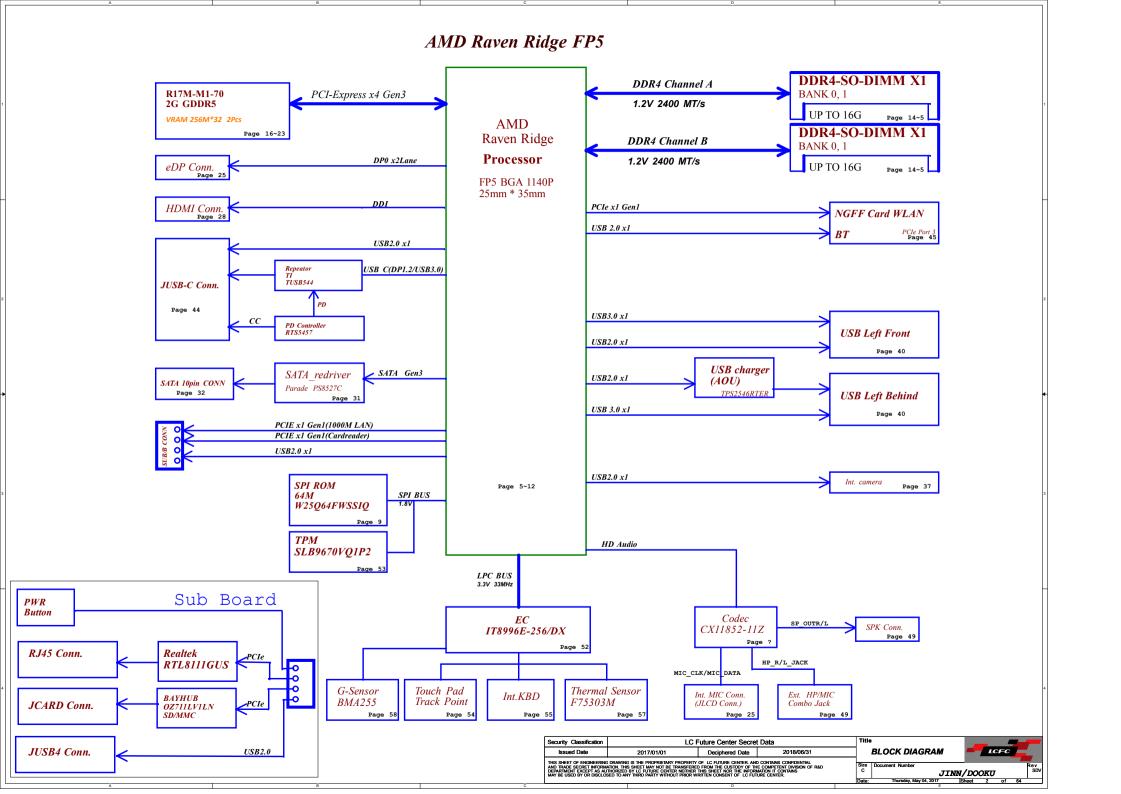
LCFC Confidential RAVEN EX85 Rev0.1 Schematic

AMD Raven Ridge FP5 Processor with DDR4 R17M-M1-70 with DDR5 2GB

2017-3-30 Rev0.1

Security Classification	LC Future Center Secret Data				1			
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Voltage Rails (O --> Means ON , X --> Means OFF)

Voltage Rails (U-	-> wearis C	/N , X> ivieal	is off)	
Power Plane State	B9+	+3VALW +5VALW +1.8VALW +0.9VALW_VDDP	+1.2V +2.5V	+5VS +3VS +1.5VS +0.9VS_VDDP +0.6VS +VDDCR_SOC +VDDC_VDD +VGA_CORE +3.3VGS +1.8VGS +1.35VGS +0.95VGS
so	0	0	0	0
s3	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	x	х

SIGNAL	SLP_A#	SLP_S3#	SL	P_S5#	EC_ON	SUSP#
so	HIGH	HIGH	Н	HIGH	ON	ON
S3 (Suspend to RAM)	LOW	LOW	Н	HIGH	ON	OFF
S4 (Suspend to Disk)	LOW	LOW	Н	HIGH	ON	OFF
S5 (Soft OFF)	LOW	LOW		LOW	ON	OFF

USB2 Port

USB3 Port

PCIE Port

SATA Port

Port	Device	Port	Device
0	USBC	0	USB Type-C
1	USB3 port1	1	USB3 port1
2	USB3 port2	2	USB3 port2
3	USB2 port1	3	X
4	USB (WLAN)		
5	Int. Camera	4	X

Port	Device
0	LAN
1	CardReader
2	WLAN
3	X
4	X
5	X
GFX0	GPU
GFX1	GPU
GFX2	GPU
GFX3	GPU

Port Device

SMBUS Control Table

	SOURCE	Main VGA	BATT	SODIMM	WLAN WiMAX	Thermal Sensor	APU	CP Module	Charge	PD	G-Sensor	PMIC
EC_SMB_CK1 EC_SMB_DA1	IT8986F +3VL	X	V +3VL	X	X	X	X	X	V +3VL	X	x	X
EC_SMB_CK2 EC_SMB_DA2	IT8986F +3VALW	х	x	x	x	х	x	х	X	V +3VALW	X	x
EC_SMB_CK3 EC_SMB_DA3	IT8986F +3VS	V +3VS_VGA	X	X	X	V +3VS	V +3vs	х	X	X	V +3VS	x
EC_SMB_CK4 EC_SMB_DA4	IT8986F +3VL	X	X	x	X	X	x	x	X	x	х	v

APU I2C

APU Port	Net	Device
I2C2_SCL/SDA	APU_SMB0CLK/SDA	DIMM1/DIMM2
I2C3_SCL/SDA	APU_SMB1_CLK/SDA	TOUCHPAD
SIC/SID	EC_SMB_CK3/DA3	Conn EC
USBC_I2C_SCL /SDA	EC_SMB_CK2/DA2	PD

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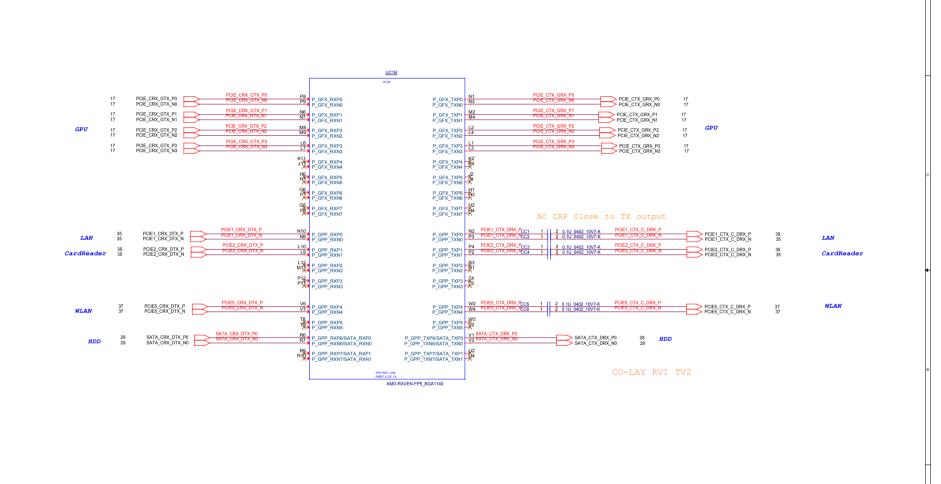


APPLY PCB PN

BOM Structure Table

BOM Structure	NOTE
HDT@	For HDT AMD debug port
LPC@	For LPC AMD debug port
PX@	For GPU function
<i>X</i> 76@	GPU VRAM Setting
TPM @	Trusted Platform Module(TPM)
UMA @	UMA SKU ID
CD@	COST DOWN
EMC_NS@	EMC Reserves
ME @	ME Connector
RF@	For RF function
EMC@	For EMI function
RF_NS@	reserves RF component
RF_PXNS@	VGA reserves RF component
140	14 inch
150	15 inch

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Security Classification

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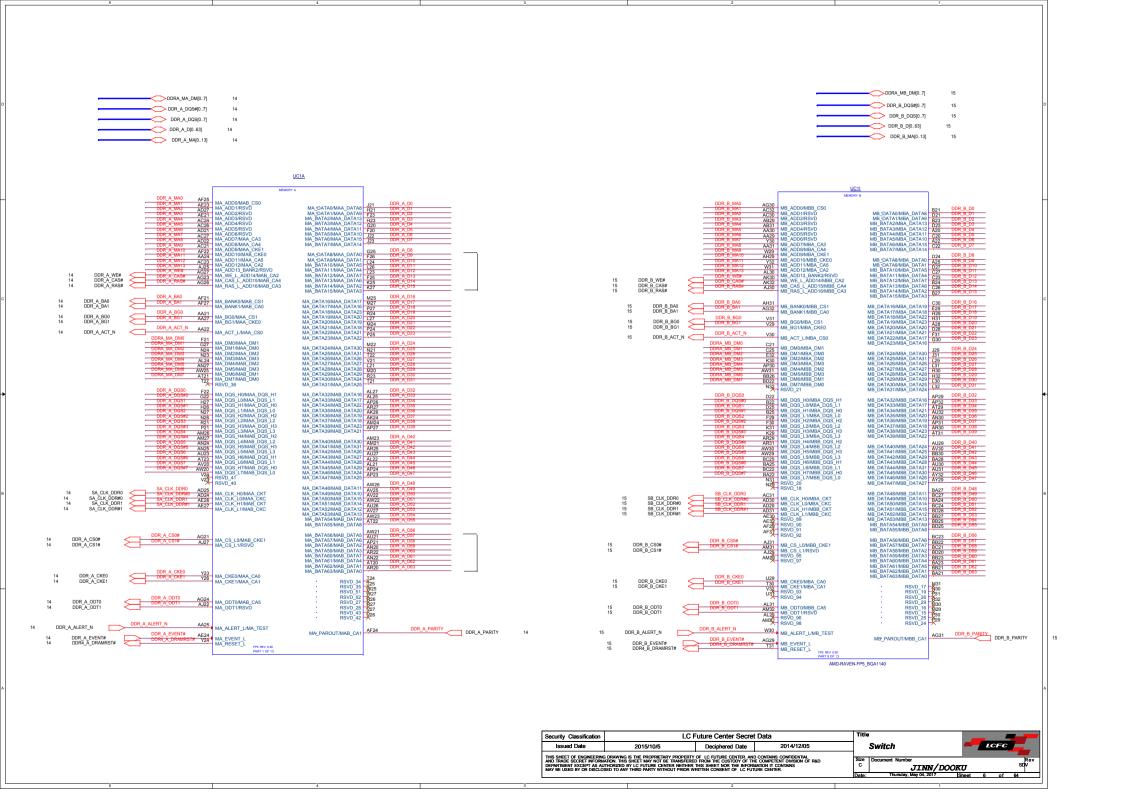
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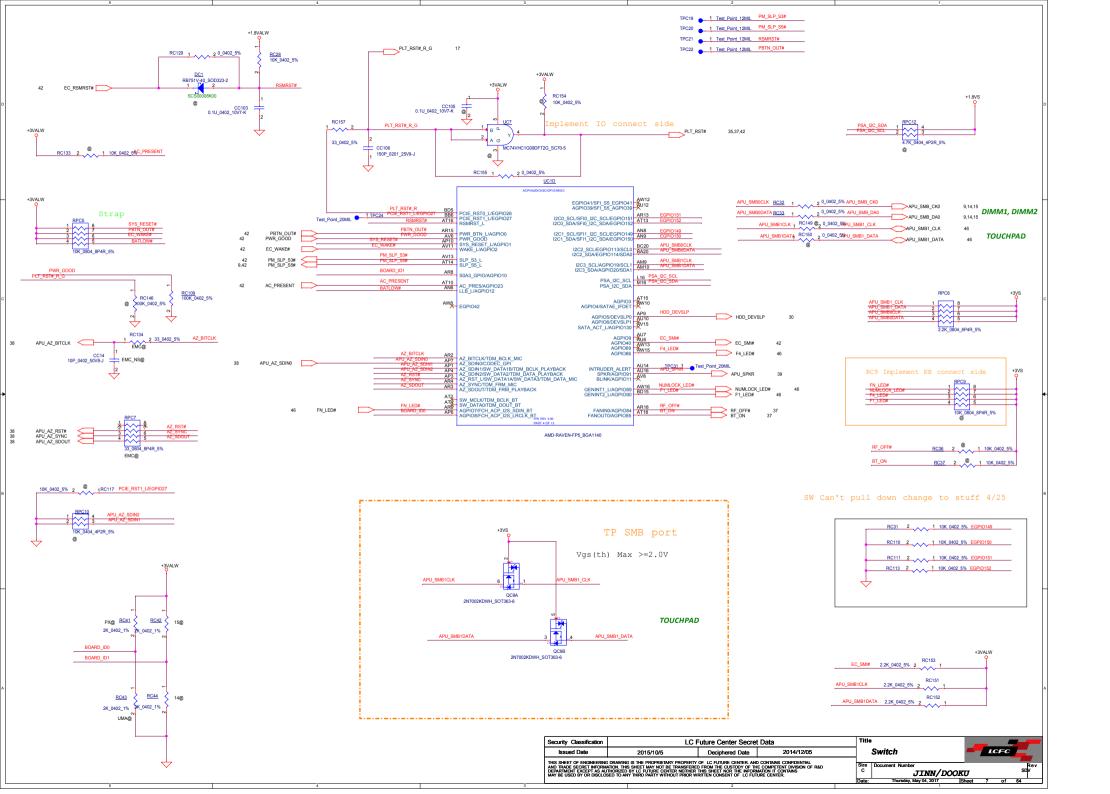
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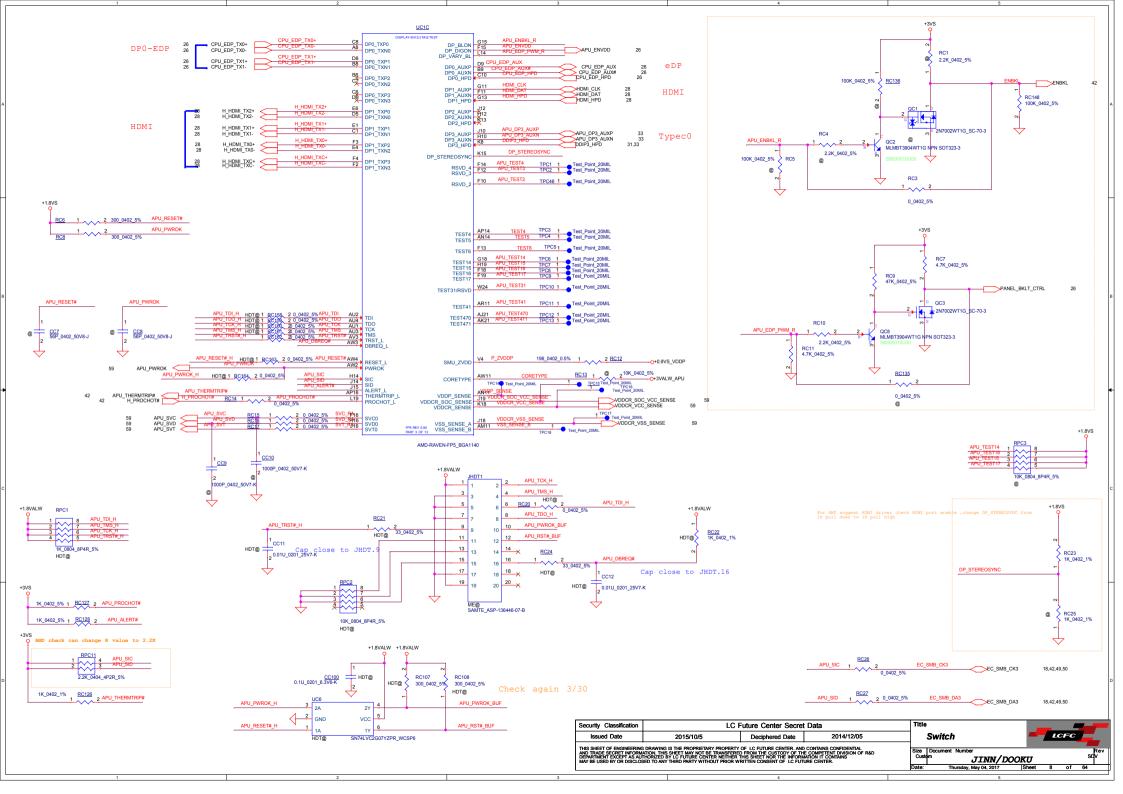
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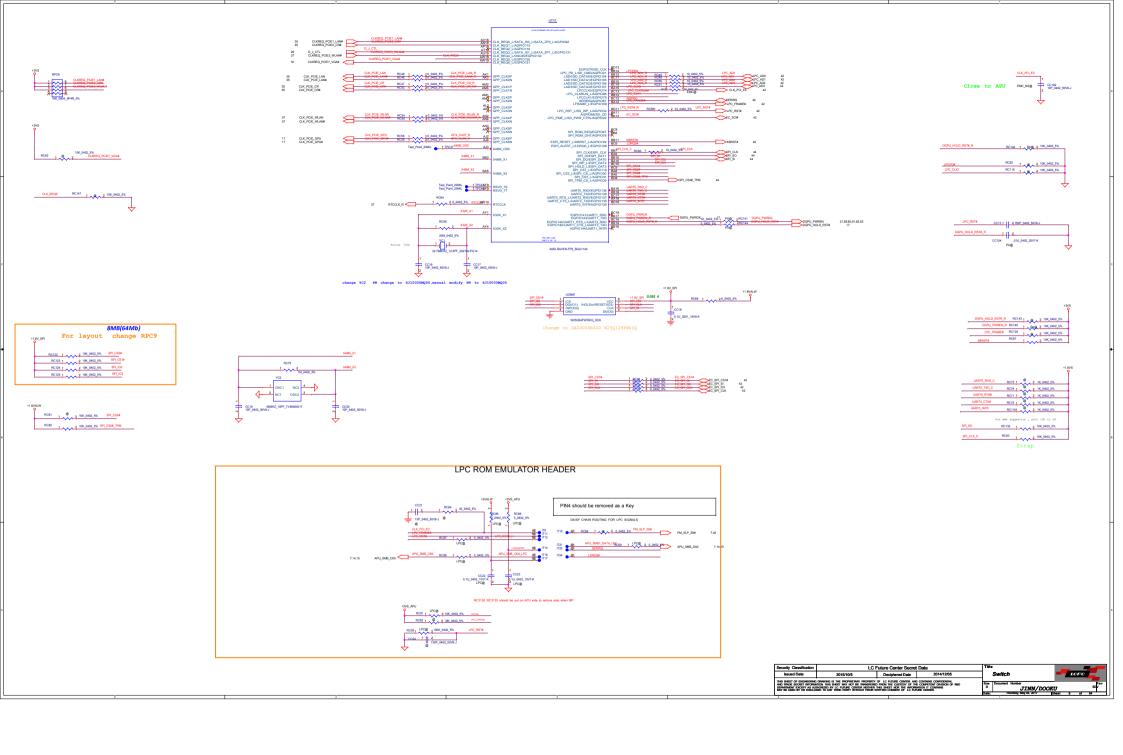
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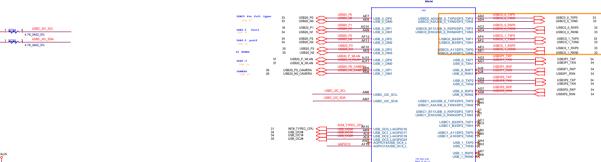






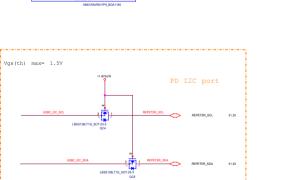






RC99 1 2 USB_OC2#

RC118 10K_0402_5%



USBC0_0_TXP0 USBC0_0_TXN0

USBC0_0_RXP0 USBC0_0_RXN0

33 33

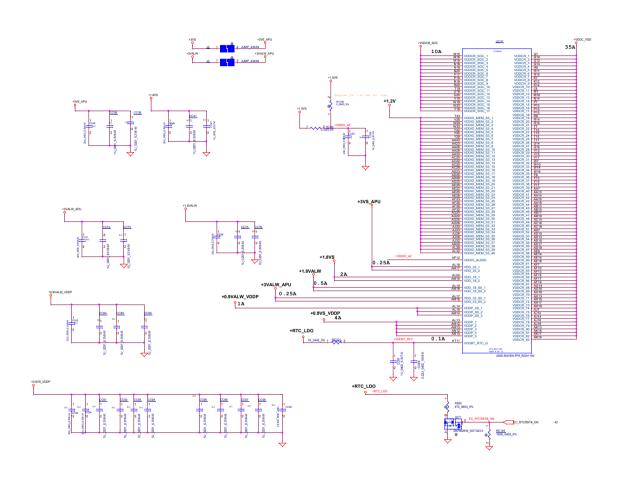
2220.0 port2

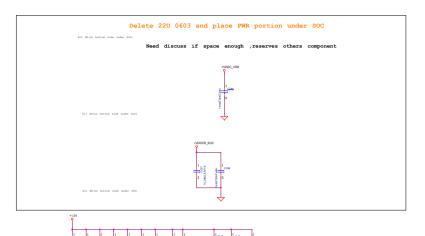
USBCD_All/DP2_TEX[0]1 =-IOVF-D USB Super Speed Fort Receive USBCD_All/DP3_TEX[0]1 =-IOVF-D USB Super Speed Fort Receive USBCD_All/DP3_TEX[1]1 O-DOVF-D USB Super Speed Fort Transmit

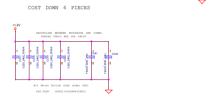
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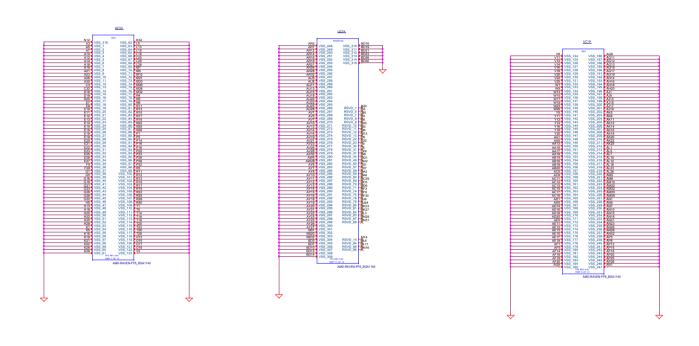
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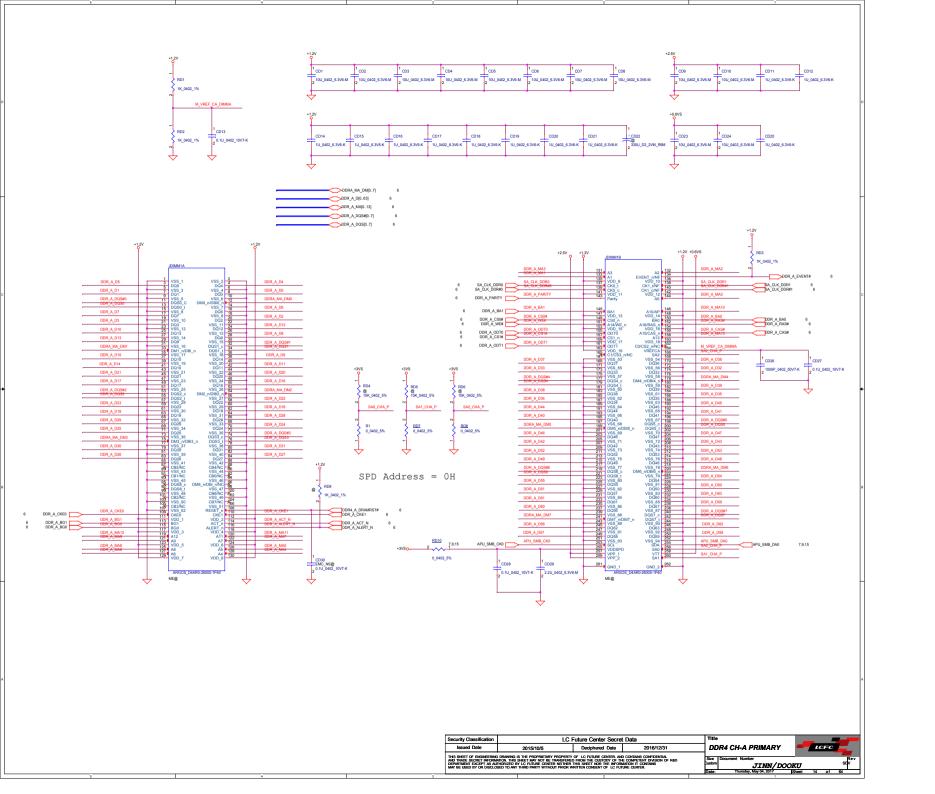


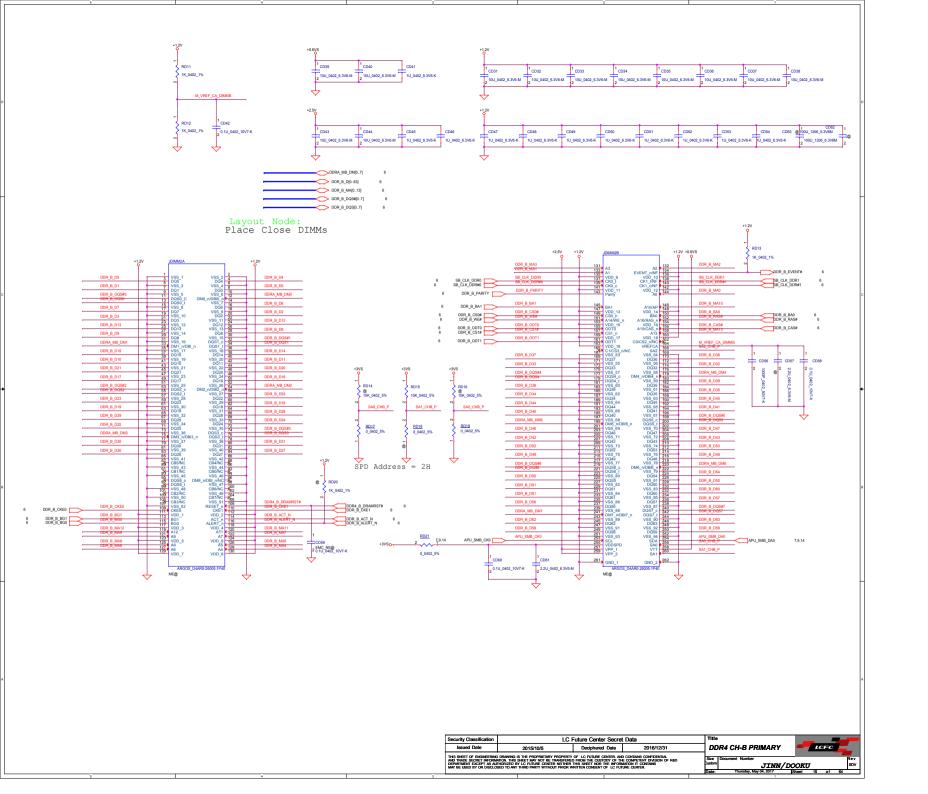


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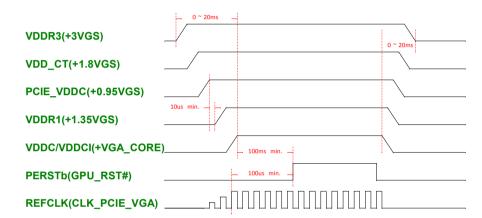
Power-Up/Down Sequence

"Topaz" has the following requirements with regards to power-supply sequencing to avoid damaging the ASIC:

All the ASIC supplies must reach their respective nominal voltages within 20 ms of the start of the ramp-up sequence, though a shorter ramp-up duration is preferred. The maximum slew rate on all rails is 50 mV/µ s.

It is recommended that the 3.3-V rail ramp up first. The 3.3-V, 1.8-V, and 0.95-V rails must reach their ready state at least 10 μ s before VDDC, VDDCI, and VMEMIO start to ramp up.

The power rails that are shared with other components on the system should be gated for the dGPU so that when the dGPU is powered down (for example AMD PowerXpress idle state), all the power rails are removed from the dGPU. The gate circuits must meet the slew rate requirement (such as \le 50 mV/ μ s). For power down, reversing the ramp-up sequence is recommended.

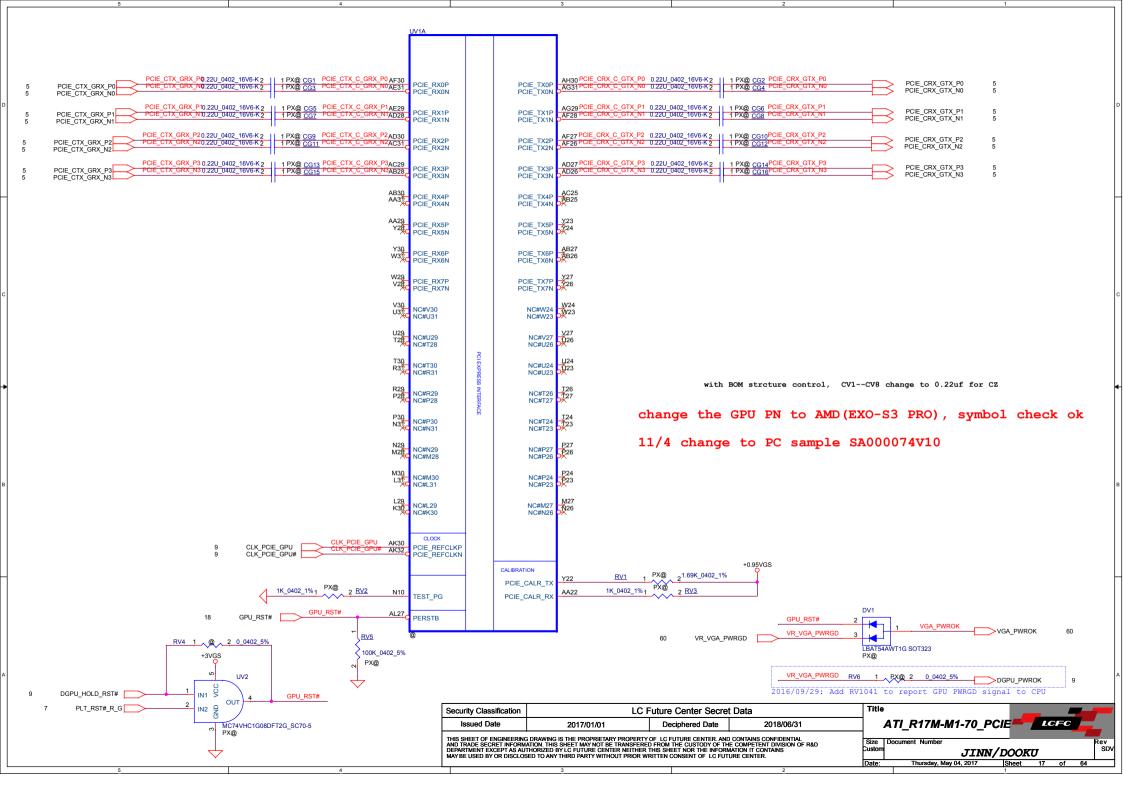


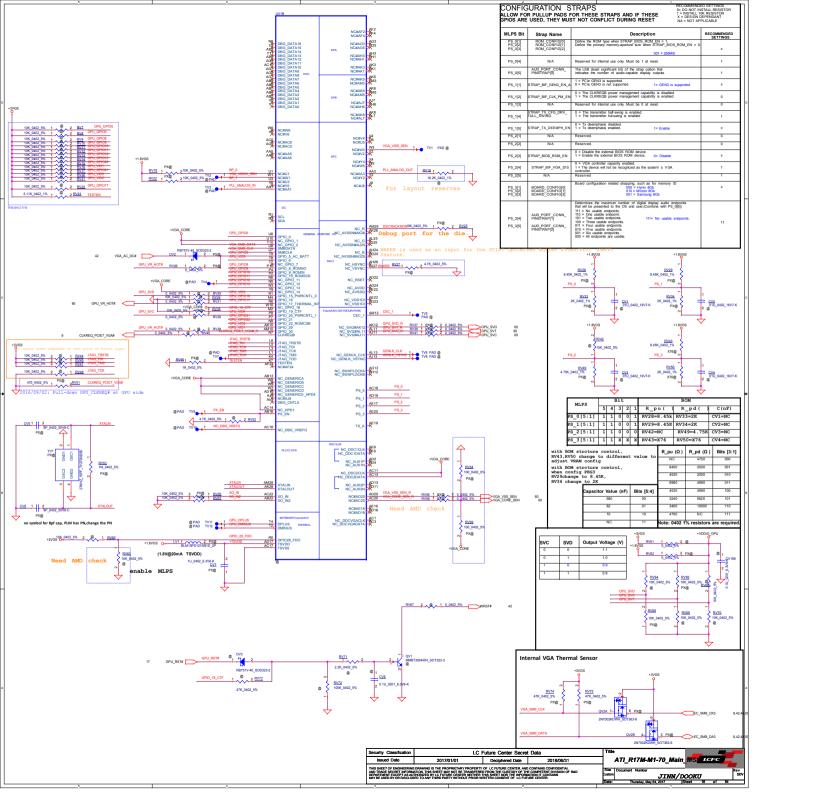
VRAM ID config

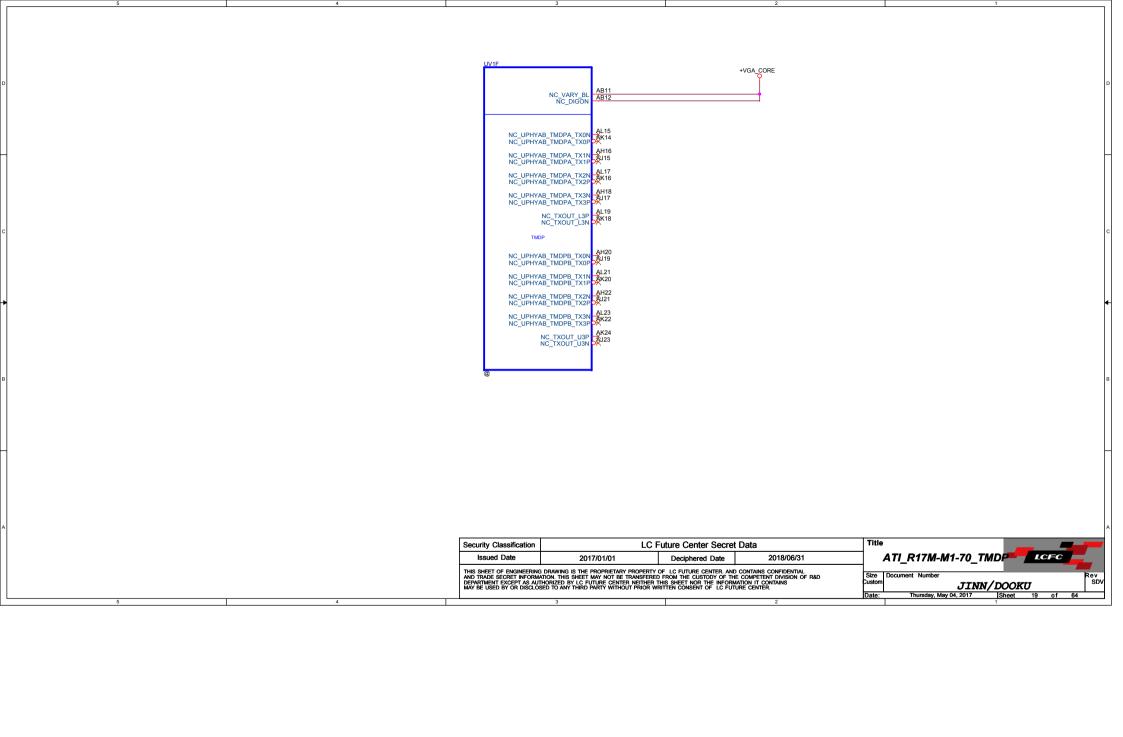
	Memory Type	VRAM ID PS_3[3:1]	PU resistor RV63	PD resistor RV70
		100	4.53K	4.99K
		111	4.75K	NC
		110	3.4K	10K
	Hynix H5GC8H24MJR-R0C 6.0Gbps@1.35V	000	NC	4.75K
8Gb GDDR5	Micron MT51J256M32HF-70:A 6.0Gbps@1.35V	010	4.53K	2K
	Samsung K4G80325FB-HC28 6.0Gbps@1.35V	001	8.45K	2K

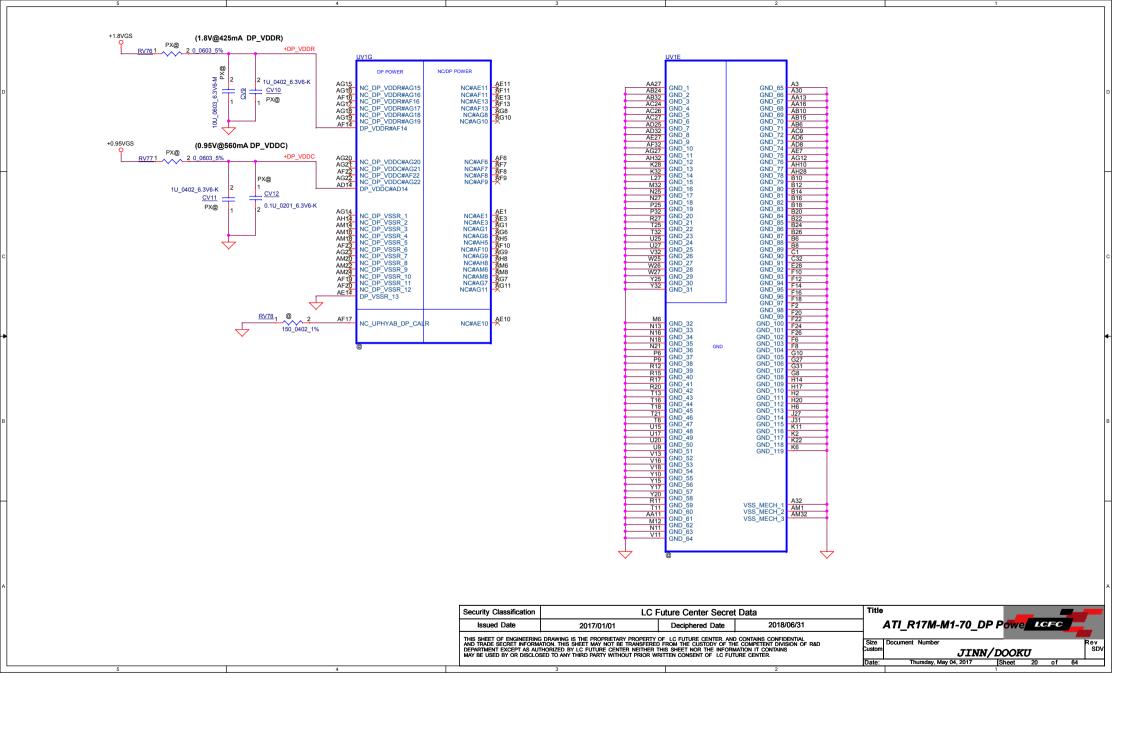
3 Hynix H5GC8H24MJR-R0C Samsung K4G80325FB-HC28 Micron MT51J256M32HF-70:A

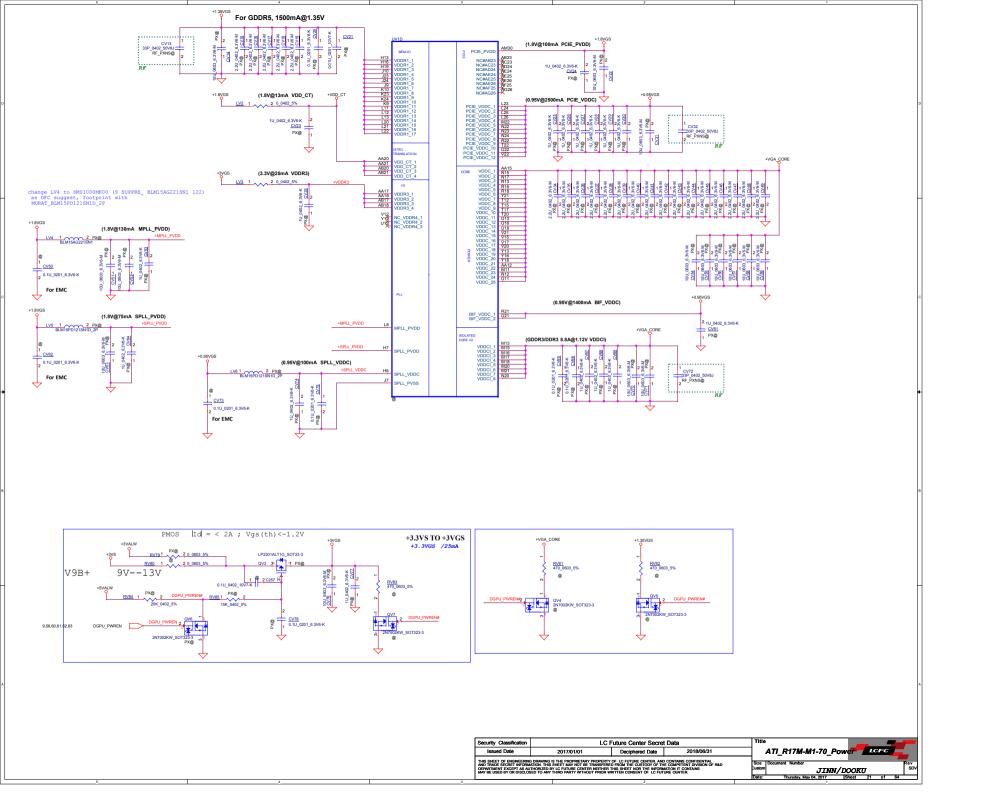
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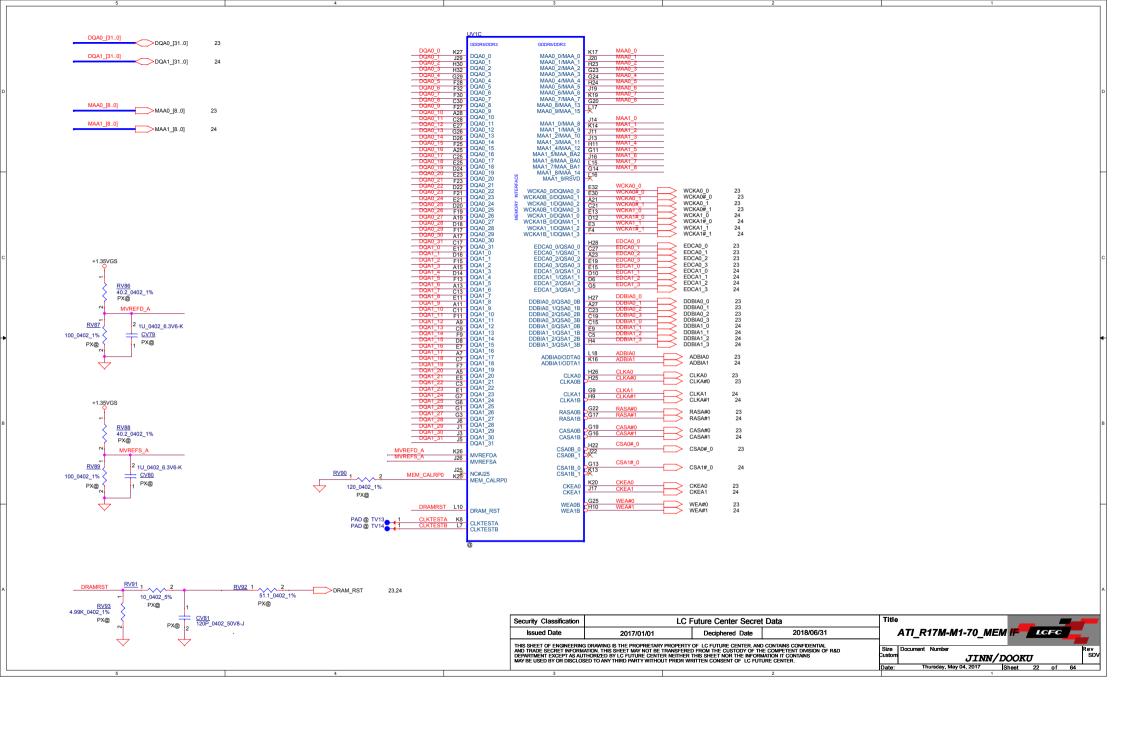


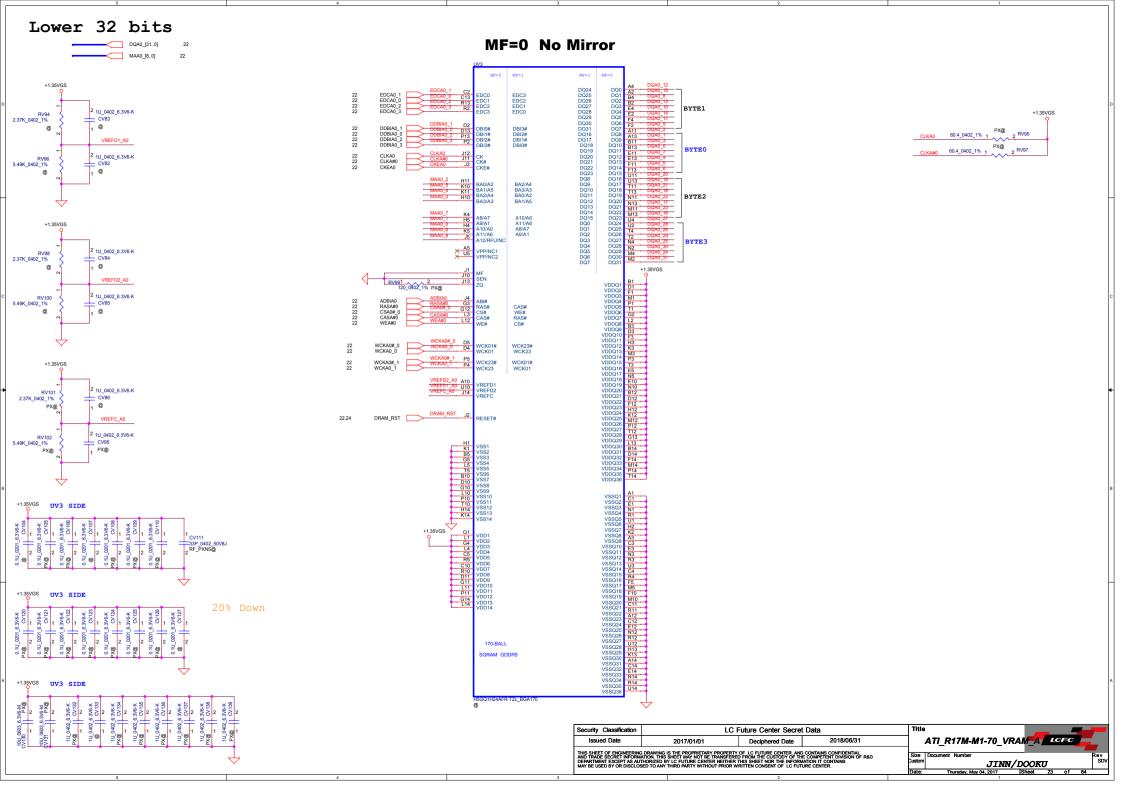


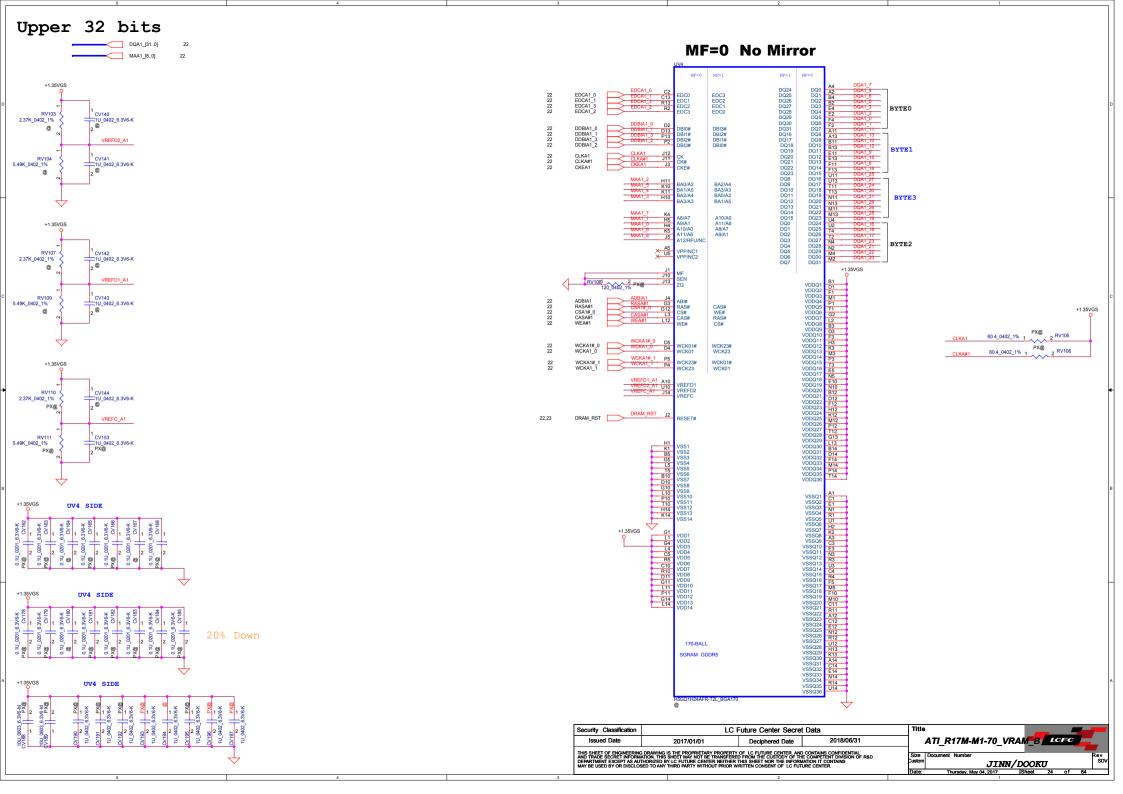


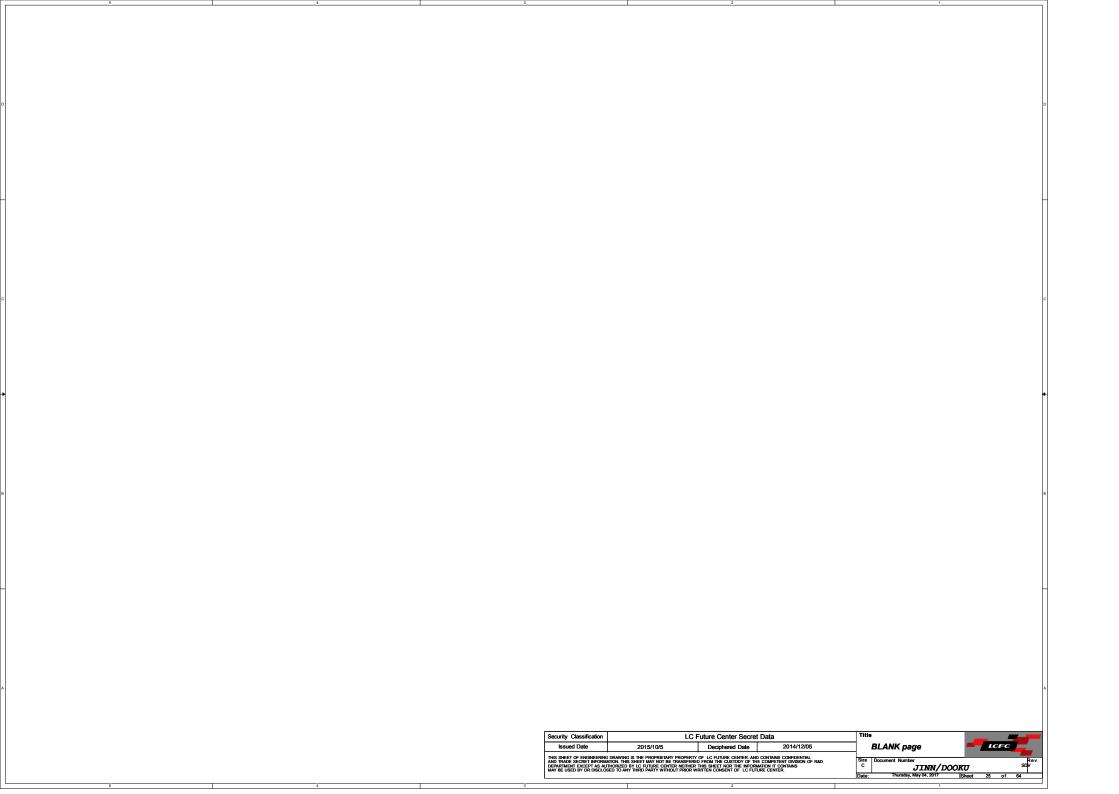


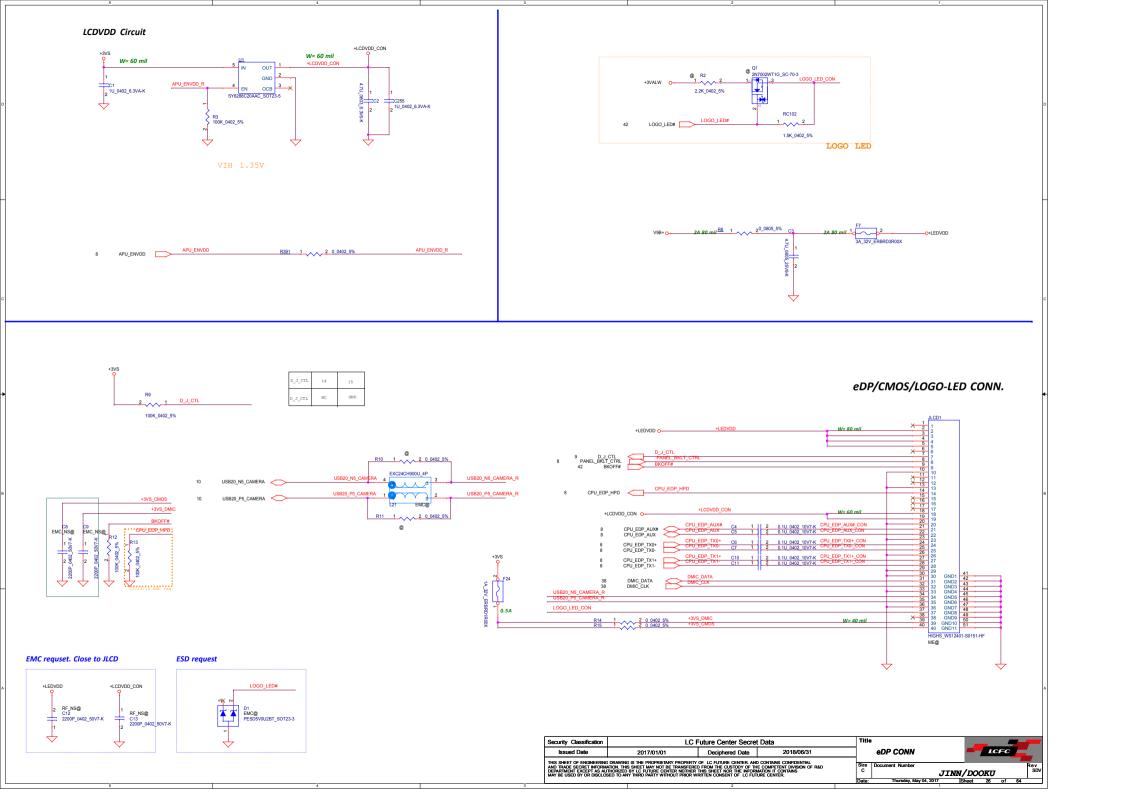


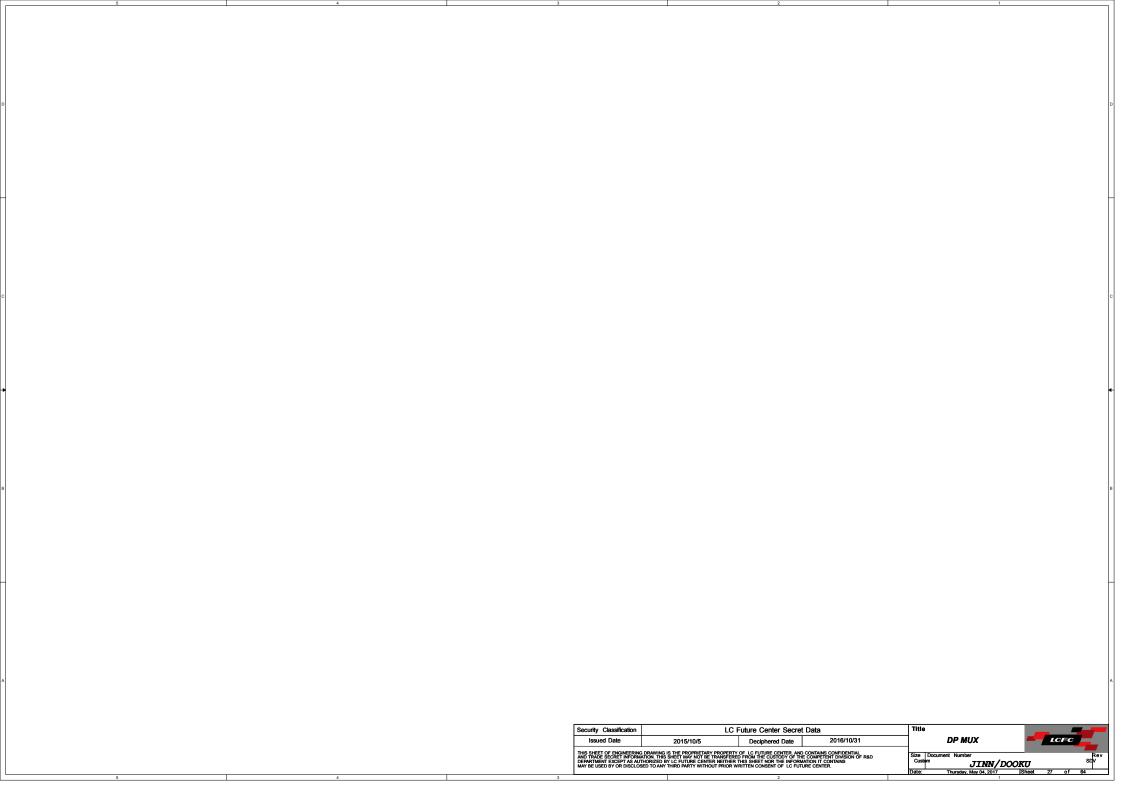


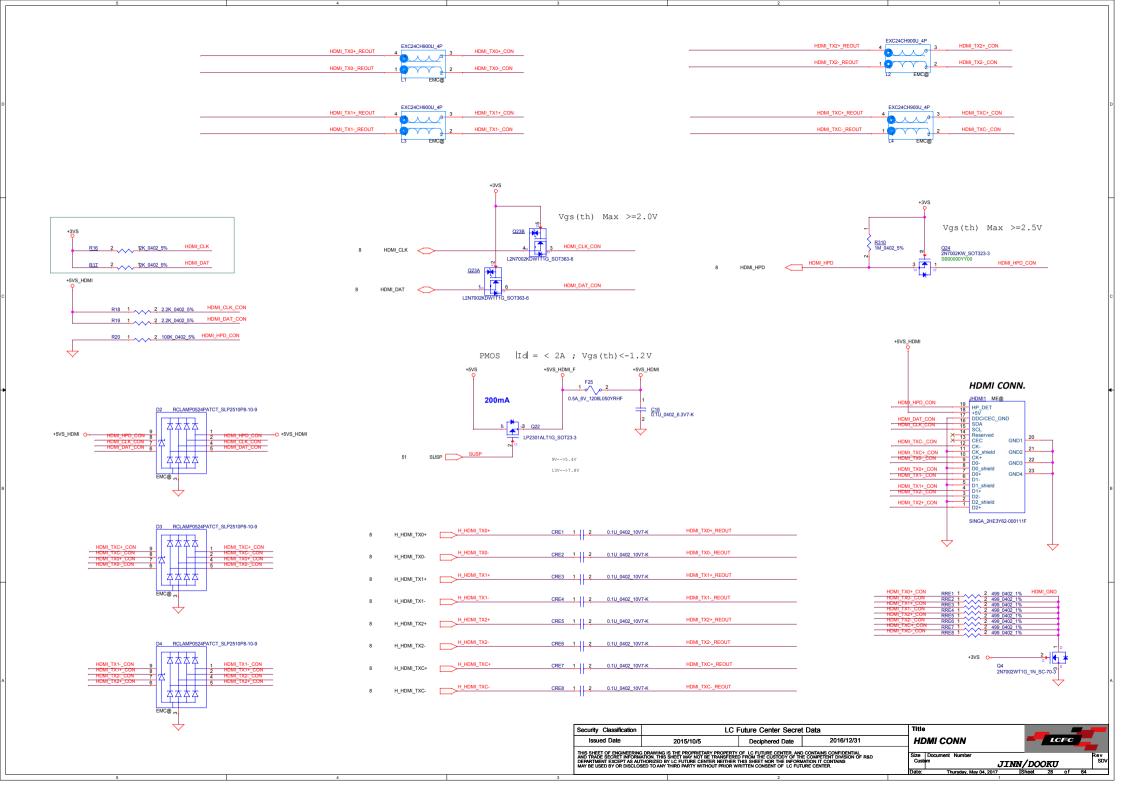




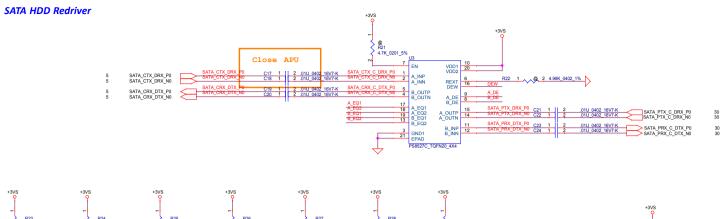


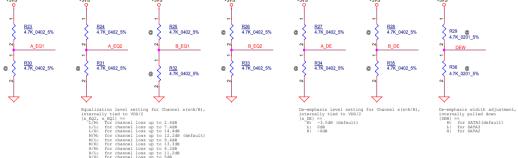


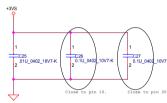




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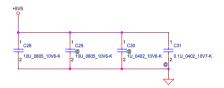




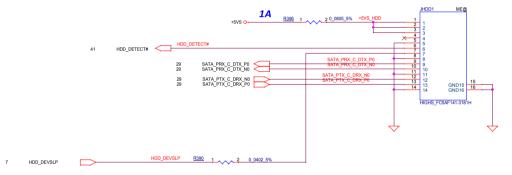
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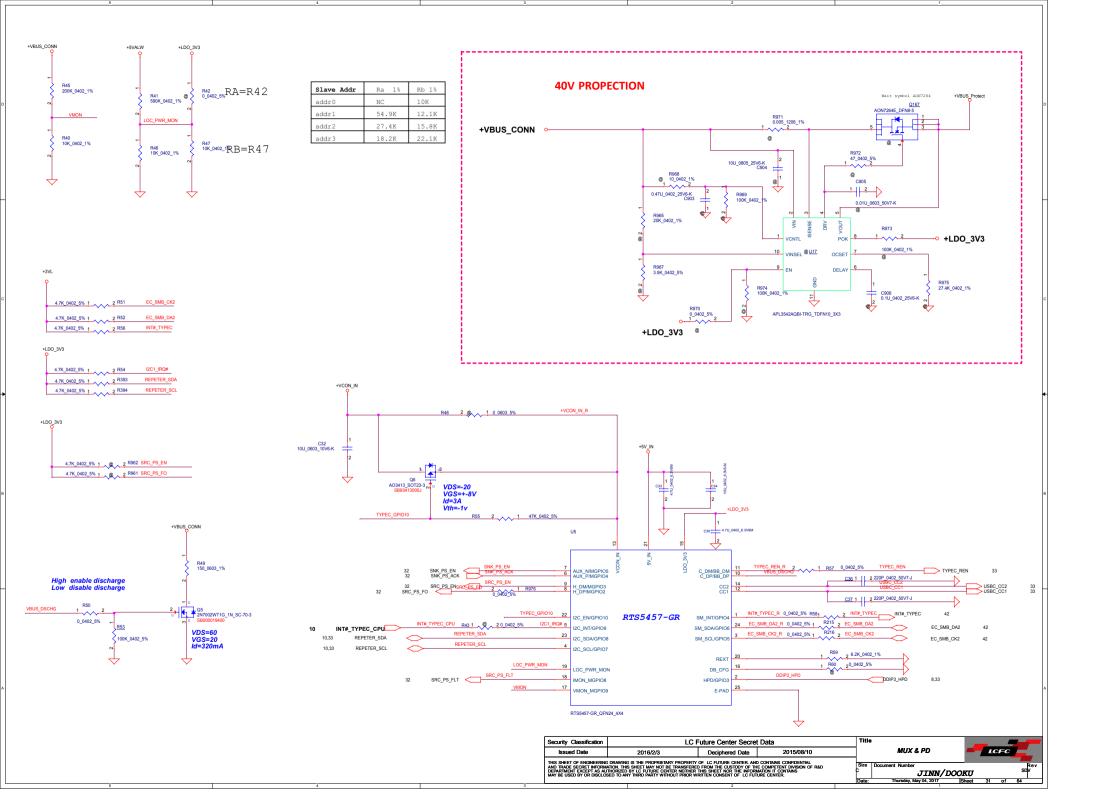
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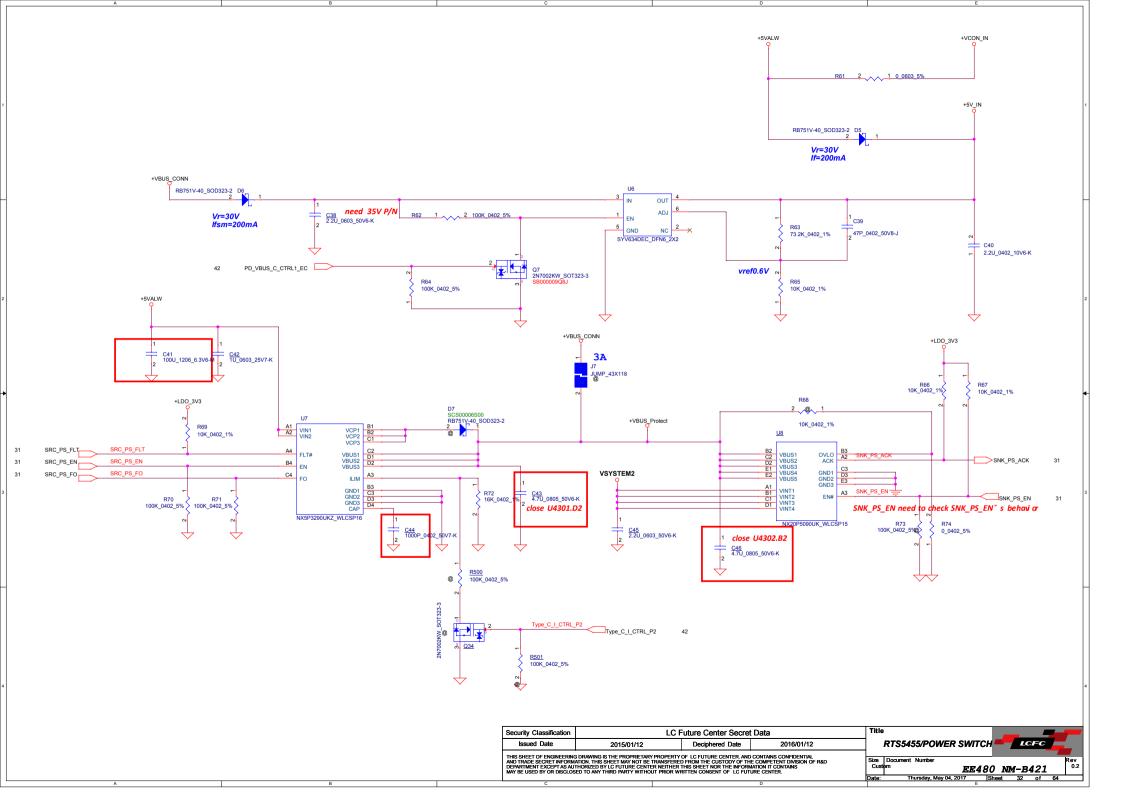
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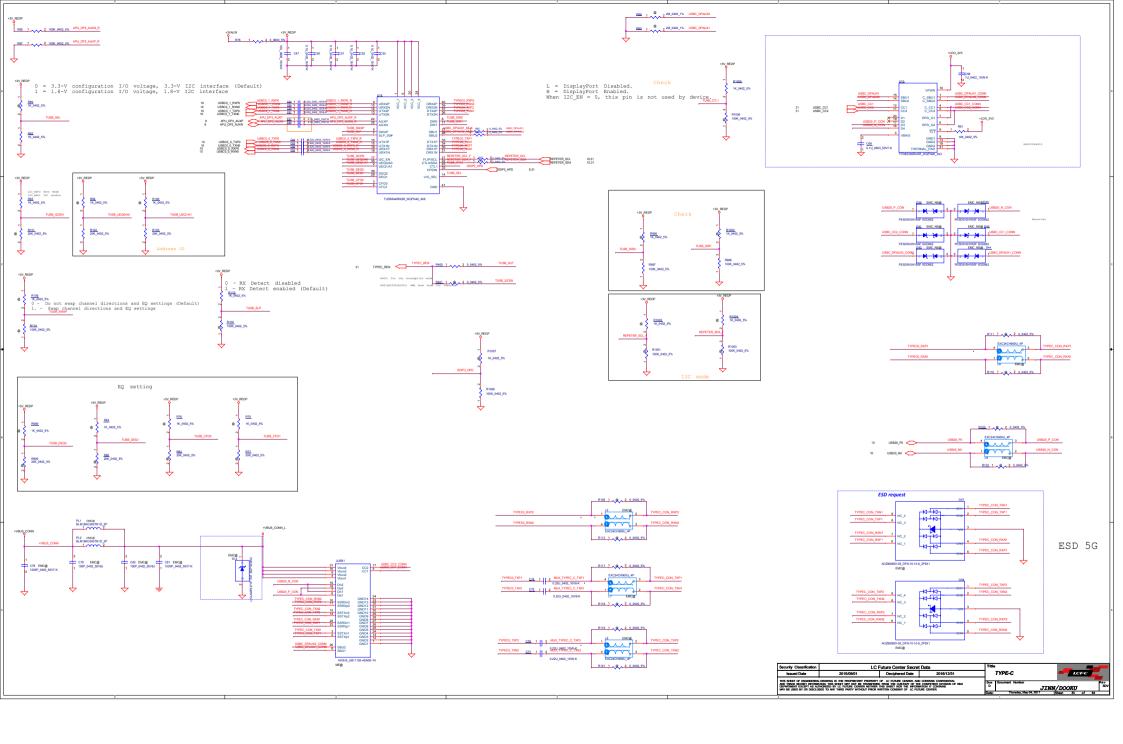
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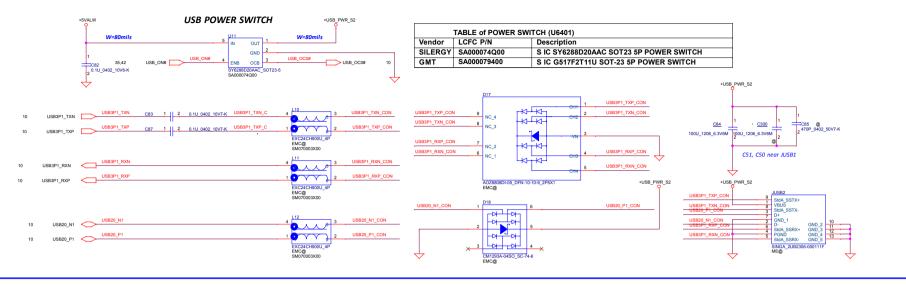
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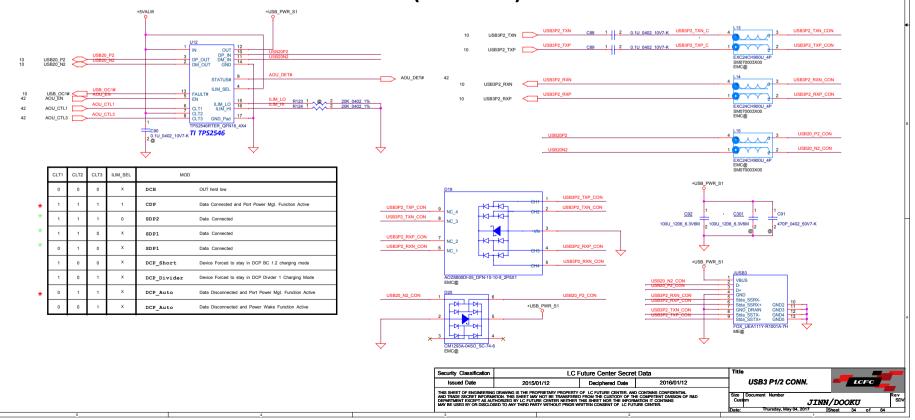




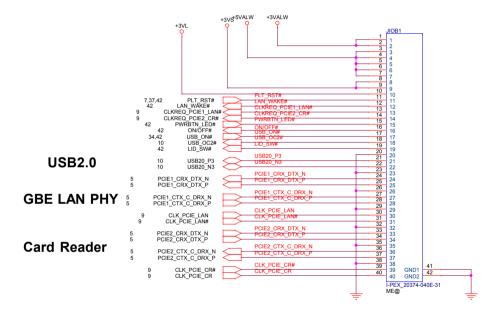
On Board (LEFT-Front)



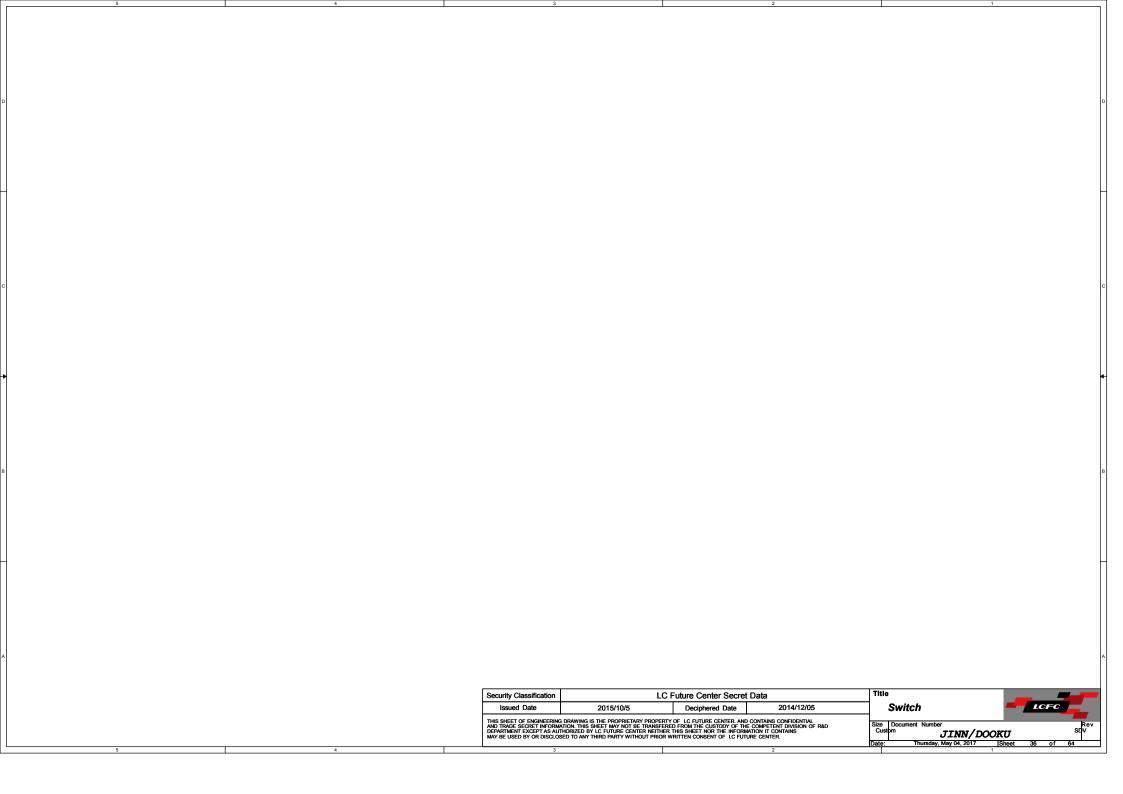
On Board (LEFT-Back)

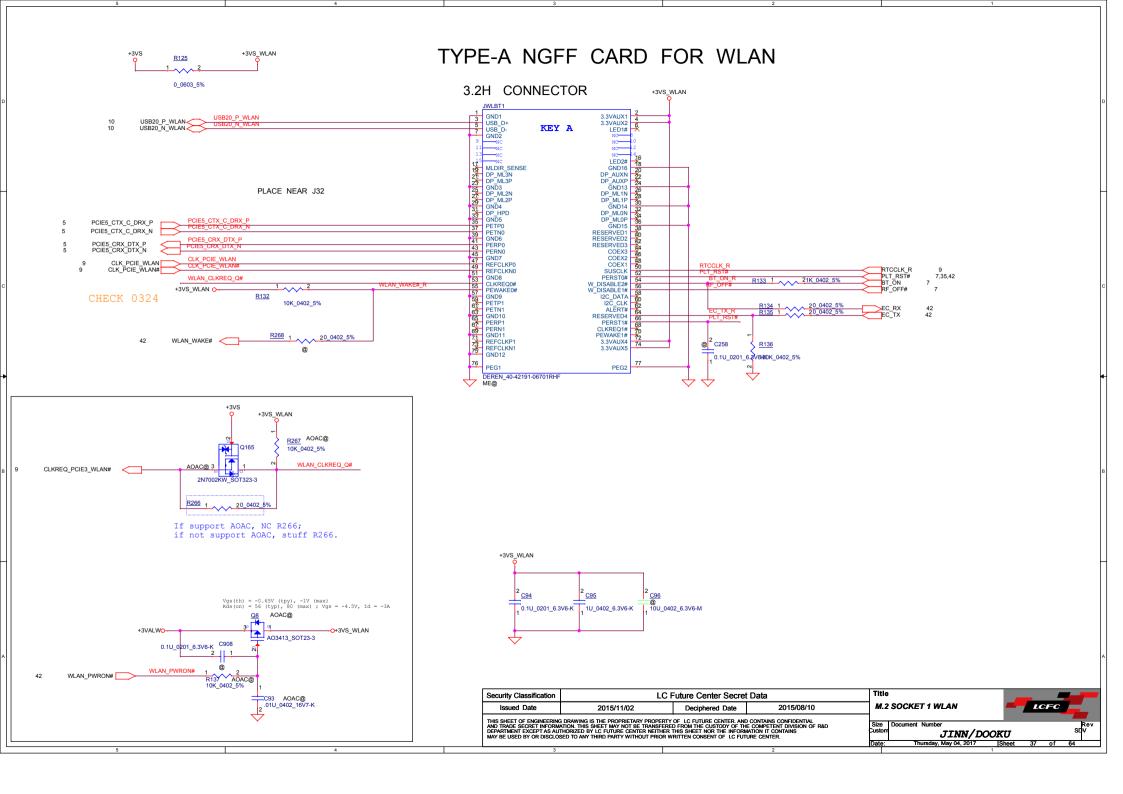


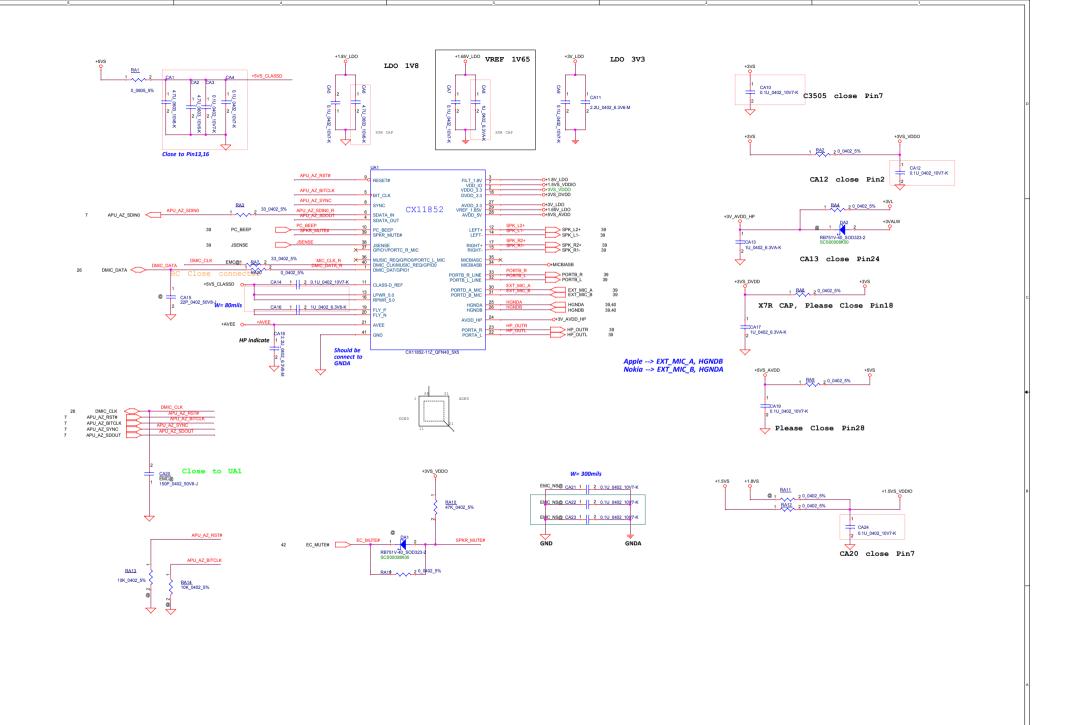
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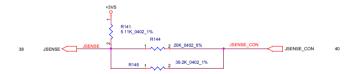
4.7K_0402_5%

EXT. MIC/LINE IN Apple --> EXT_MIC_A, HGNDB



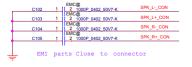
HeadPhone/LINE OUT

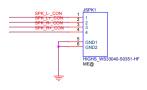




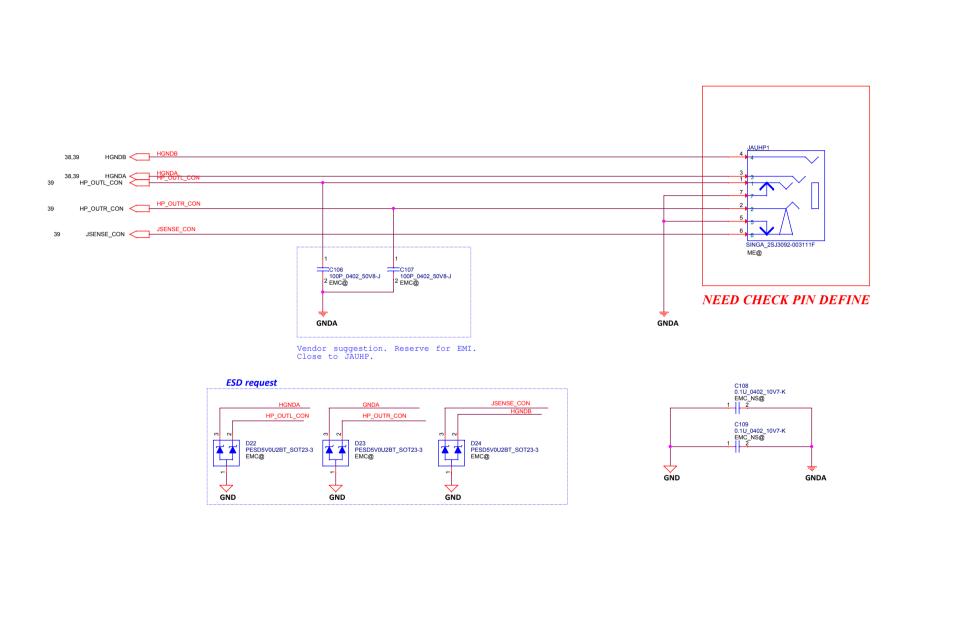
SPK CONN.

38	SPK_L1-	L16 1	LCON
38	SPK L2+		L+_CON
38	SPK R1-		RCON
38	SPK_RIP	L19 1 2 BLM18PG221SN1D 2P SPK_	R+_CON

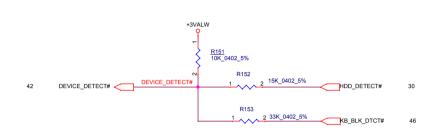




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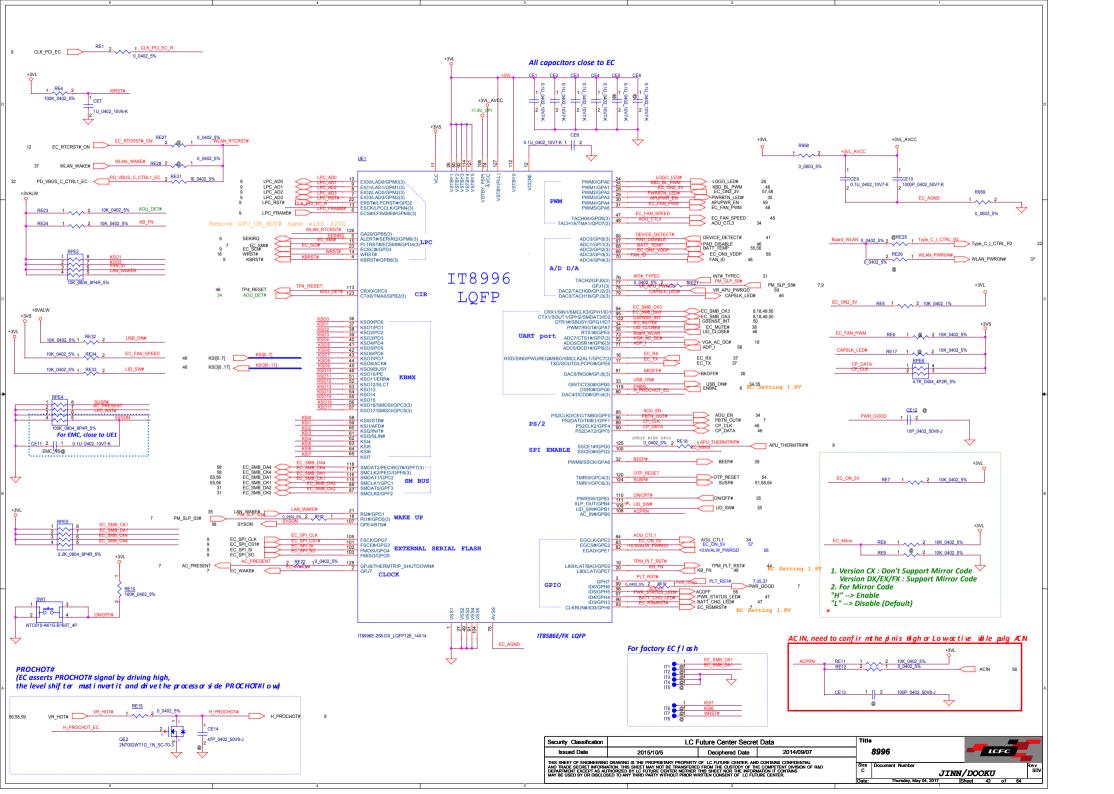
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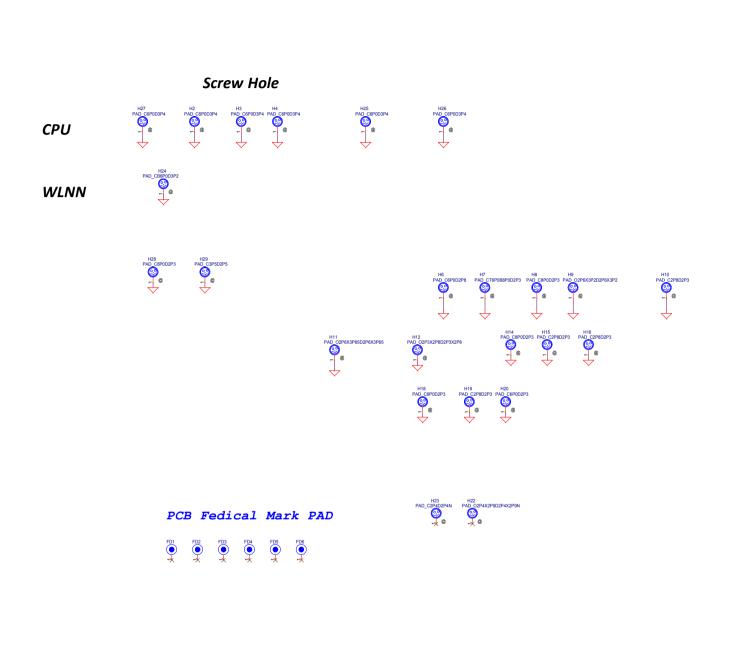


Add KB DETECT Ned check

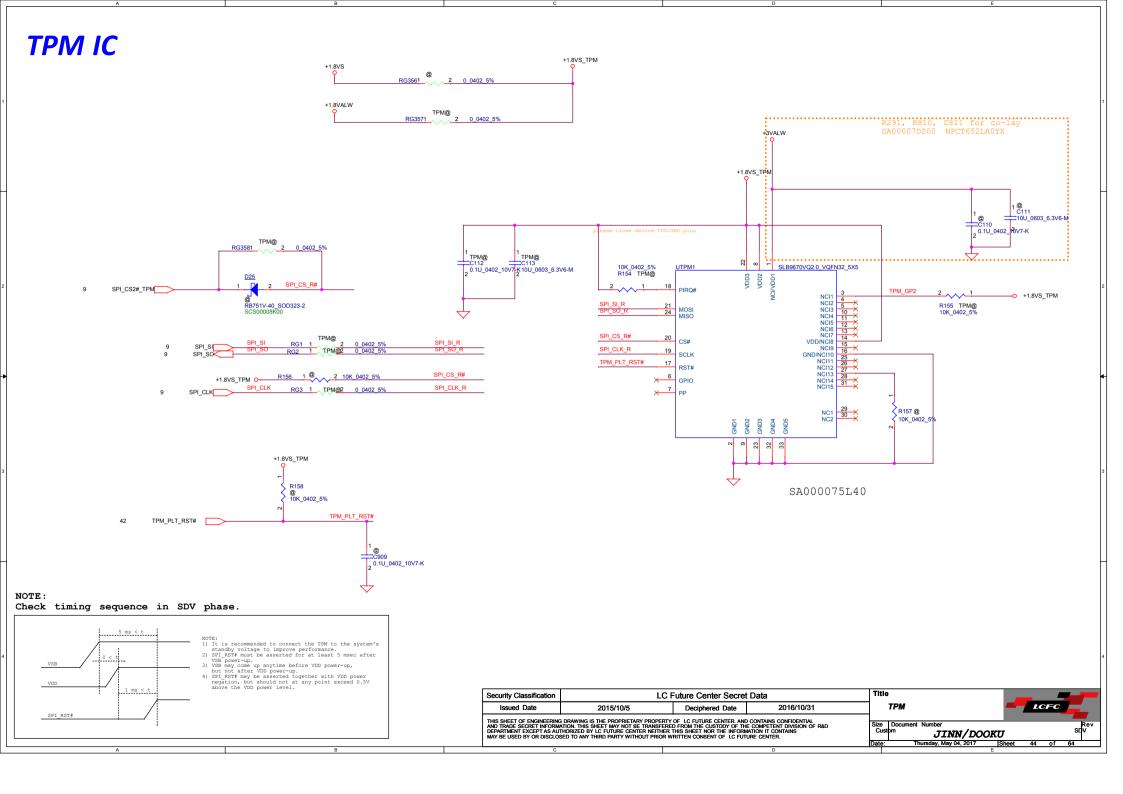
Vcc	3.3V	1														
R409	10K +/- 1%	1														
DEVICE_DETECT1#	1.98V	1.675V	1.772V	2.759V	2.533V	3.3V	2.87V	0.26V	1.82V	2.27V	2.45V	2.00V	1.64V	1.5581	<i>]</i>	
HDD_DETECT#	v	V	V	х	х	х	х	V	V	х	х	х	v	V		
KB_BLK_DTCT#	х	V	х	х	V	Х	х	v	х	v	х	v	х	V		
	х	х	V	V	Х	х	х	V	х	x	v	v	v	x		
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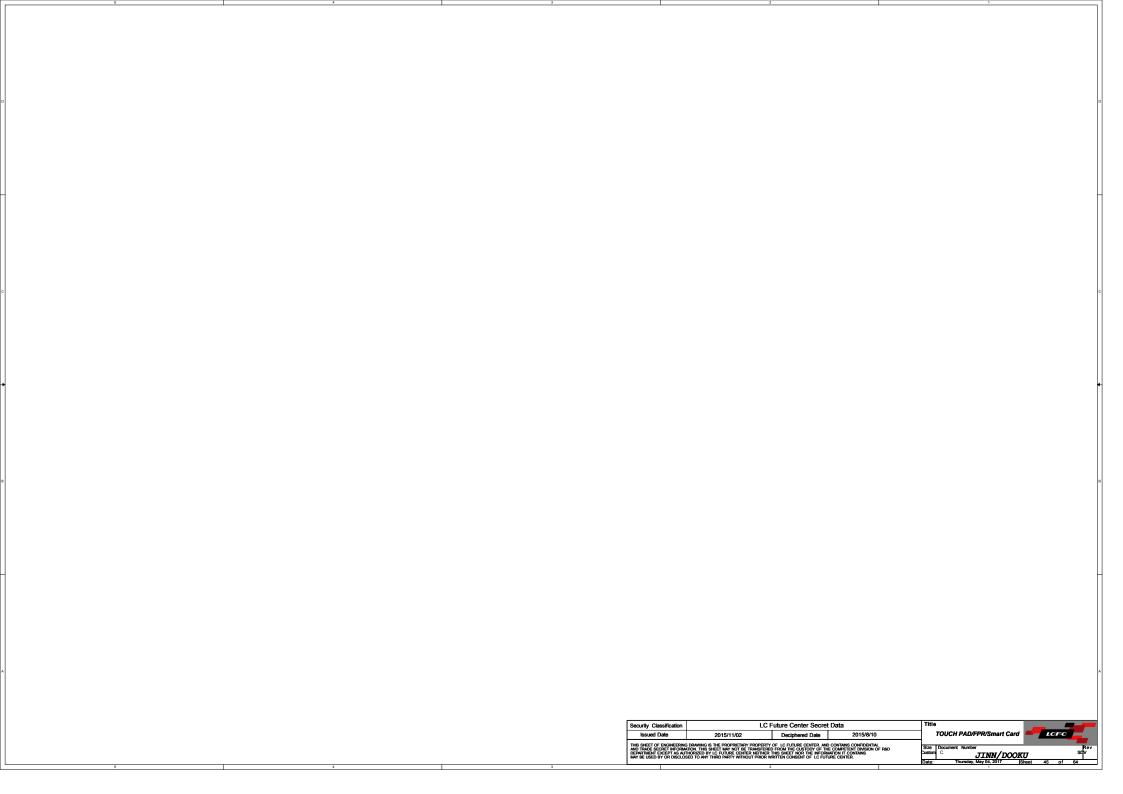
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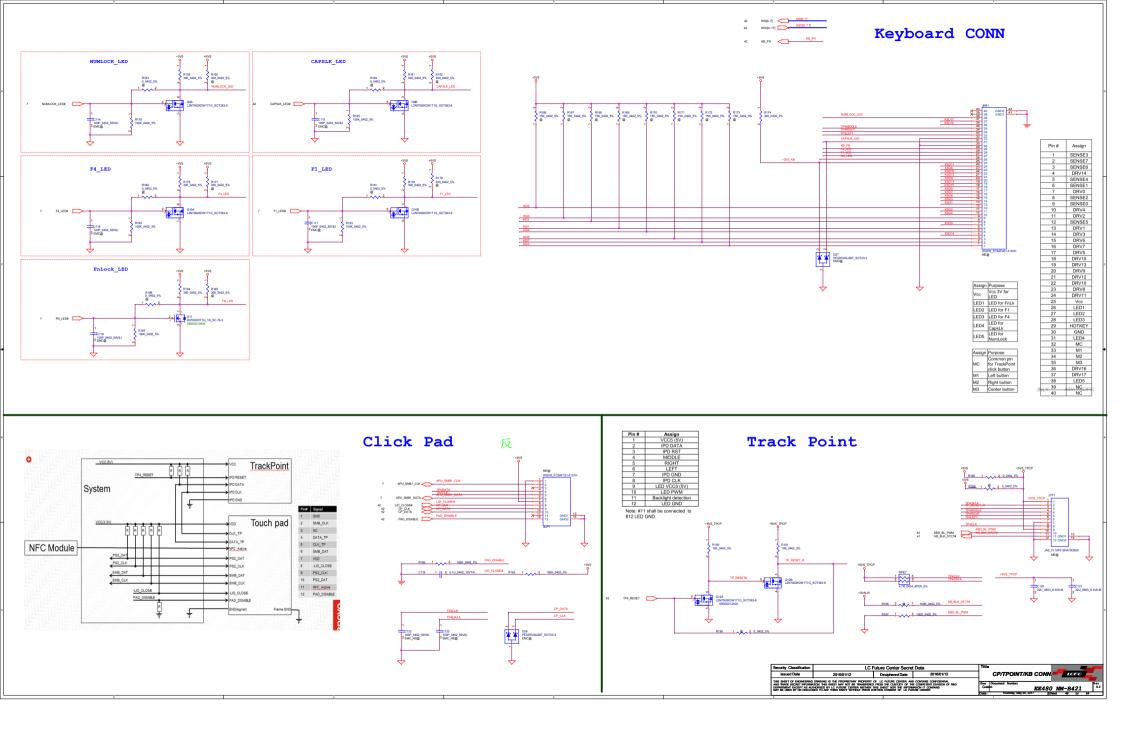


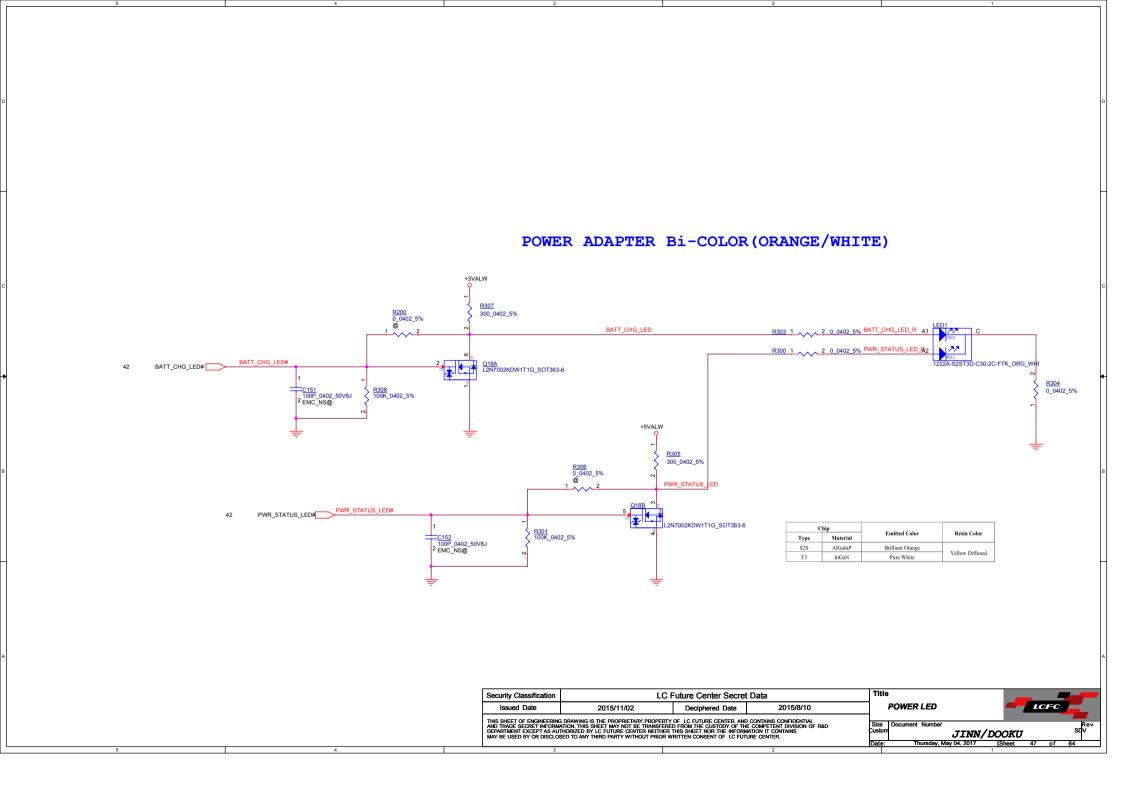


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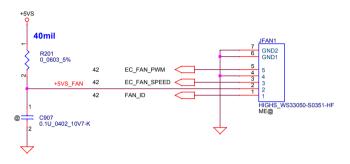






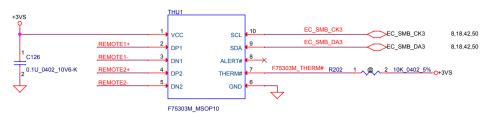


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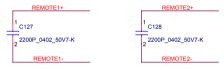
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Thermal Sensor placed near by VRAM

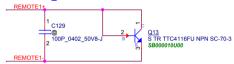


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Close to U1

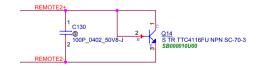


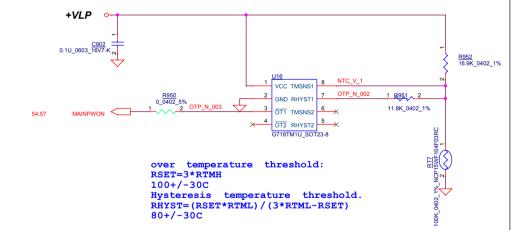




REMOTE2+/-: Trace width/space:10/10 mil Trace length:<8"

Close JDIMM1&JDIMM2





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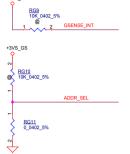
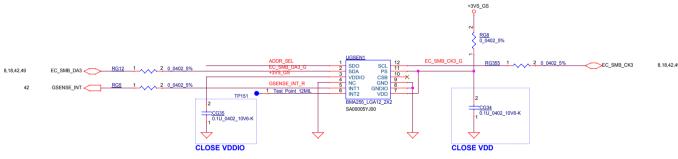


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BOSCH	BMA255	SA00005YJ00
Kionix	KX022-1020	SA000081E00

TABLE

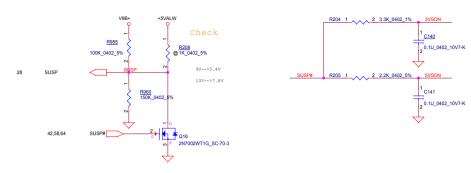
P/N	ADDR_SEL	Address
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KX022-1020	H L	3Eh (W) & 3Fh (R) 3Ch (W) & 3Dh (R)



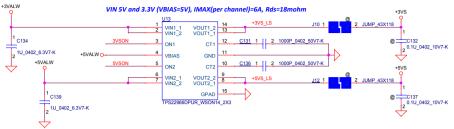


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3/5VS load Switch +5VALW To +5VS +3VALW To +3VS

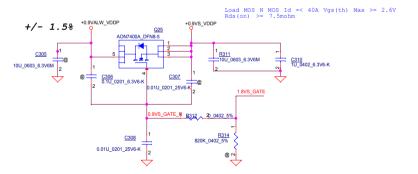


+0.9VALW_VDDP to +VDDP 10A request

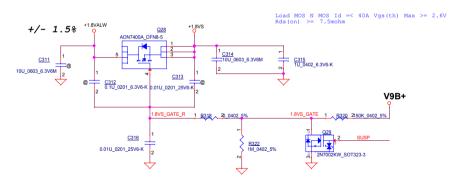
V9B+ 9V--13V

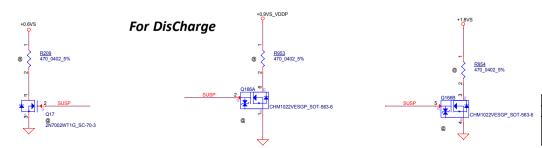
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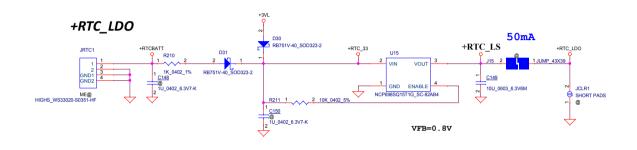


+1.8VALW to +1.8VS 2A request





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