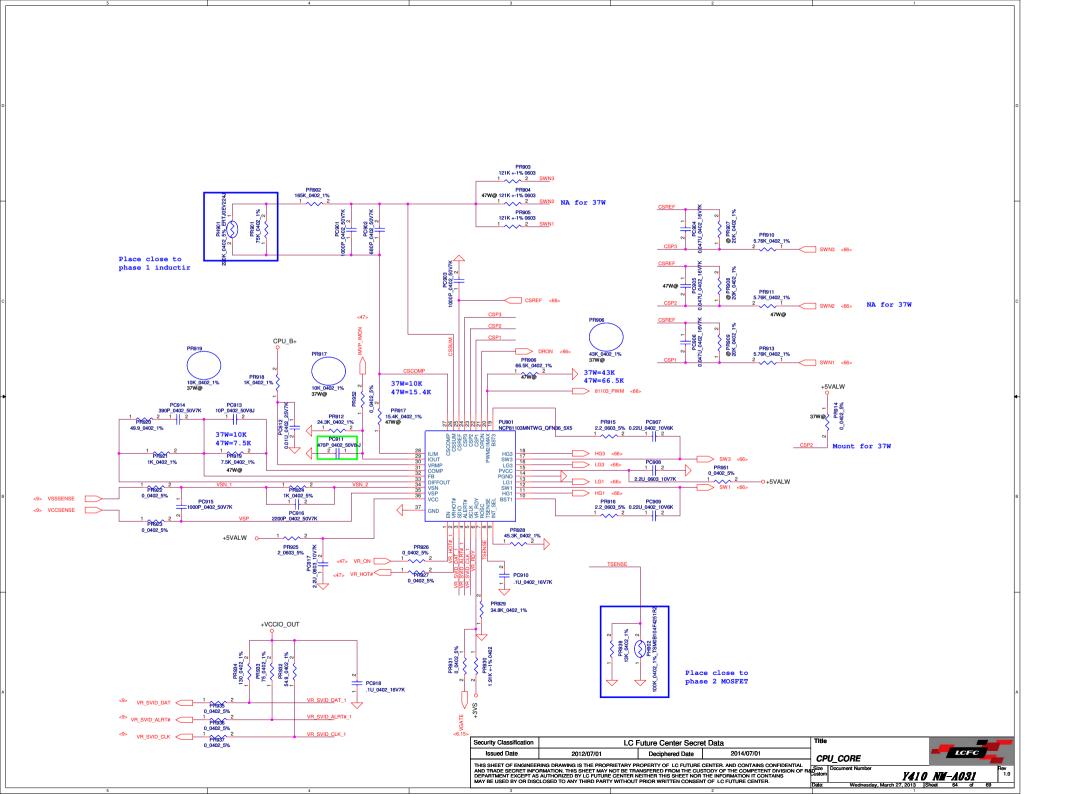


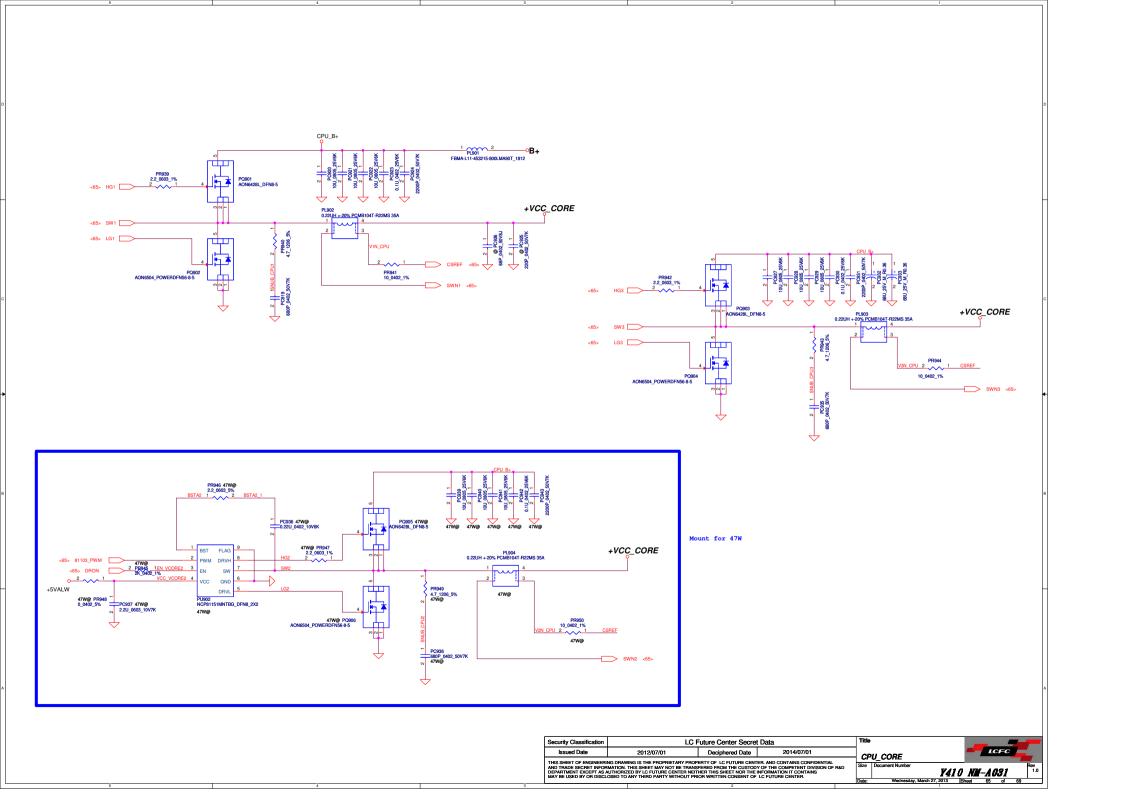


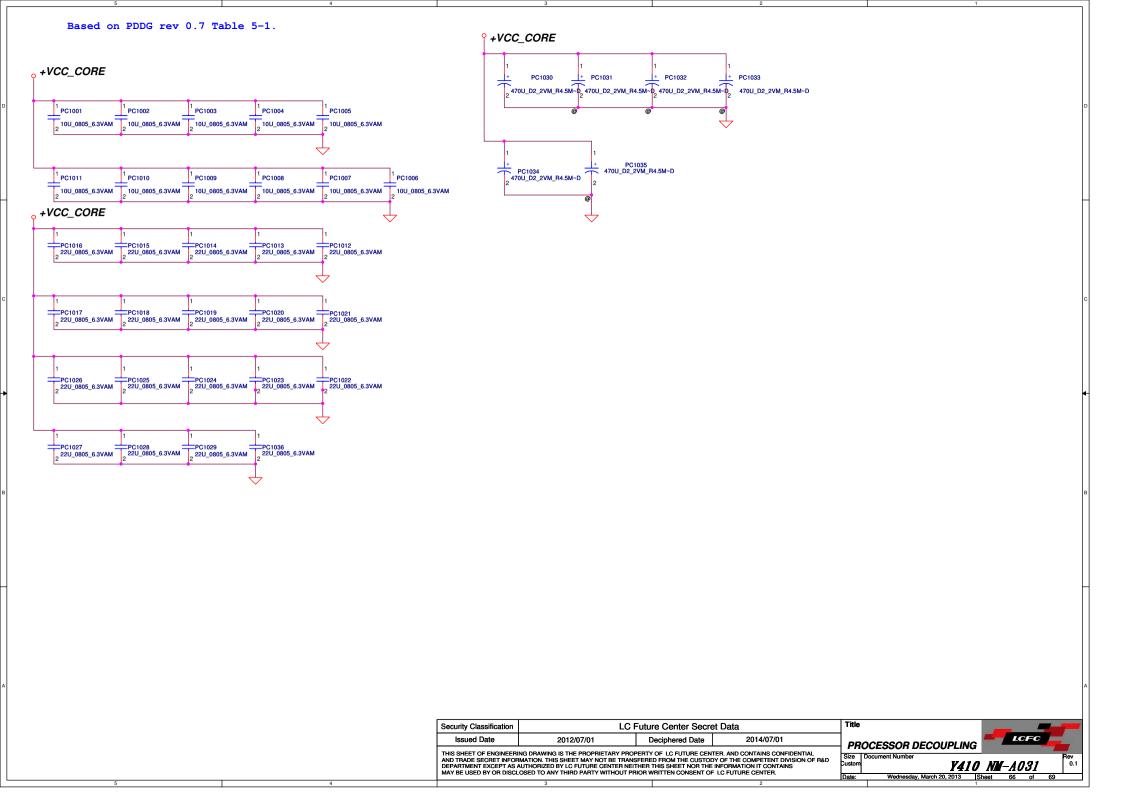


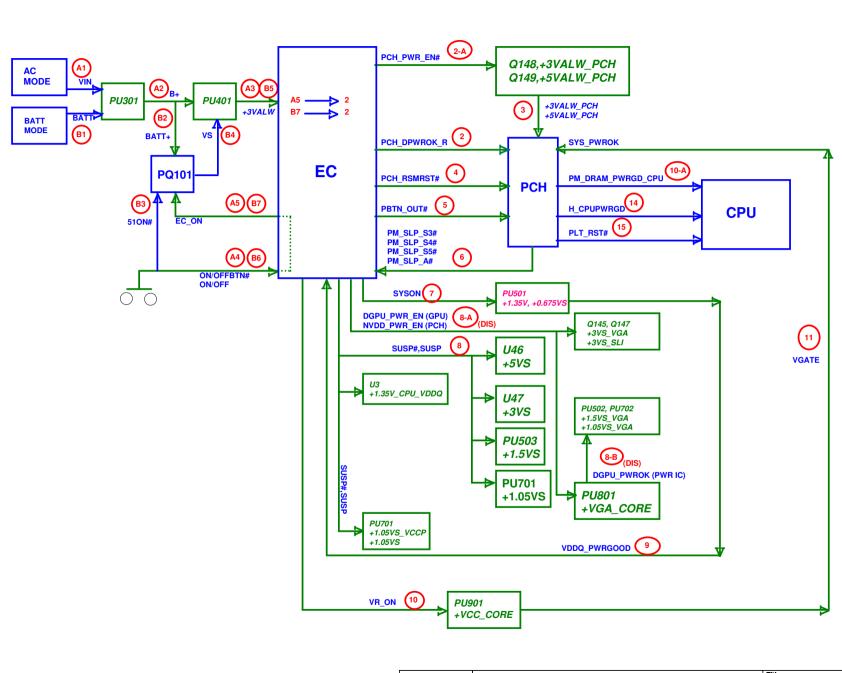












Security Classification	LC Future Center Secret Data			Title			
Issued Date	2012/07/01	Deciphered Date	2014/07/01	Power Sequence		LCFC	
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HW PIR (Product Improve Record)

QIQY5 LA-8691P SCHEMATIC CHANGE LIST

REVISION CHANGE: 0.2

GERBER-OUT DATE: 2012/03/09

 NO
 DATE
 PAGE
 MODIFICATION LIST
 PURPOSE

 01)
 03/14
 10
 R64
 Change R64 BOM structure from "@" to "DS3@"
 For Deep S3 Function

Security Classification	LCF	LC Future Center Secret Data						
Issued Date	2012/07/01	Deciphered Date	2014/07/01					

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Version change list (P.I.R. List)

Page 1 of 1 for PWR

Item	Reason for change	PG#	for PWR Modify List	Date	Phase
	Tourse Tourse				
1		51		201109/27	B test
2				201109/27	B test
3		51		201109/27	B test
4		53		201109/27	B test
5		56		201109/27	B test
6		56		201109/27	B test
7		57		201109/27	B test
8		55/58	i a	201109/27	B test
9		59		201109/27	B test
10					
11					
12					
13					
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16					
17					

Security Classification	F			Compal Electron	ics, Inc.	
Issued Date	2011/06/30	Deciphered Date	2012/12/31	PIR (PWR)		
AND THADE SECRET INFO	NMATION. THIS SHEET WAT NOT BE THAT	TRONICS, INC. AND CONTAINS CONFIDENTIA ODY OF THE COMPETENT DIVISION OF R&D	Size Document Number		Rev 1.0	
	AUTHORIZED BY COMPAL ELECTRONICS LOSED TO ANY THIRD PARTY WITHOUT F			Custom Y490-LA8691	-	70