


**CB-2**  
**VER0.1**  
**Aug./9/2013**

- |                                    |                           |                                 |
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| 19.DDI-VGA CONVERTER               | 54.AUDIO ALC292-GR        | 89.BLANK                        |
| 20.BLANK                           | 55.AUDIO CONNECTOR        | 90.BLANK                        |
| 21.XDP CONNECTOR                   | 56.AUDIO JACK SENSE       | 91.BLANK                        |
| 22.RTC BATTERY                     | 57.AUDIO EXT MIC I/F      | 92.DC/DC VCC1R5B(BU15TD2WNV)    |
| 23.SPI FLASH                       | 58.AUDIO SPEAKER          | 93.LOAD SW PCH SUS              |
| 24.DDR3L SO DIMM CHANNEL-A         | 59.AUDIO BEEP             | 94.LOAD SW LAN                  |
| 25.BLANK                           | 60.DOCKING CONNECTOR      | 95.BLANK                        |
| 26.DDR3L SO DIMM CHANNEL-B         | 61.MEC1633L(1/3)          | 96.LOAD SW B                    |
| 27.BLANK                           | 62.MEC1633L(2/3)          | 97.BLANK                        |
| 28.BLANK                           | 63.MEC1633L(3/3)          | 98.LOAD SW WWAN & WLAN          |
| 29.BLANK                           | 64.KEYBOARD CONNECTOR     | 99.PTH FOR SCREW HOLES          |
| 30.BLANK                           | 65.TOUCH PAD CONNECTOR    | 100.3rd USB                     |
| 31.BLANK                           | 66.BLANK                  |                                 |
| 32.BLANK                           | 67.FAN CONNECTOR          |                                 |
| 33.BLANK                           | 68.G-SNESOR               |                                 |
| 34.BLANK                           | 69.TPM                    |                                 |
| 35.BLANK                           | 70.EEPROM/SMBUS SW        |                                 |

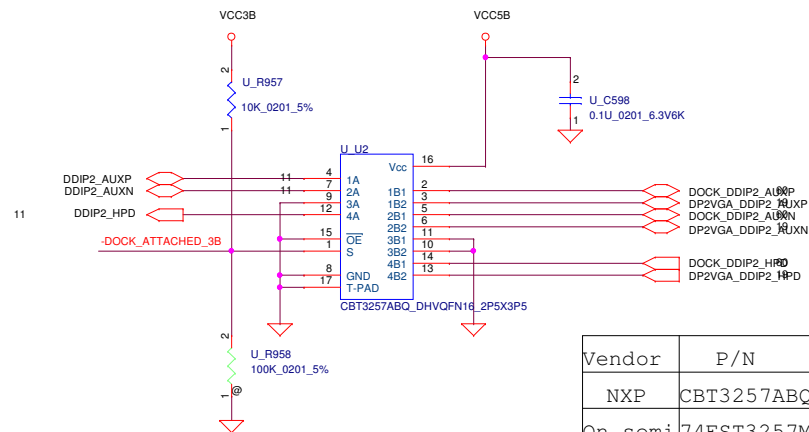
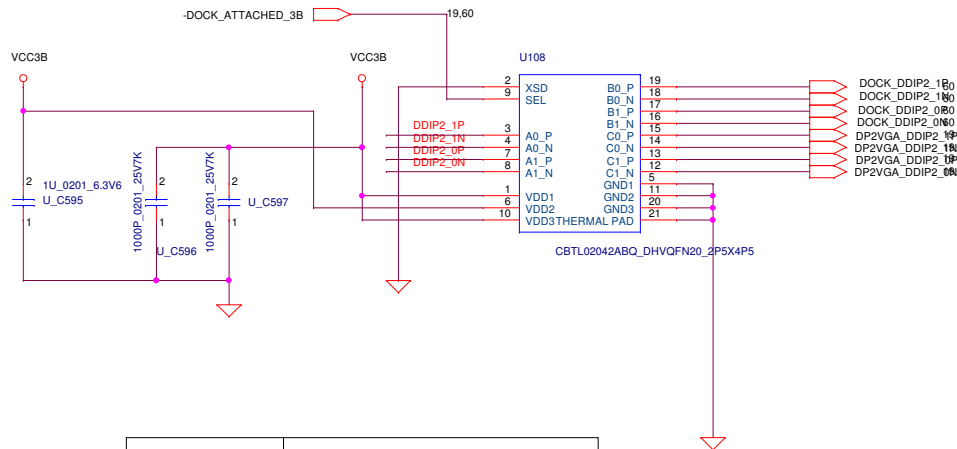
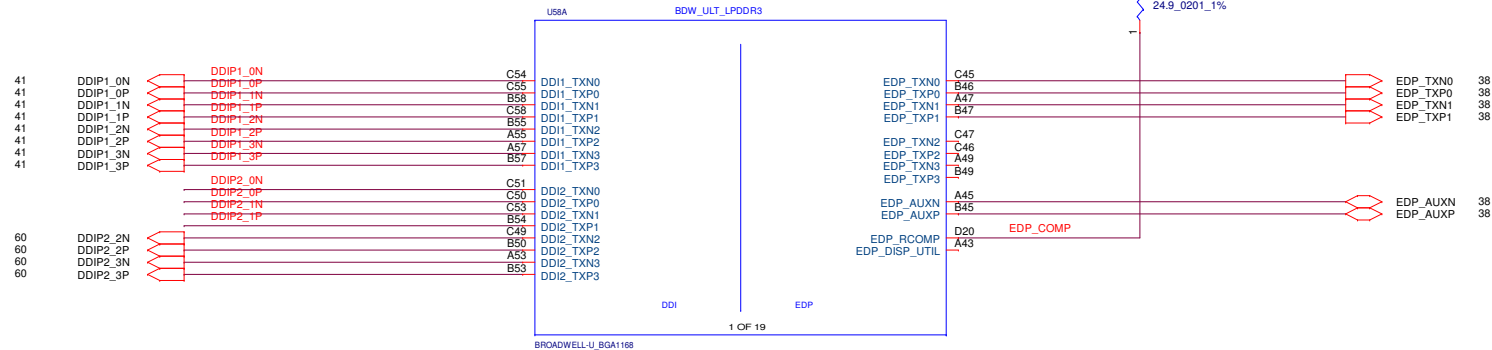


EC Modify History

Date	EC version	File name
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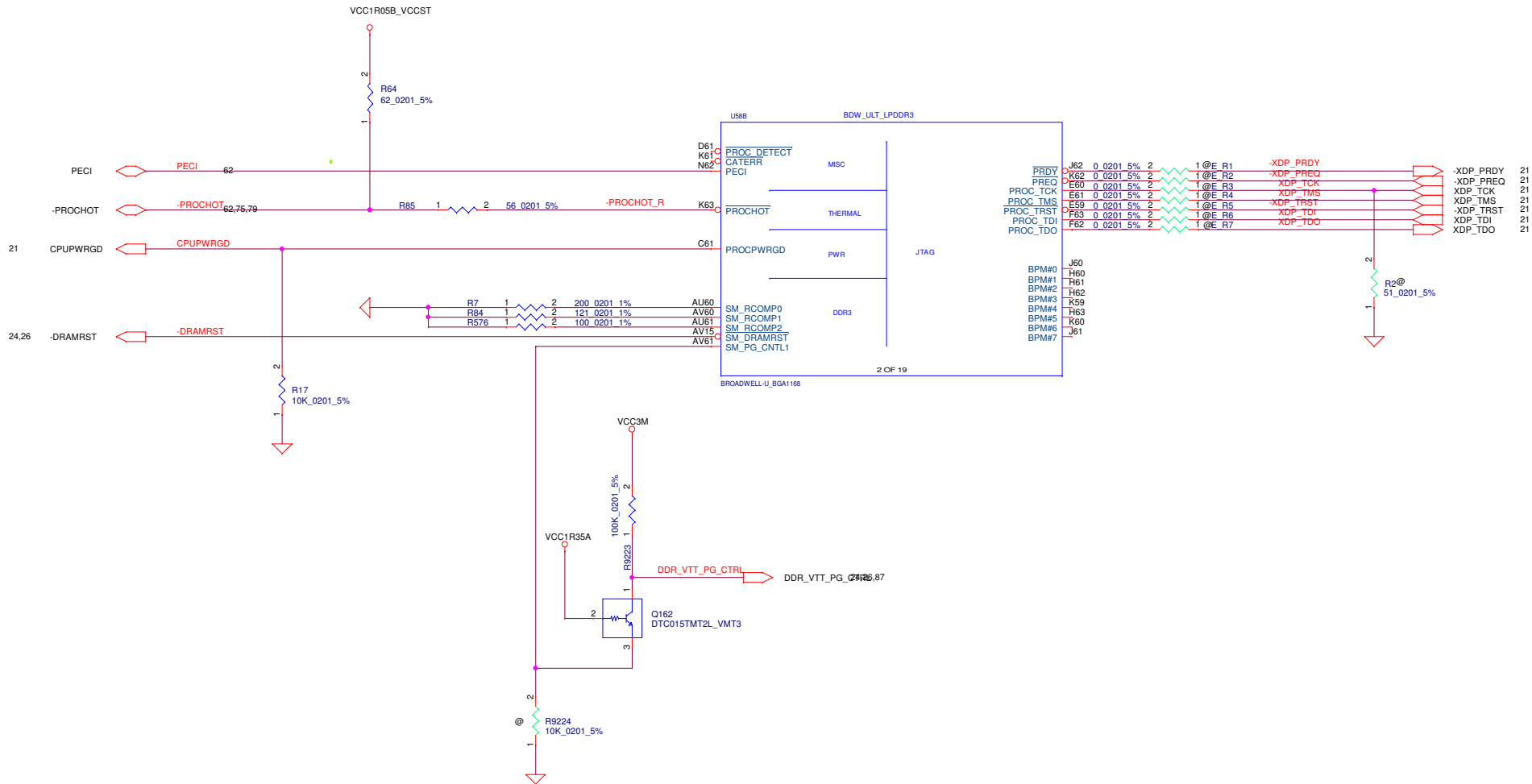




Vendor	P/N
Pericom	PI3PCIE3212
NXP	CBTL02042ABQ

Vendor	P/N
NXP	CBT3257ABQ
On-semi	74FST3257MNTWG

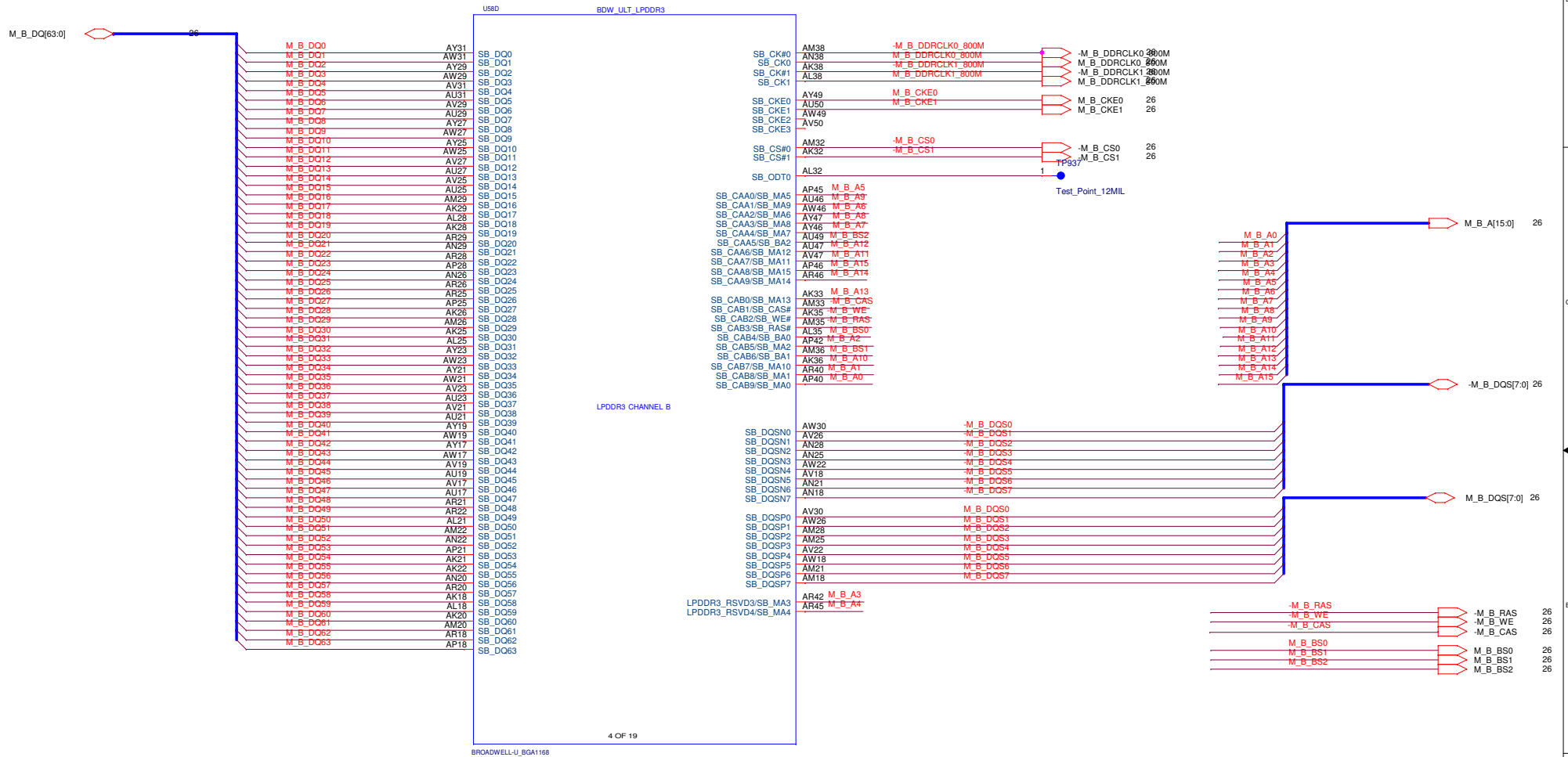







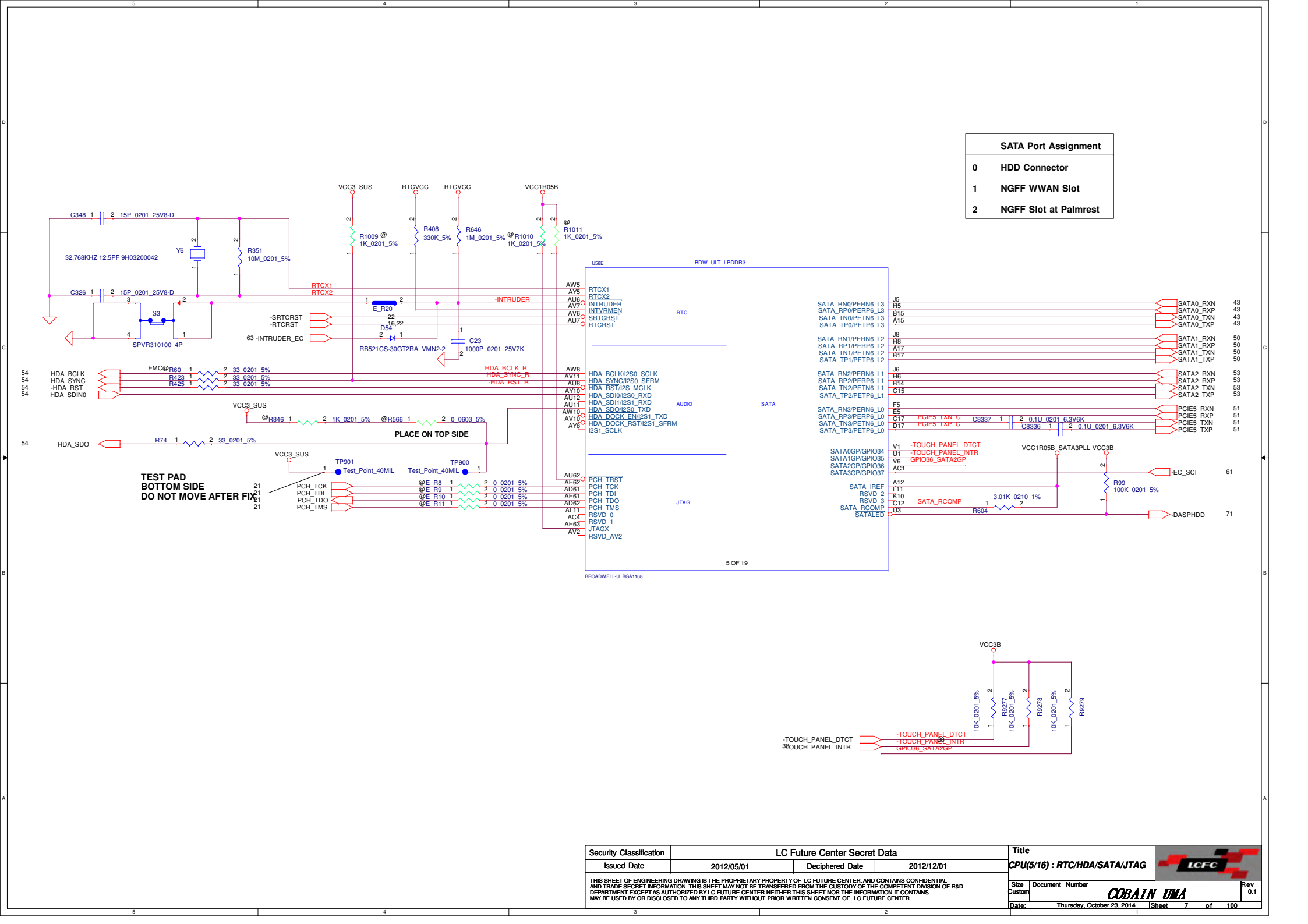




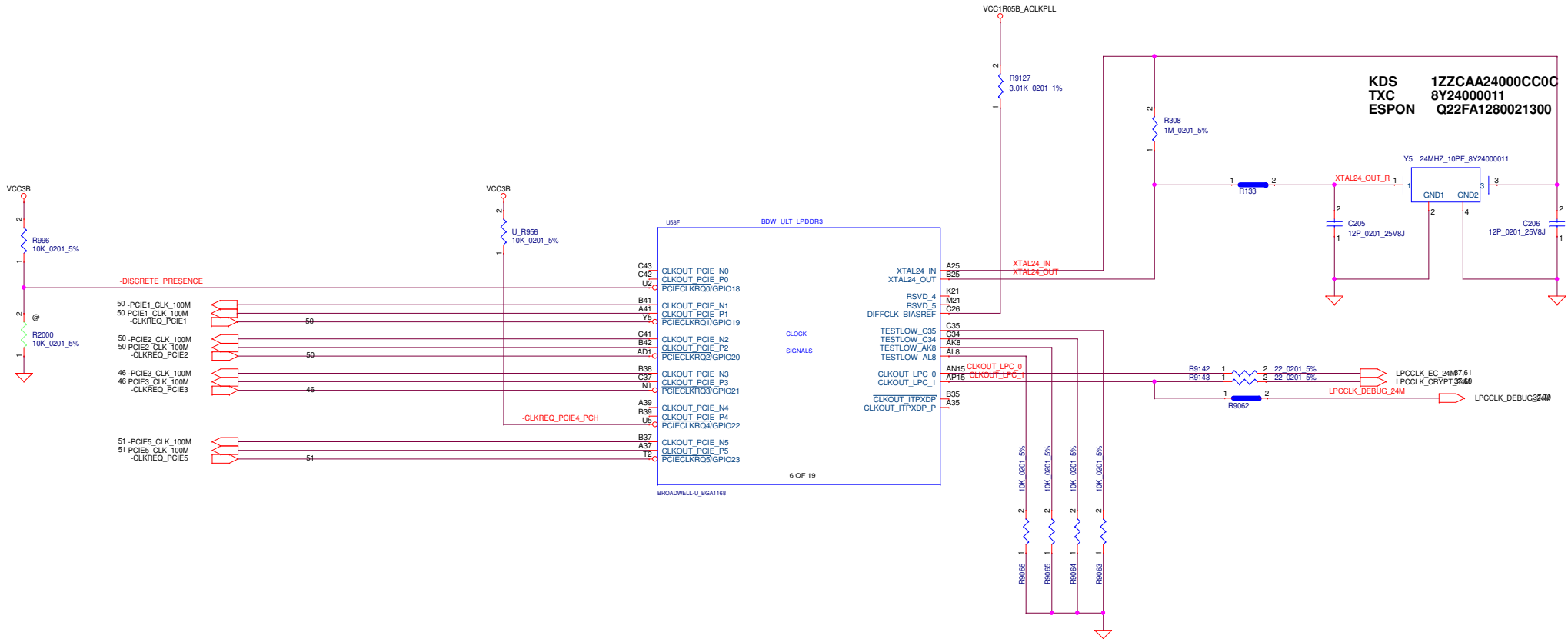


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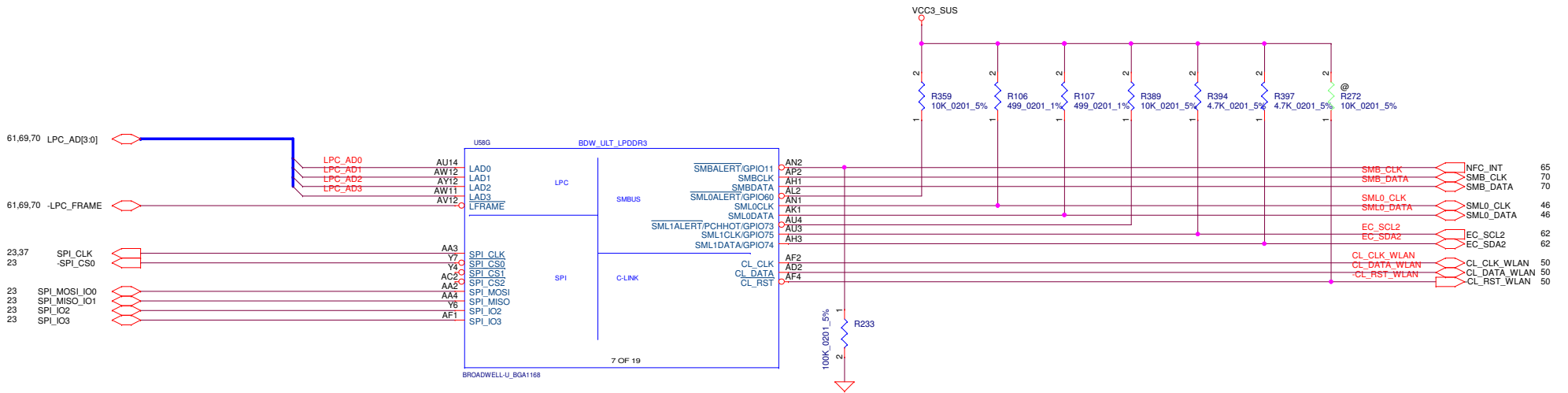




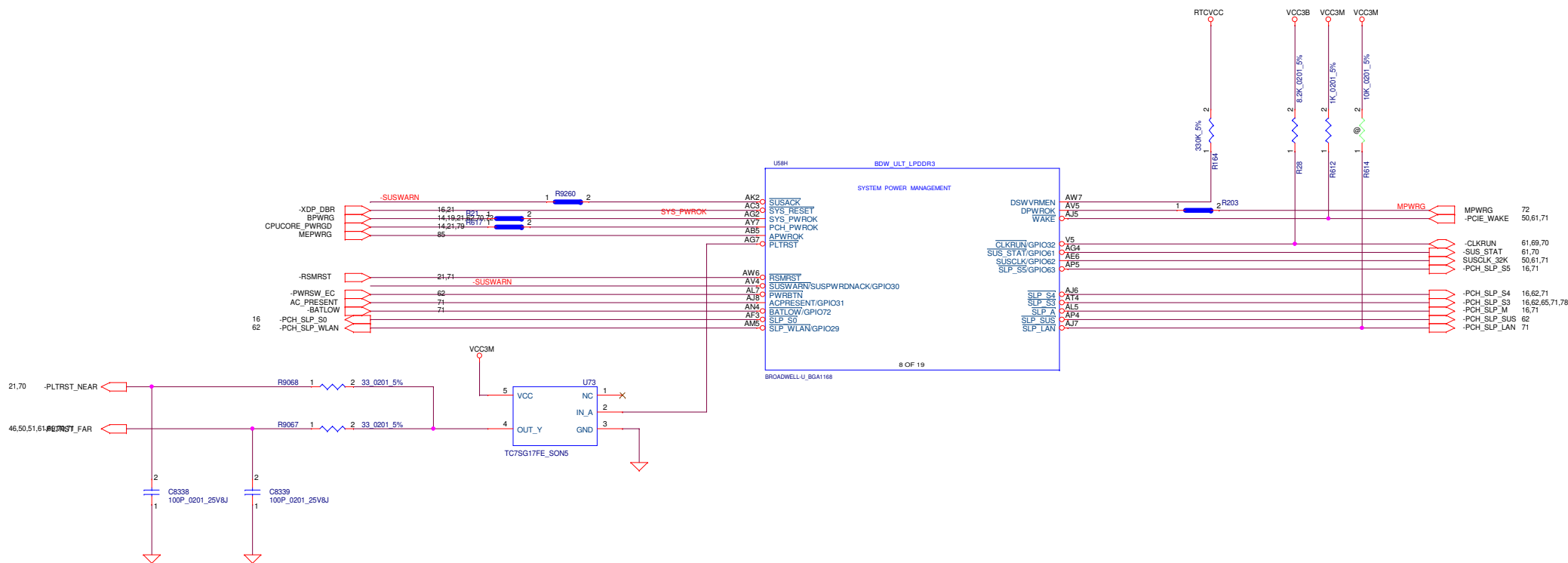


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TABLE

**CFG2 : PEG Static Lane Reversal**

1 : Normal Operation  
0 : Lane Reversal

**CFG4 : Display Port Presence**

1 : Disabled  
0 : Enabled

**CFG[6:5] : PEG Bifurcation**

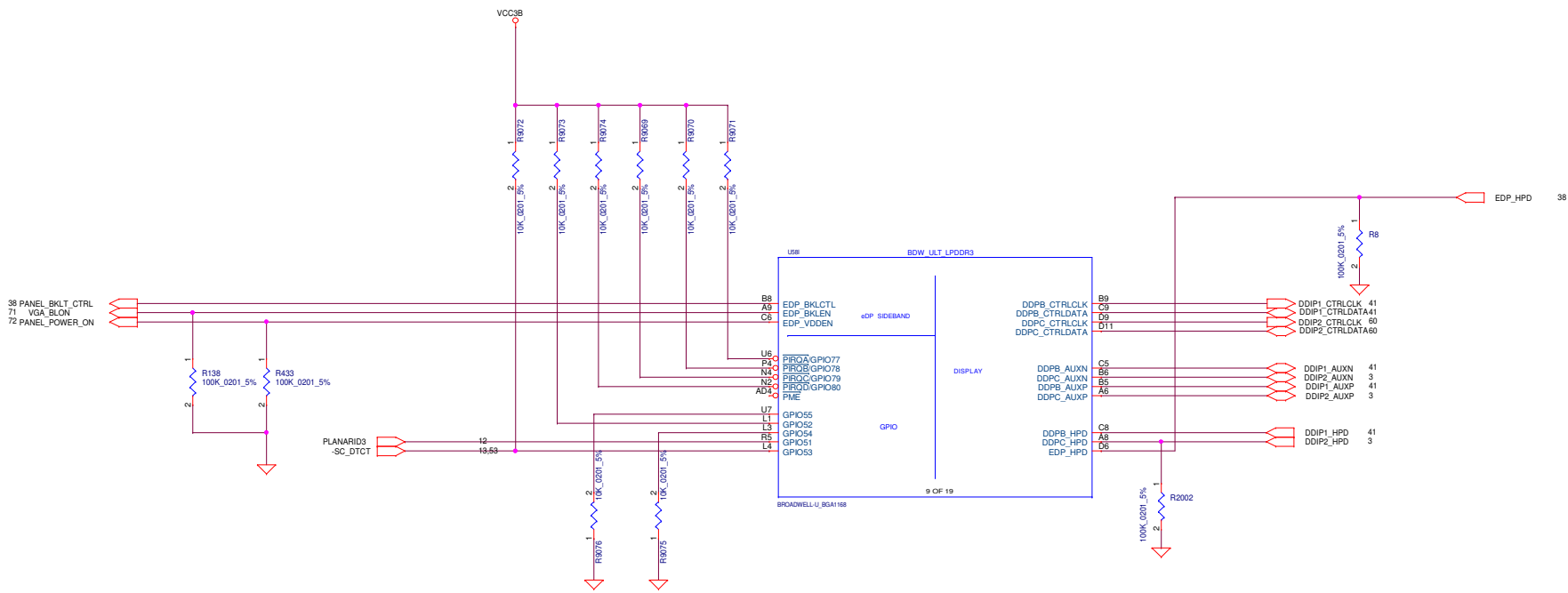
11 : Func 1 Disabled, Func 2 Disabled (x16,---,---)  
10 : Func 1 Enabled, Func 2 Disabled (x8,x8,---)  
01 : Func 1 Disabled, Func 2 Enabled  
00 : Func 1 Enabled, Func 2 Enabled (x8,x4,x4)

**CFG7 : PEG Defer Training**

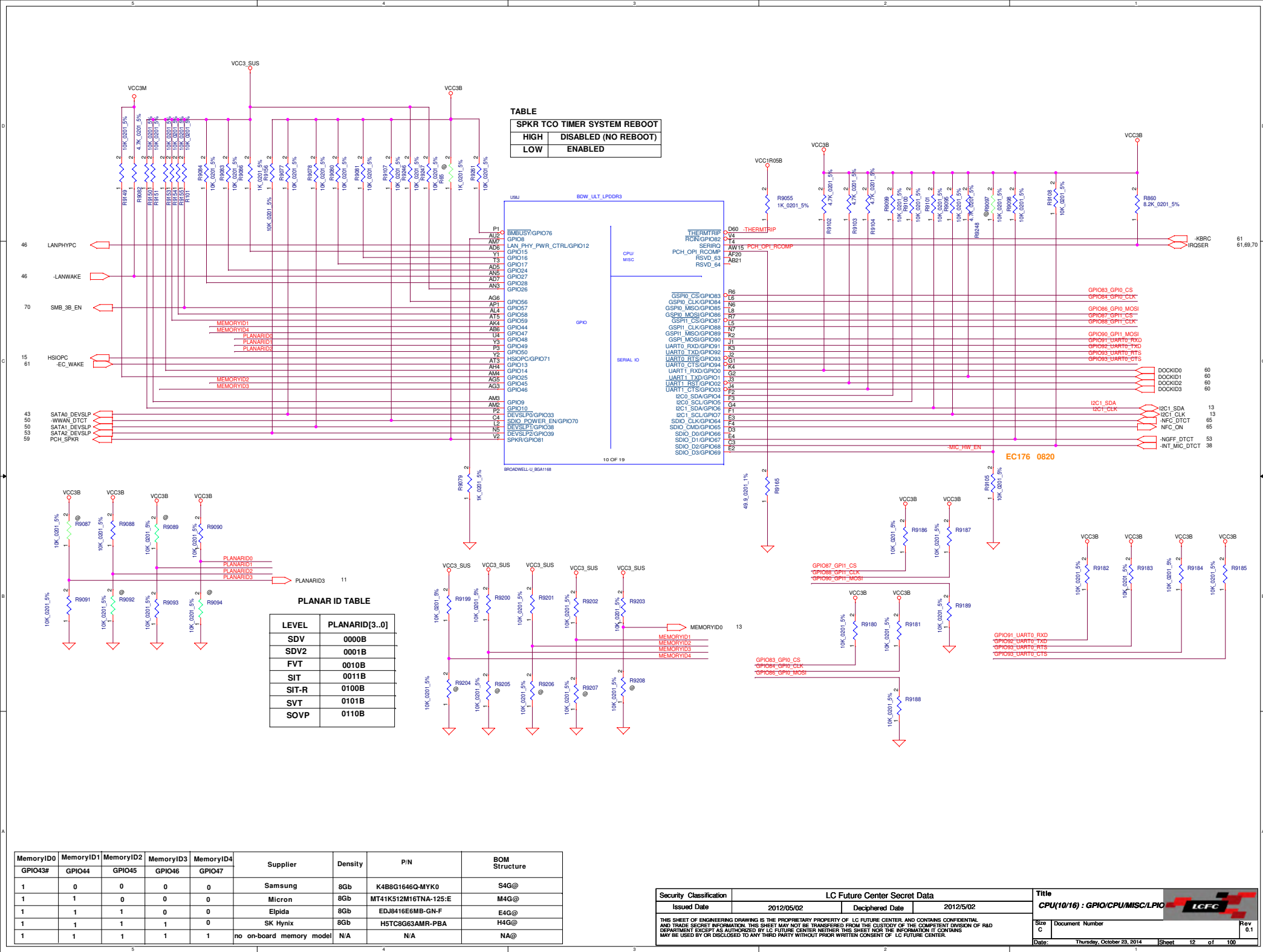
1 : PEG Train Immediately Following XXRESETB Deassertion  
0 : PEG Wait for BIOS for Training

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Issued Date	2012/05/01	Deciphered Date	2012/12/01	<b>CPU(8/16) : SYSTEM PM</b>
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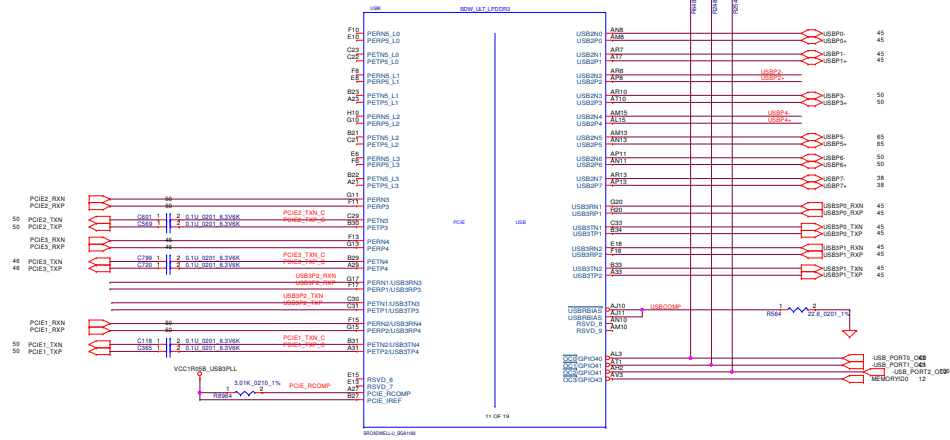
MemoryID0	MemoryID1	MemoryID2	MemoryID3	MemoryID4	Supplier	Density	P/N	BOM Structure
GPIO43#	GPIO44	GPIO45	GPIO46	GPIO47				
1	0	0	0	0	Samsung	8Gb	K4B8G1646Q-MYK0	S4G@
1	1	0	0	0	Micron	8Gb	MT41K512M16TNA-125:E	M4G@
1	1	1	0	0	Elpida	8Gb	EDJ8416E6MB-GN-F	E4G@
1	1	1	1	0	SK Hynix	8Gb	H5TC8G63AMR-PBA	H4G@
1	1	1	1	1	no on-board memory model	N/A	N/A	NA@

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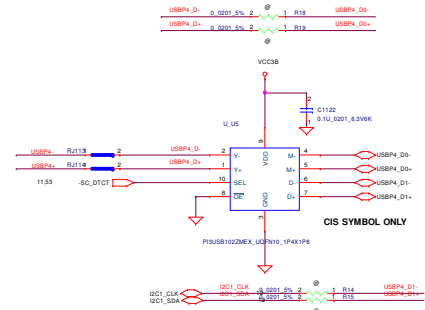
Flexible I/O Configuration			
I/O	High Speed Signals	Configuration	Net Name
Port 1	USB3 1	USB3 2	USB3P0
Port 2	USB3 2	USB3 2	USB3P1
Port 3	PCIe 1/USB3 3	USB3 3	USB3P2
Port 4	PCIe 2/USB3 4	PCIe 2	PCIe1
Port 5	PCIe 3	PCIe 3	PCIe2
Port 6	PCIe 4	PCIe 4	PCIe3
Port 7	PCIe 5 L0	PCIe 5 L0	PCIe4_0
Port 8	PCIe 5 L1	PCIe 5 L1	PCIe4_1
Port 9	PCIe 5 L2	PCIe 5 L2	PCIe4_2
Port 10	PCIe 5 L3	PCIe 5 L3	PCIe4_3
Port 11	PCIe 6 L0	PCIe 6 L0	PCIe5
Port 12	SATA 2/PCIe 6 L1	SATA 2	SATA2
Port 13	SATA 1/PCIe 6 L2	SATA 1	SATA1
Port 14	SATA 0/PCIe 6 L3	SATA 0	SATA0

PCIe Port Assignment	
1	NGFF WLAN Slot Port1
2	NGFF WLAN Slot Port0
3	GbE PHY
4 (x4)	Reserve
5 (x1)	Media Card Controller



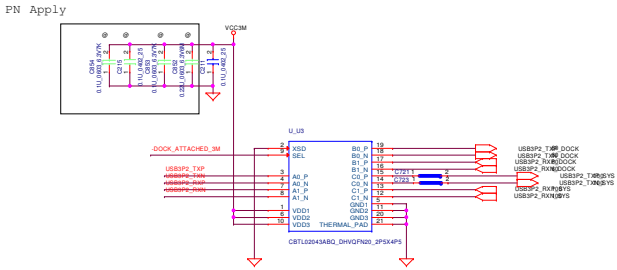
USB Port Assignment	
0	USB 3.0 System Port (AOU)
1	USB 3.0 System Port (Debug)
2	USB 3.0 Docking/3rd USB3.0 System Port
3	NGFF WWAN Slot
4	Smart Card Slot / Touch Panel
5	Fingerprint Reader
6	NGFF WLAN Slot
7	USB Camera

USB 3.0 Port Assignment	
0	USB 3.0 System Port (AOU)
1	USB 3.0 System Port (Debug)
2	USB 3.0 Docking



Device Selection	
0	Smart Card Slot
1	Touch Panel

Vendor	P/N
Pericom	PI3USB102ZME
NXP	NX3DV42GU



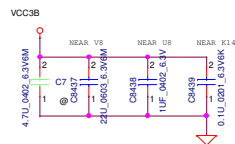
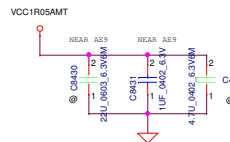
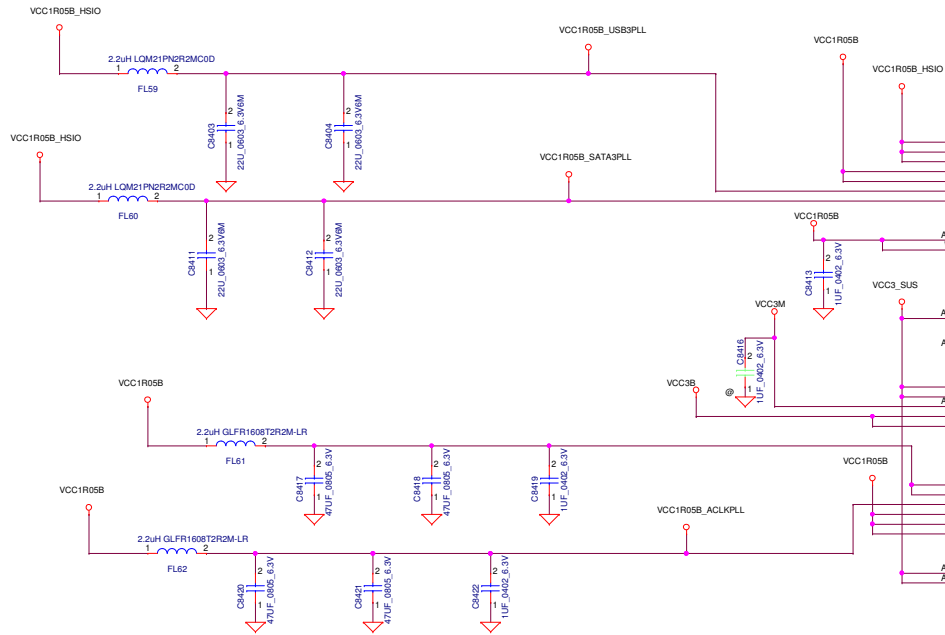
Vendor	P/N
Pericom	PI3PCIE3212
NXP	CBTL02043ABQ


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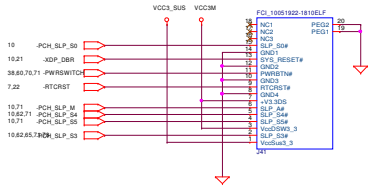




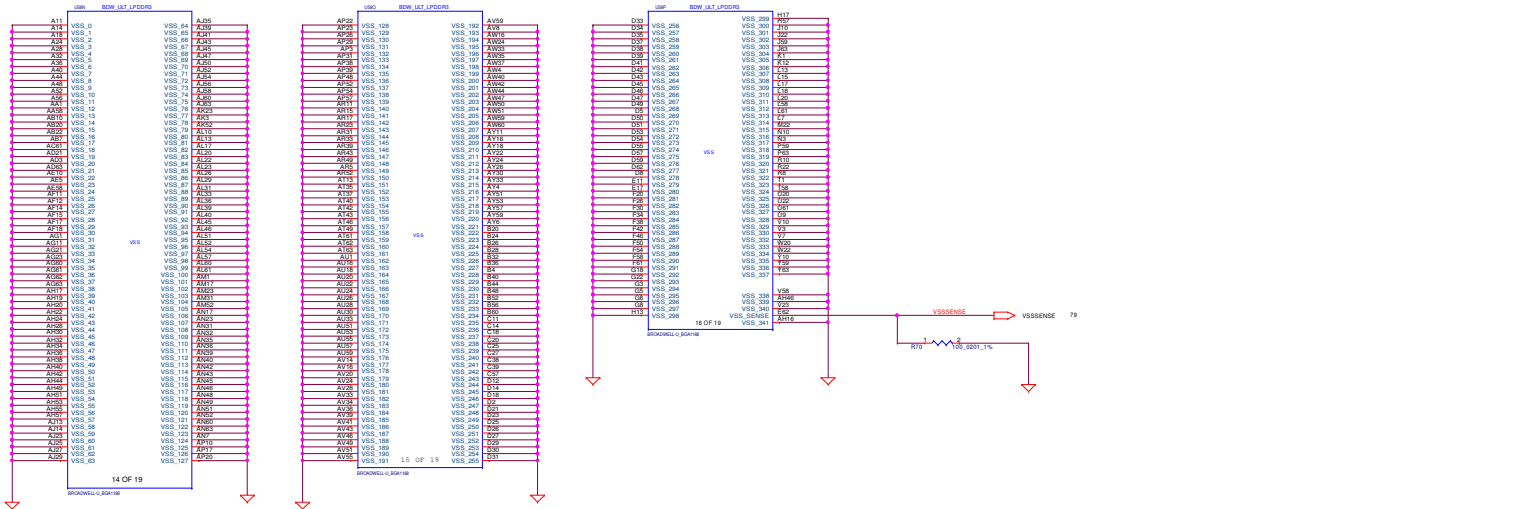
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APS/PETS Interface



CONNETER	PLANAR ONLY	BOX
J41	ASM	NO ASM





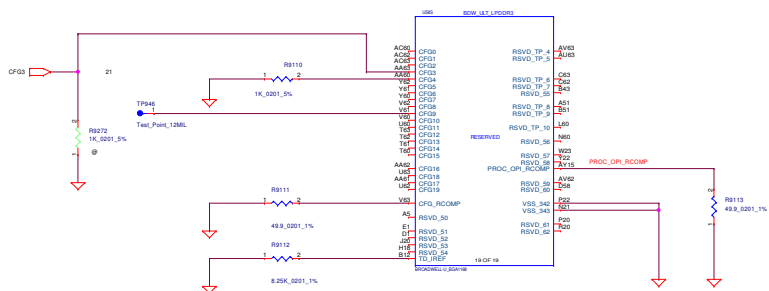




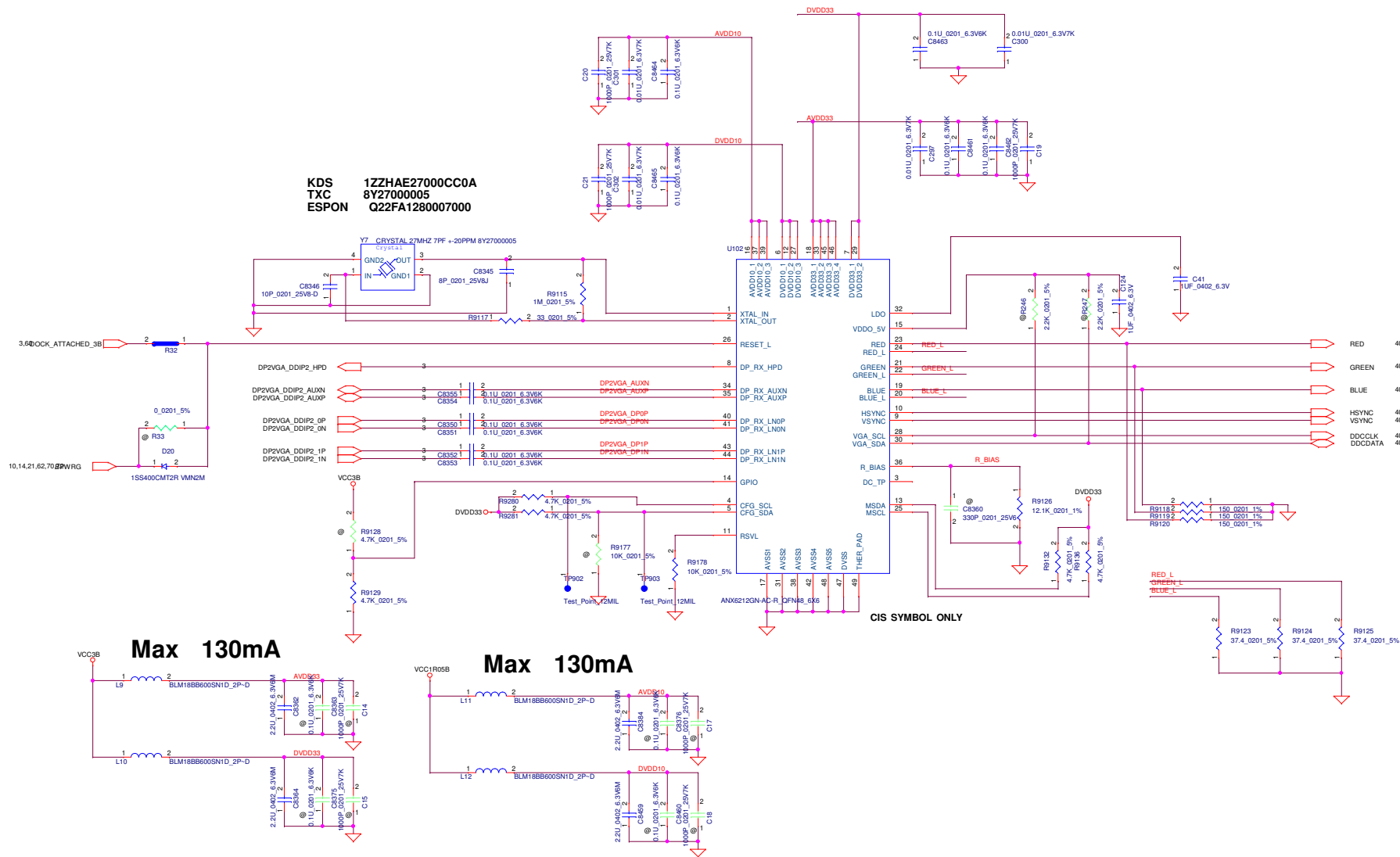
TABLE

CFG4: Display Port Presence

1: Disabled
0: Enabled









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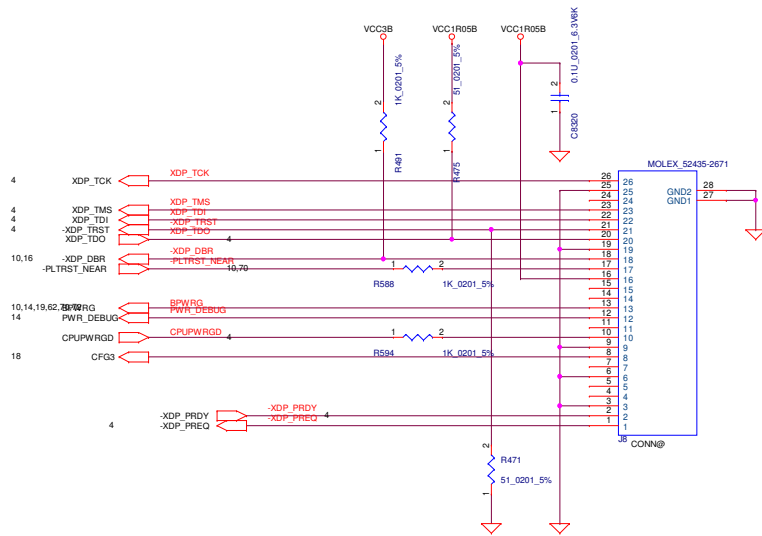


TABLE CPU ITP DEBUG PORT

SIGNAL	REF DES	PLANER ONLY	DISABLE
TDO	R475	ASM	ASM
TRST#	R471	ASM	ASM
DBRST#	R491	ASM	ASM
RESET#	R588	ASM	ASM
PWRGD	R594	ASM	ASM
CONNETER	J8	ASM	NO ASM

NOTE:APPLY EACH ACCORDING TO CONFIGURATION IN SDV

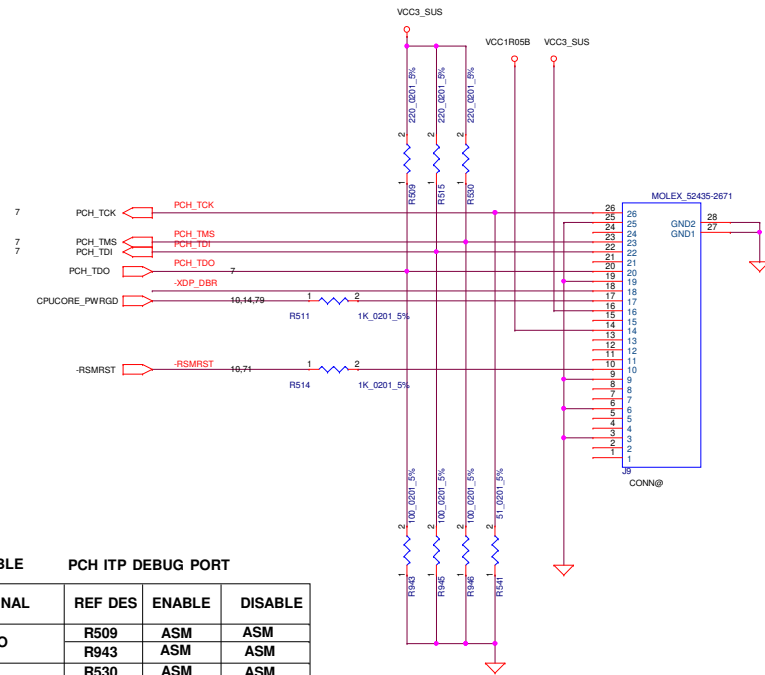
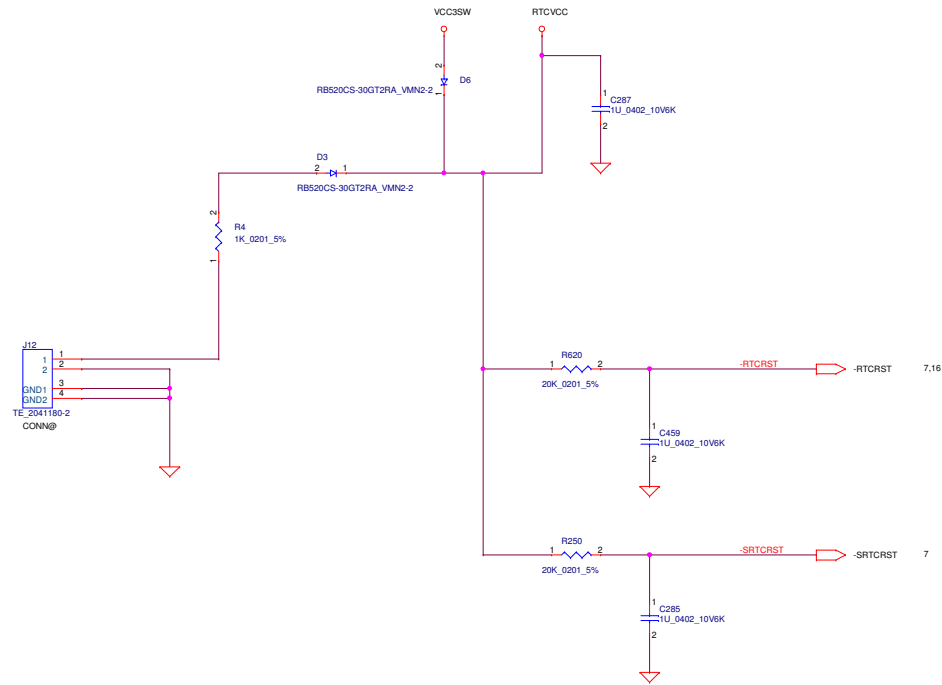



TABLE PCH ITP DEBUG PORT

SIGNAL	REF DES	ENABLE	DISABLE
TDO	R509	ASM	ASM
	R943	ASM	ASM
TMS	R530	ASM	ASM
	R946	ASM	ASM
TDI	R515	ASM	ASM
	R945	ASM	ASM
TCK	R541	ASM	ASM
CPUCORE_PWRGD	R511	ASM	ASM
-RSMRST	R514	ASM	ASM
CONNETER	J9	ASM	NO ASM

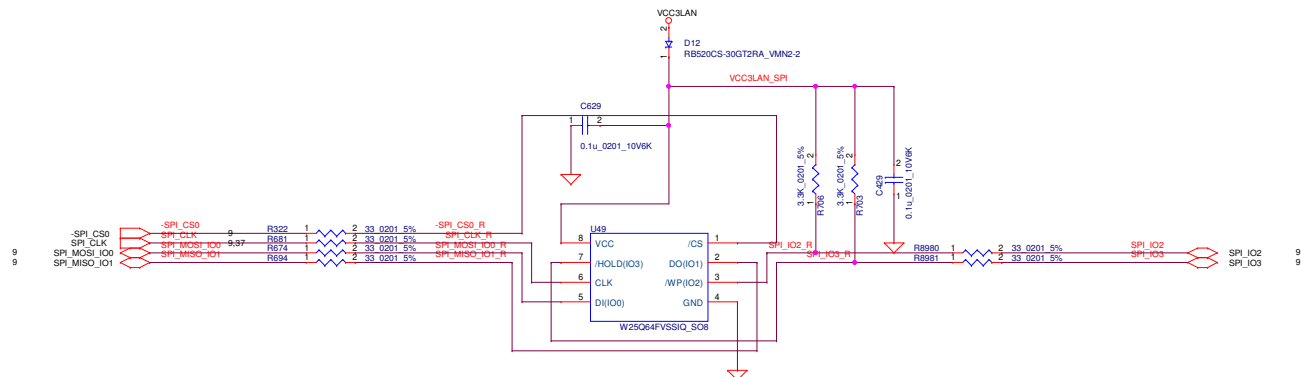
NOTE:APPLY EACH ACCORDING TO CONFIGURATION IN SDV





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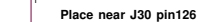
TABLE

SF100 PIN HEADER INTERFACE (TOP VIEW)					
1	VCC	D12.1	GND	GND	2
3	CS#	R322.2	R661.2	CLK	4
5	MISO	R694.2	R674.2	MOSI	6
7	(KEY)	N/A	N/A	(RESET)	8



U49 SPI ROM

vPro / non-vPro Model (16MB)	
WINBOND	W25Q128FVSIQ
MACRONIX	MX25L1287FM2-10G
MICRON	N25Q128A13ESECOP



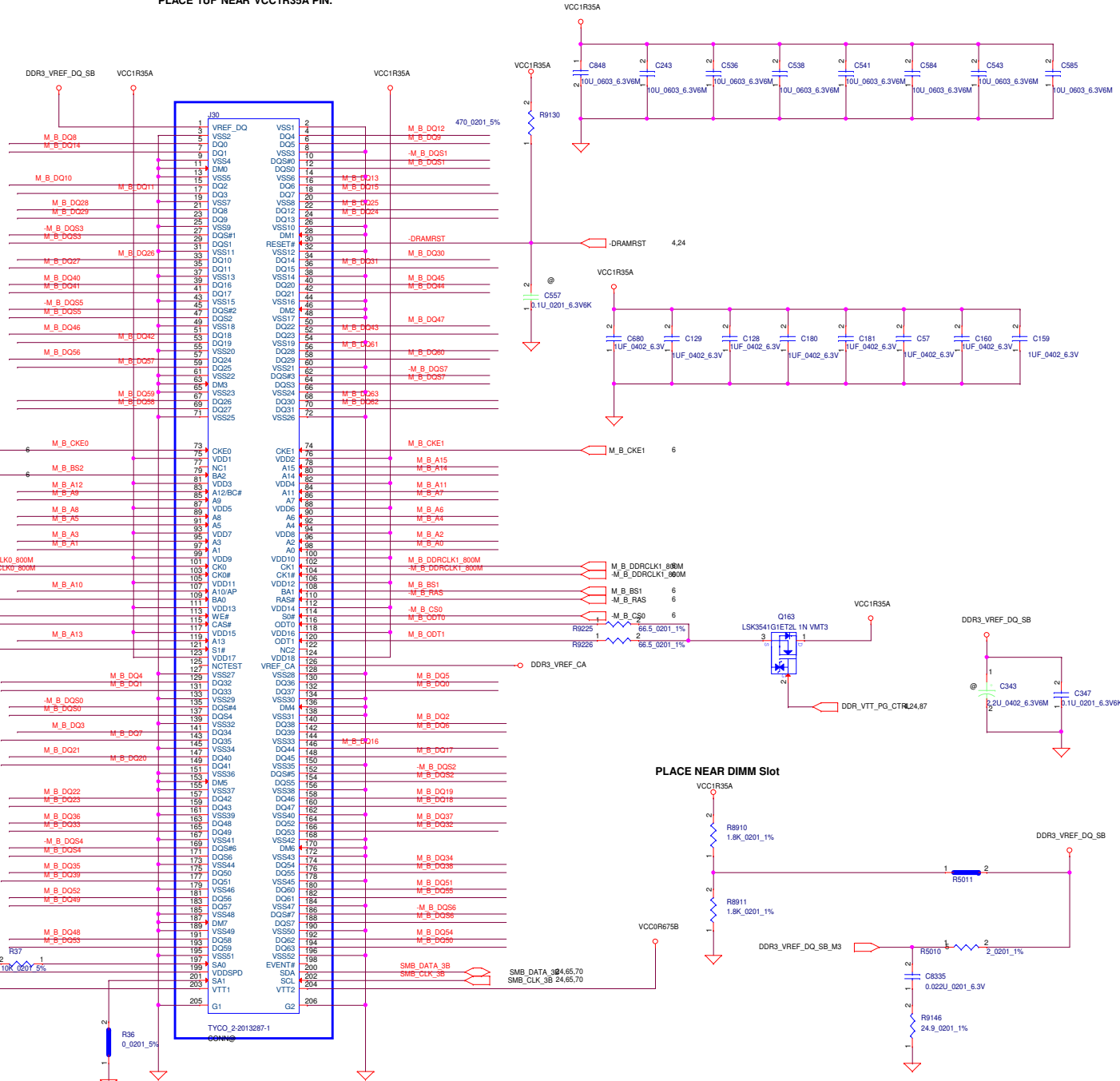
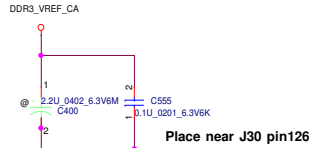
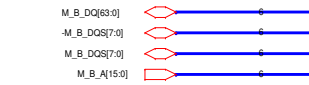




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PLACE 1UF NEAR VCC1R35A PIN.



PLACE NEAR DIMM Slot



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Size :	Document Number :	Rev : 0.1
Date: Thursday, October 23, 2014		Sheet : 35 of 100



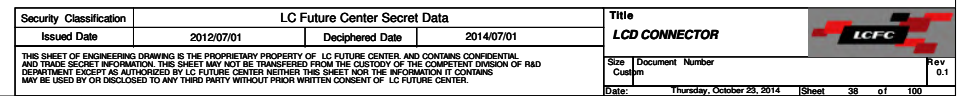
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Size :	Document Number :	Rev : 0.1
Date: Thursday, October 23, 2014		Sheet : 36 of 100








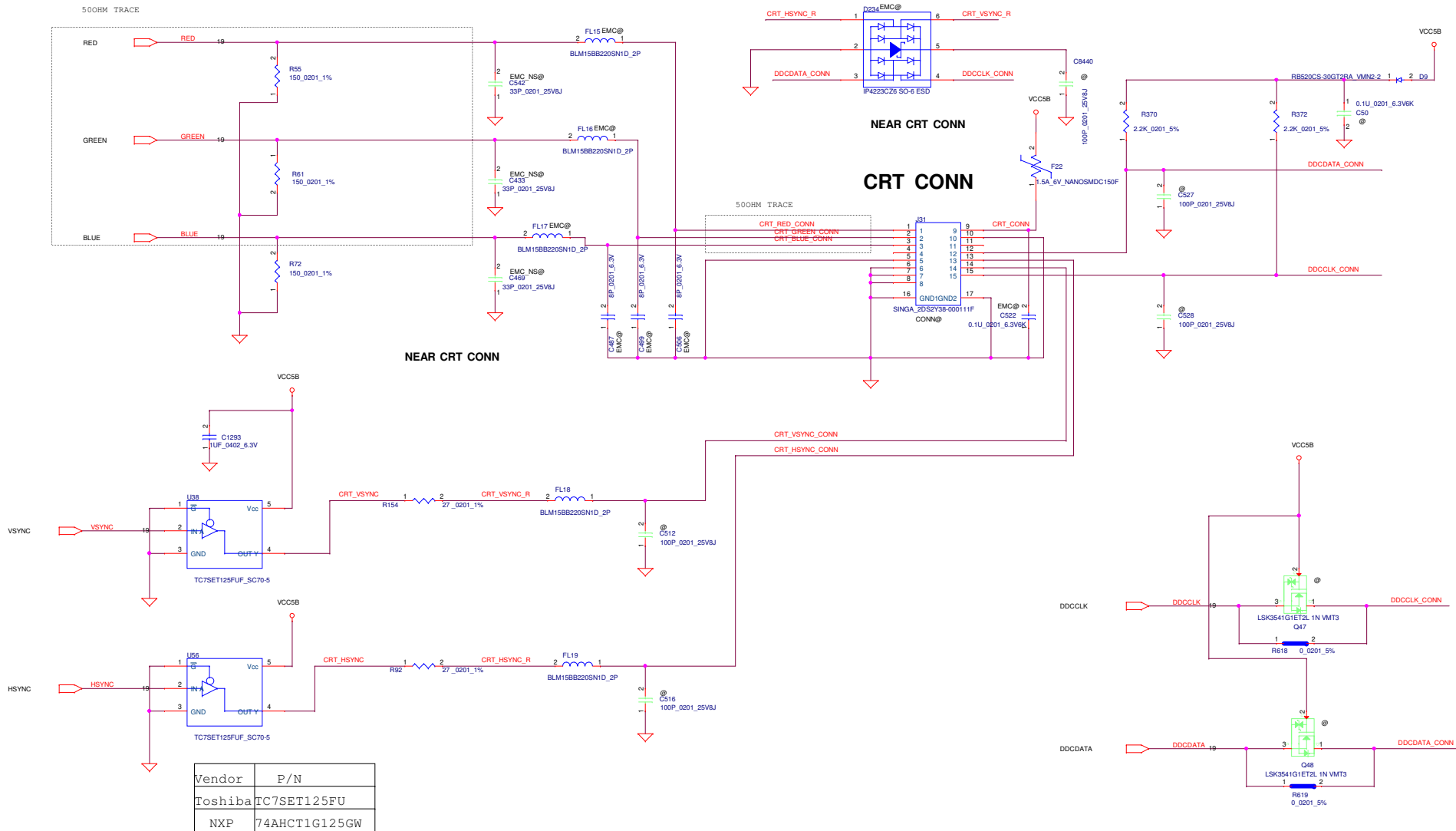




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Date: Thursday, October 23, 2014		Sheet : 39 of 100



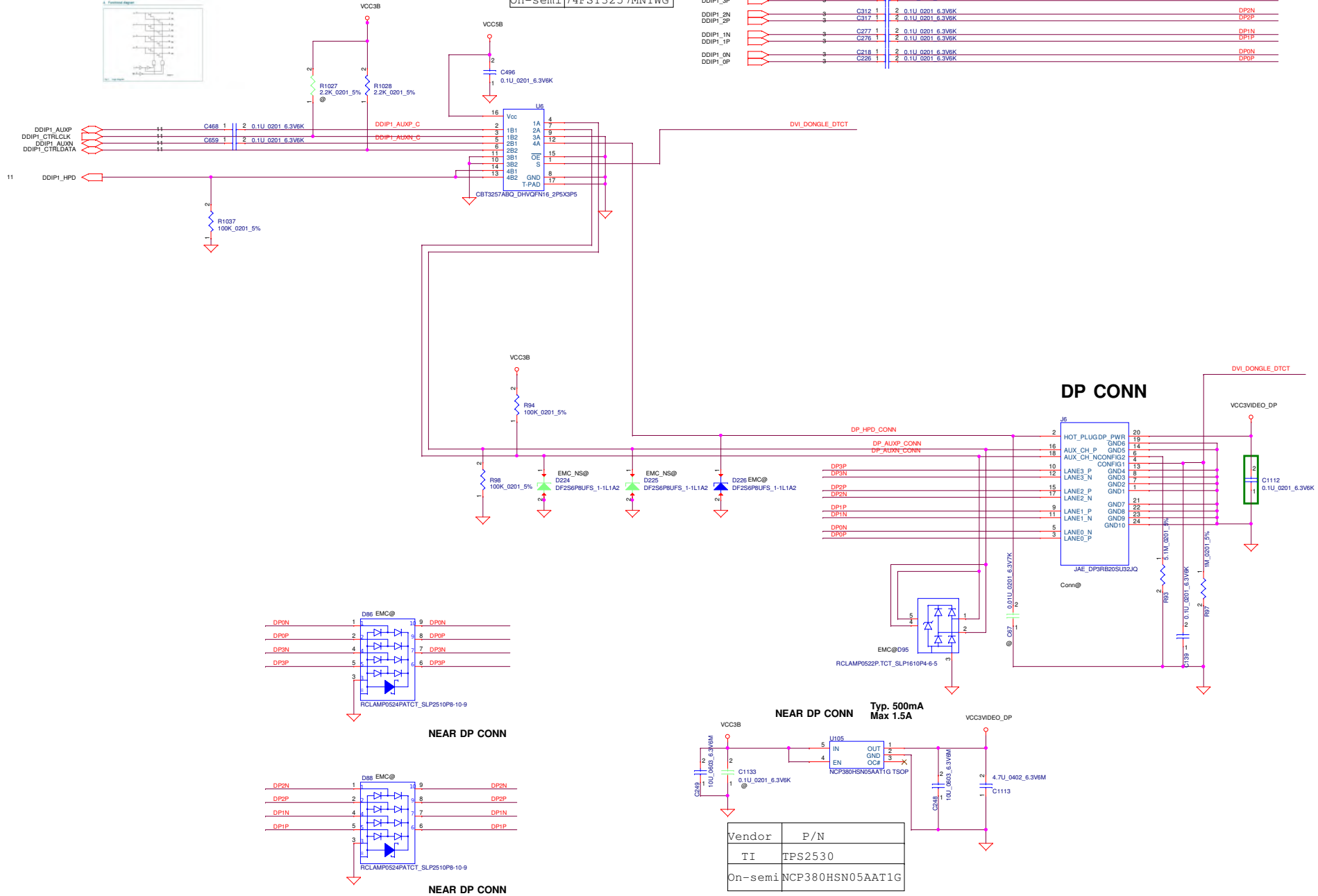




Vendor	P/N
NXP	CBT3257ABQ
On-semi	74FST3257MNTWG


# FOR SYSTEM DP NEAR DP CONN

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DDIP1_3P	3	C329	1	2	0.1U_0201_6.3V6K	DP3P
DDIP1_2N	3	C312	1	2	0.1U_0201_6.3V6K	DP2N
DDIP1_2P	3	C317	1	2	0.1U_0201_6.3V6K	DP2P
DDIP1_1N	3	C277	1	2	0.1U_0201_6.3V6K	DP1N
DDIP1_1P	3	C276	1	2	0.1U_0201_6.3V6K	DP1P
DDIP1_0N	3	C218	1	2	0.1U_0201_6.3V6K	DP0N
DDIP1_0P	3	C228	1	2	0.1U_0201_6.3V6K	DP0P

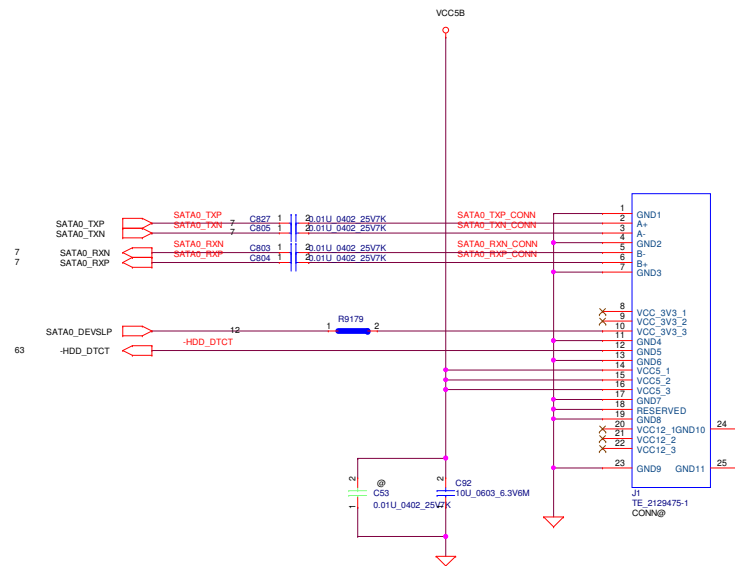




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Size: C	Document Number:	Rev: 0.1
Date: Thursday, October 23, 2014		Sheet: 42 of 100






Security Classification		LC Future Center Secret Data		Title	
Issued Date	2012/06/21	Deciphered Date	2012/06/21	SATA HDD CONN	
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				Size	Number
				Date:	Thursday, October 23, 2014
				Sheet	43 of 100





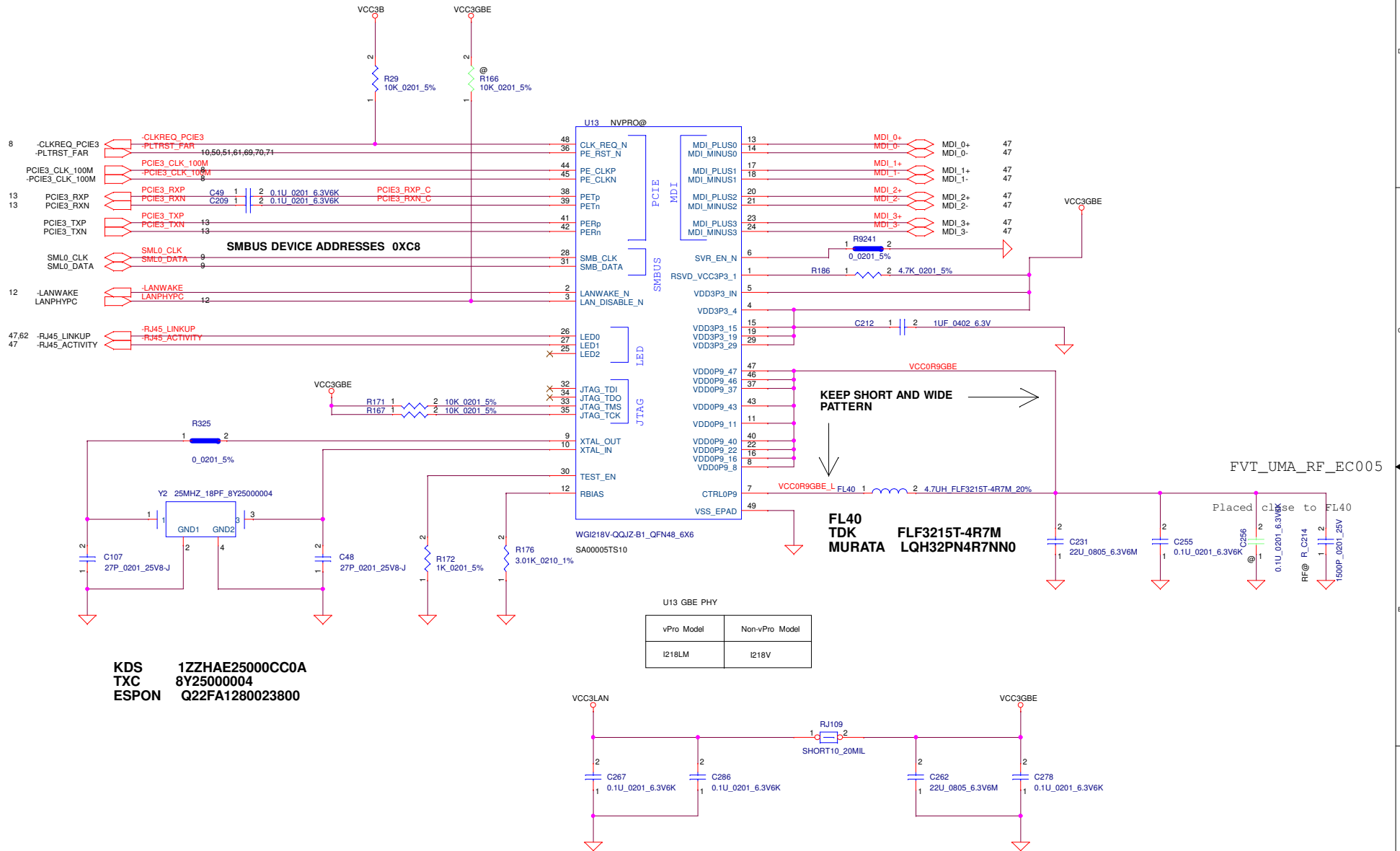
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Date: Thursday, October 23, 2014		Sheet : 44 of 100

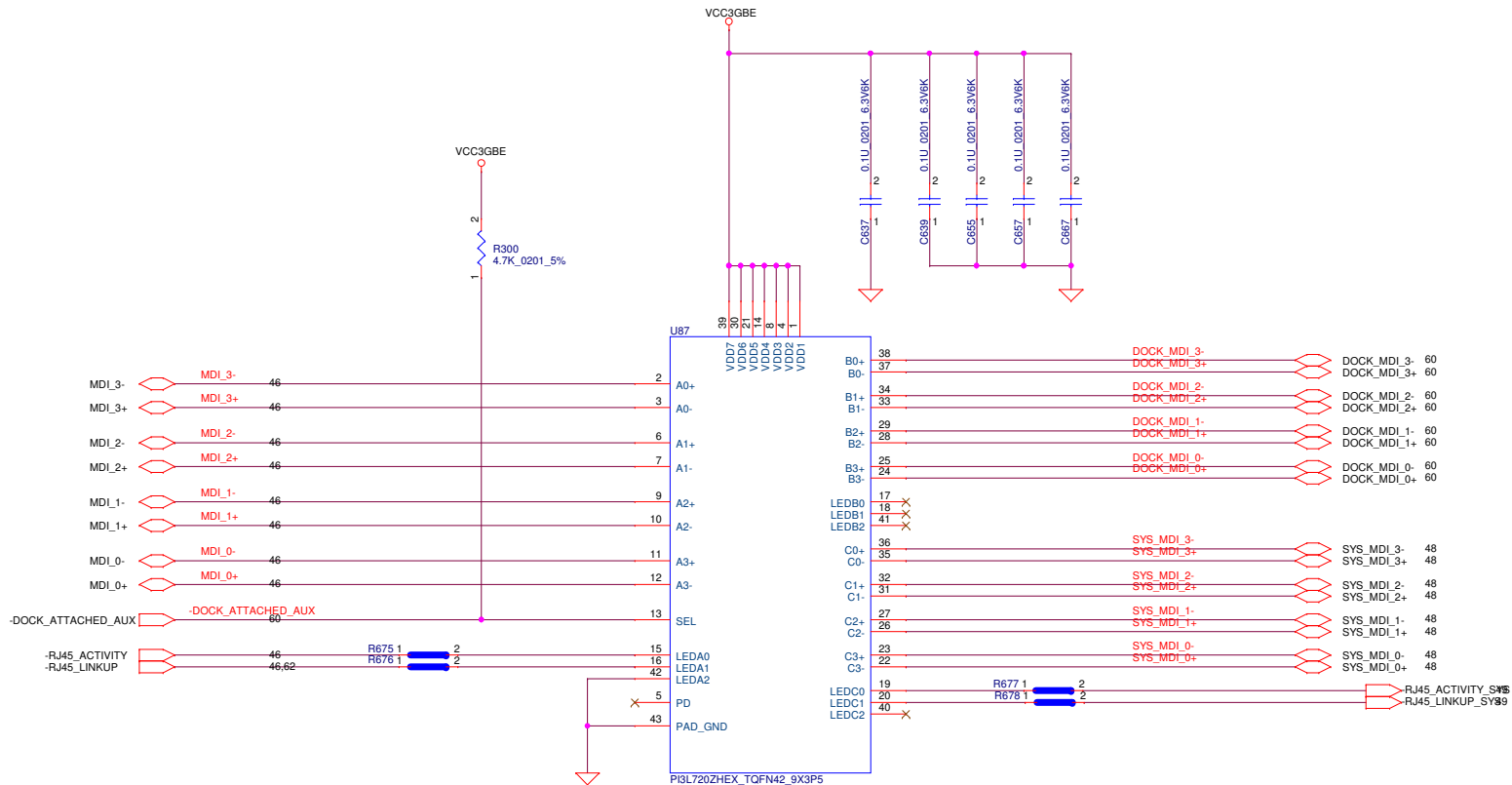










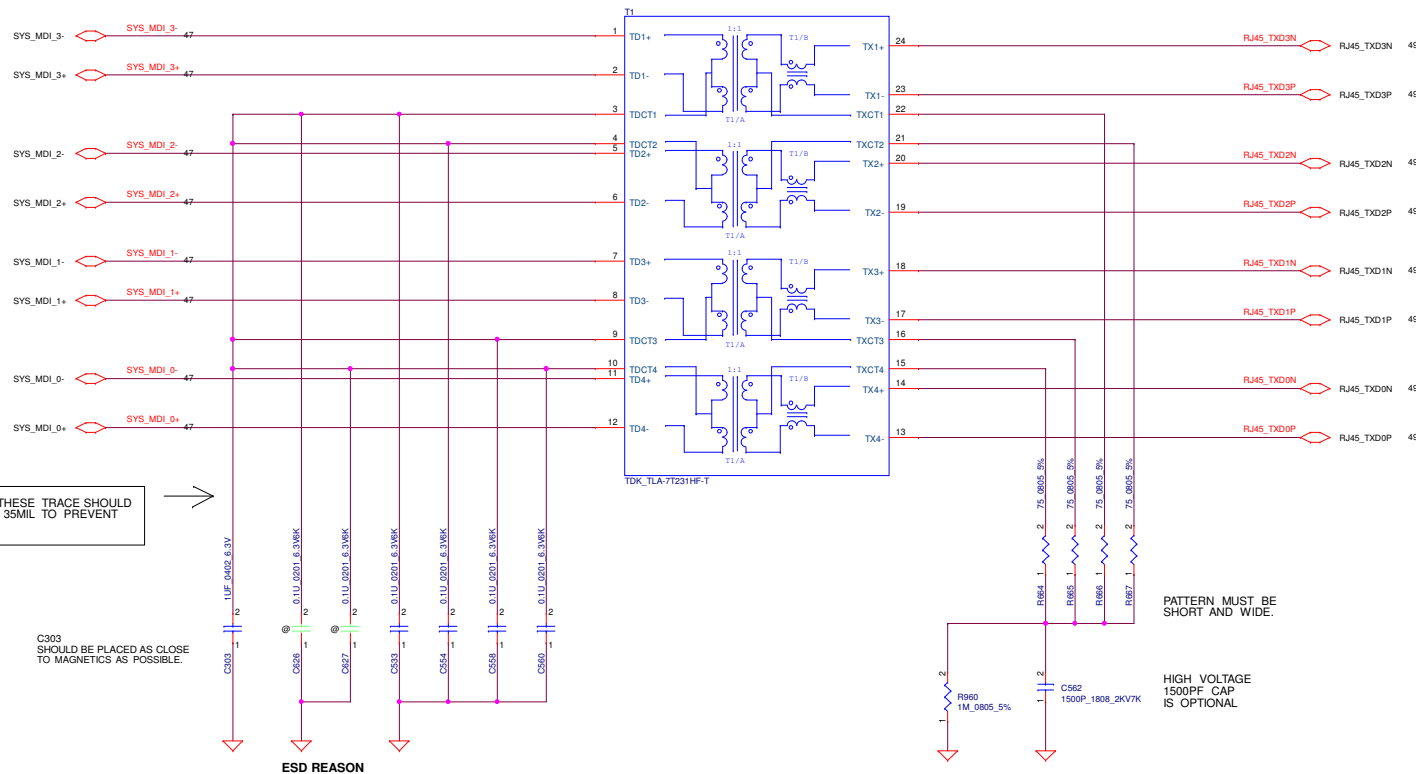


U87	
Vendor	P/N
Pericom ST micro Onsemi	PI3L720ZHE STMUX1800E NCN7201

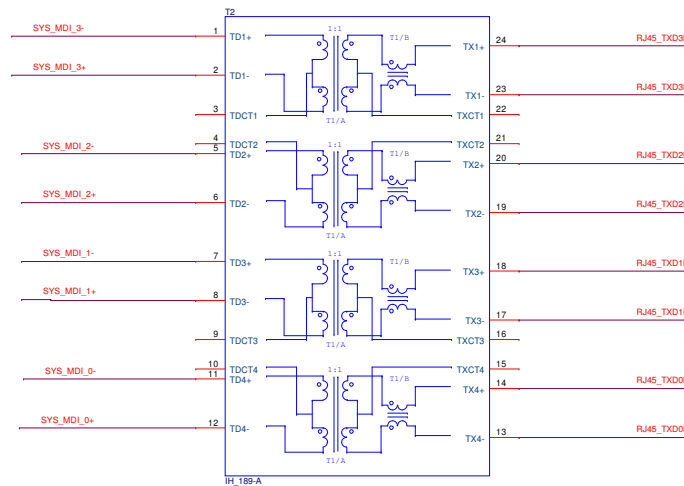
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Issued Date	2012/05/01	Deciphered Date	2012/12/01
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Title		LCFC	
GBE LAN SWITCH		COBAIN UMA	
Size	Document Number	Rev	0.1
Date:	Thursday, October 23, 2014	Sheet	47 of 100

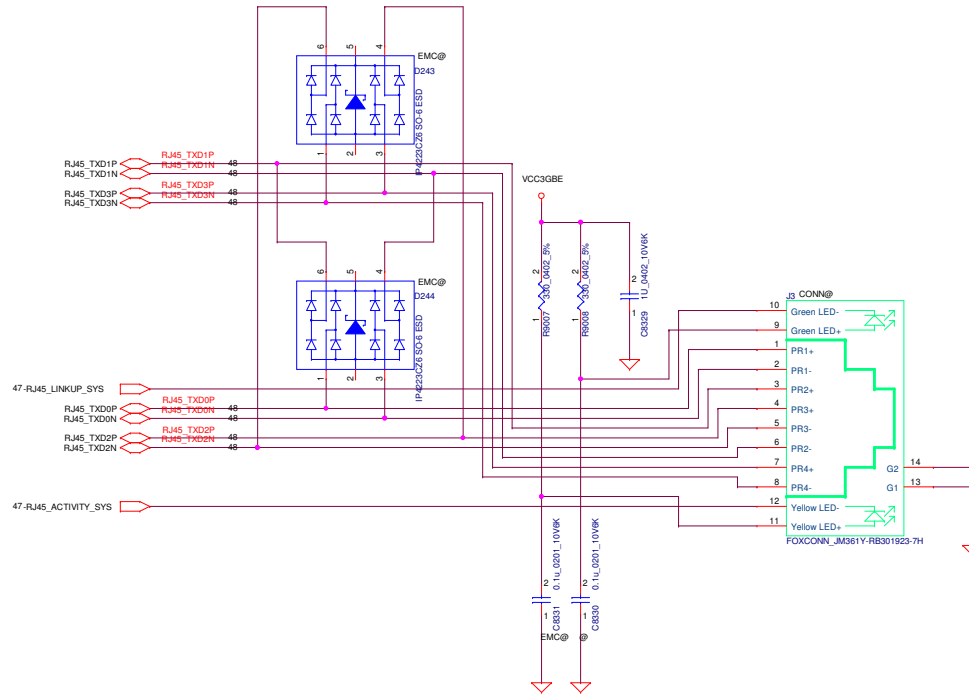




Vendor	P/N
TDK	TLA-7T231HF-T
Timag	IH-115-F
Bothhand	NA69LF
TDK	TLA-7T201HF-T





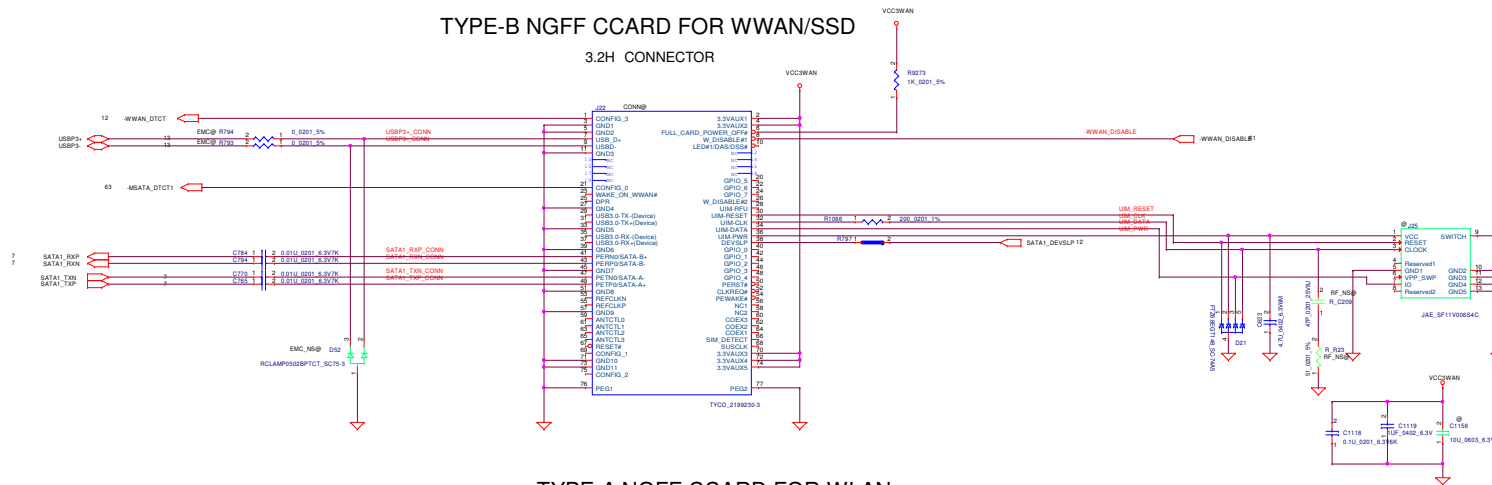


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Issued Date	2012/05/02	Deciphered Date	2012/5/02	RJ45 CONNECTOR	
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Size	Document Number	CORAIN IMA		Rev	0.1
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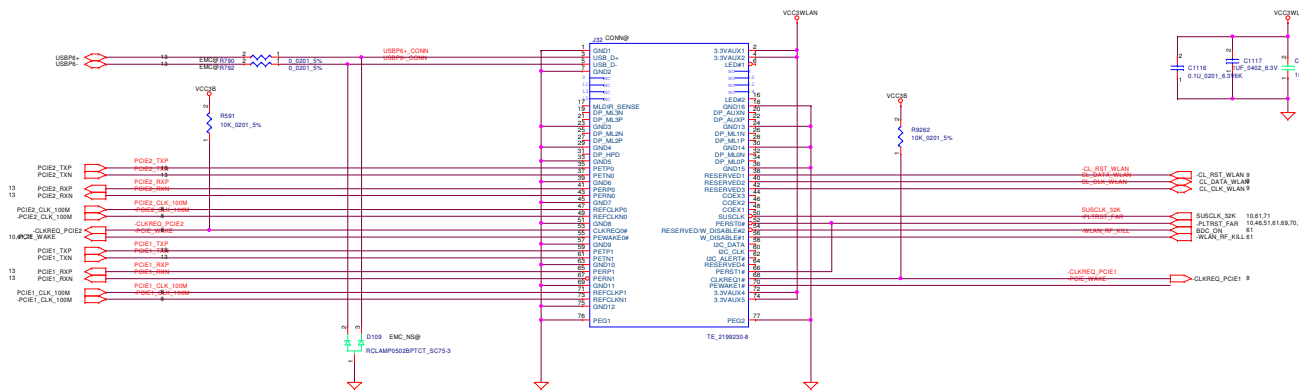
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3.2H CONNECTOR



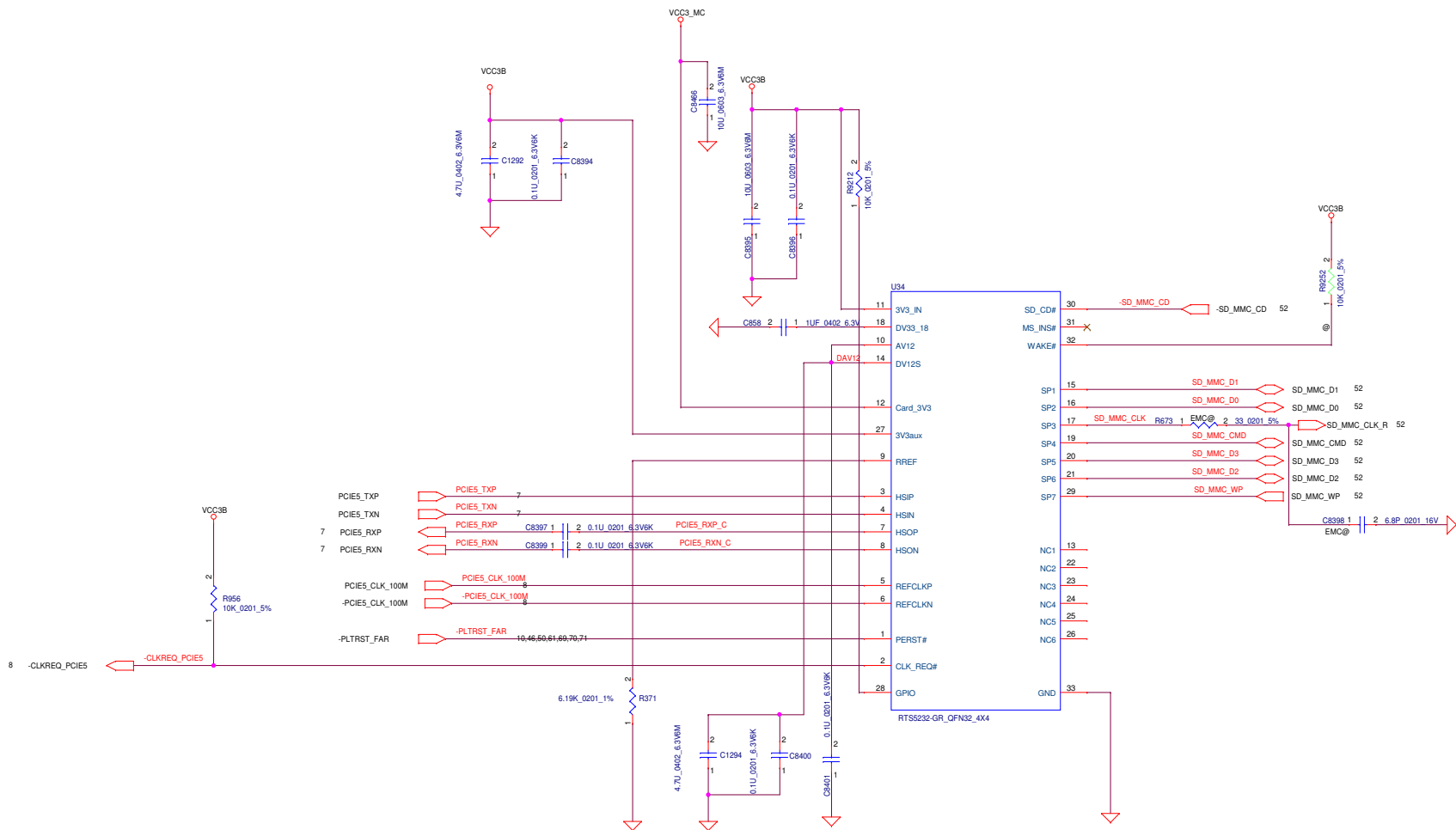
# TYPE-A NGFF CCARD FOR WLAN

3.2H CONNECTOR

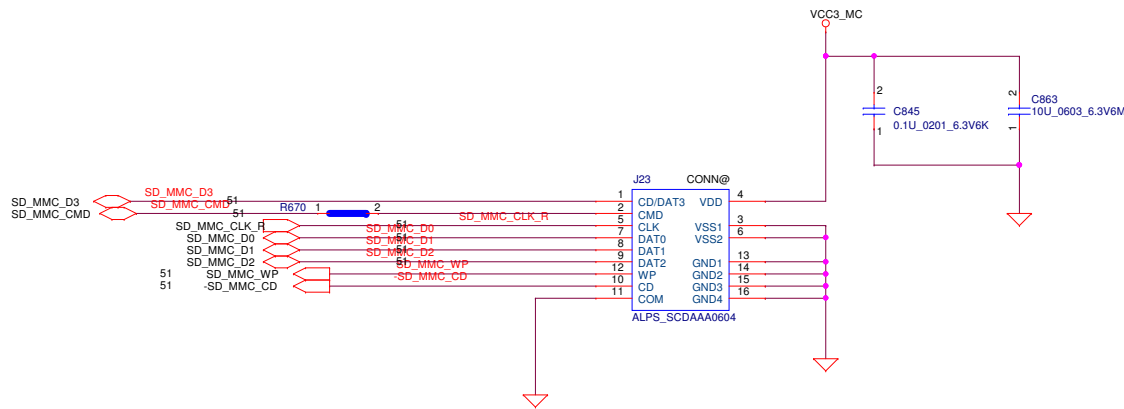


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Issued Date	2013/05/02	Designated Date	2013/05/02
PCIE MINI CARD SLOT			Rev. 0.1
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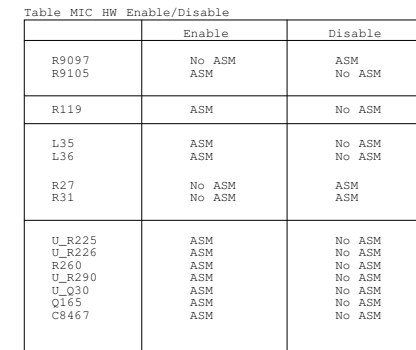






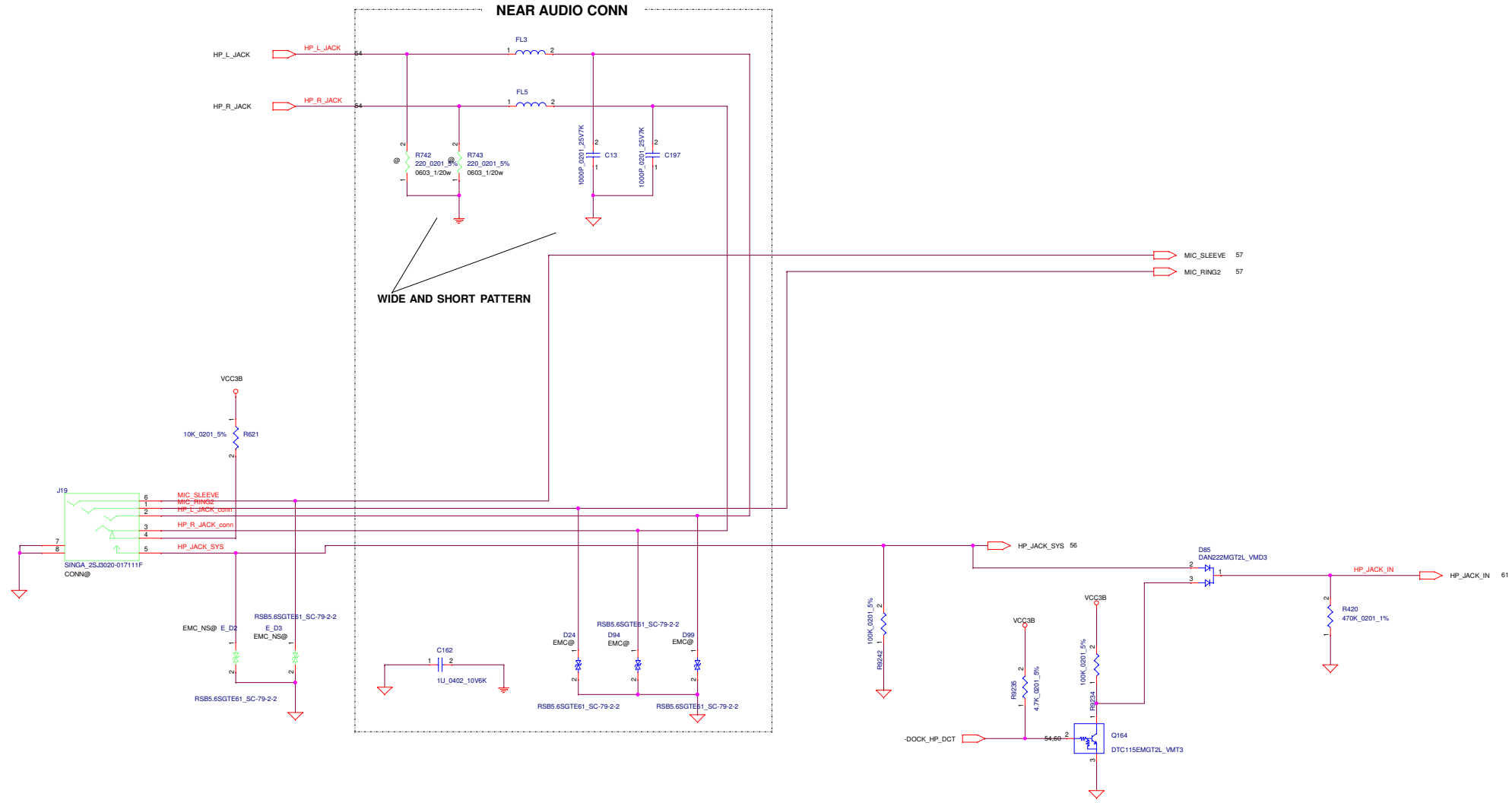




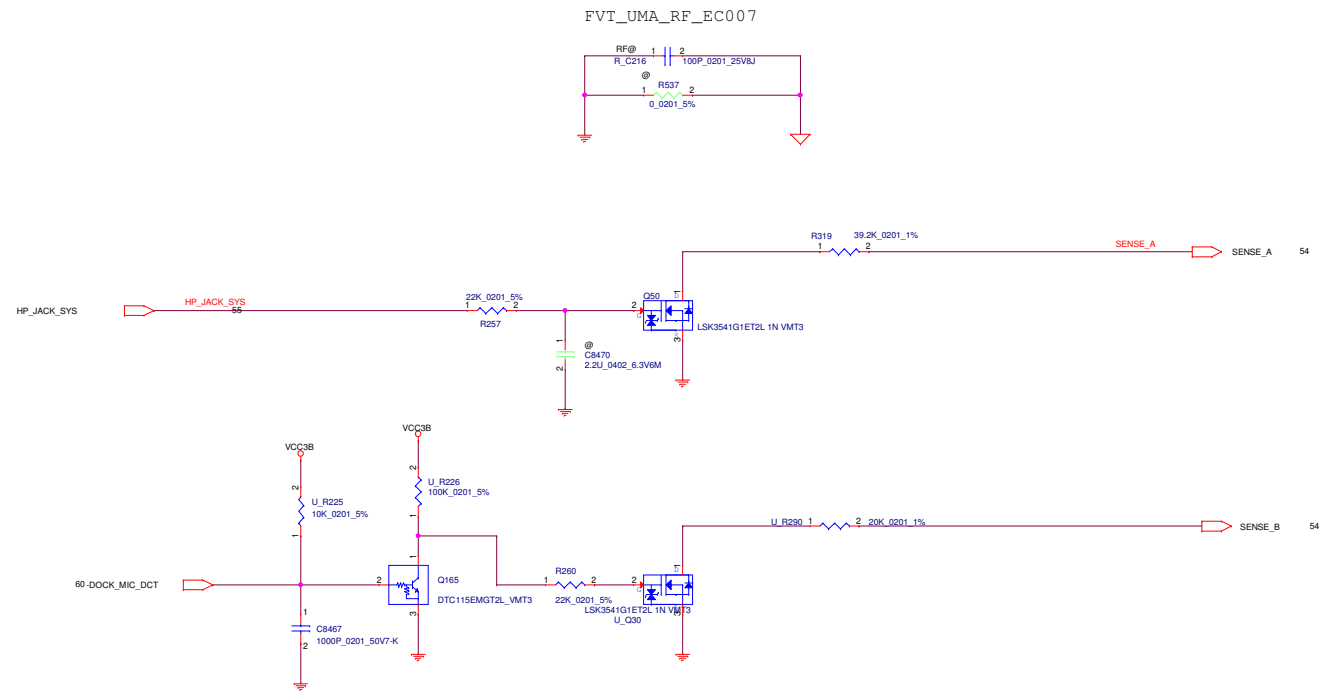


PLACE UNDER CODEC





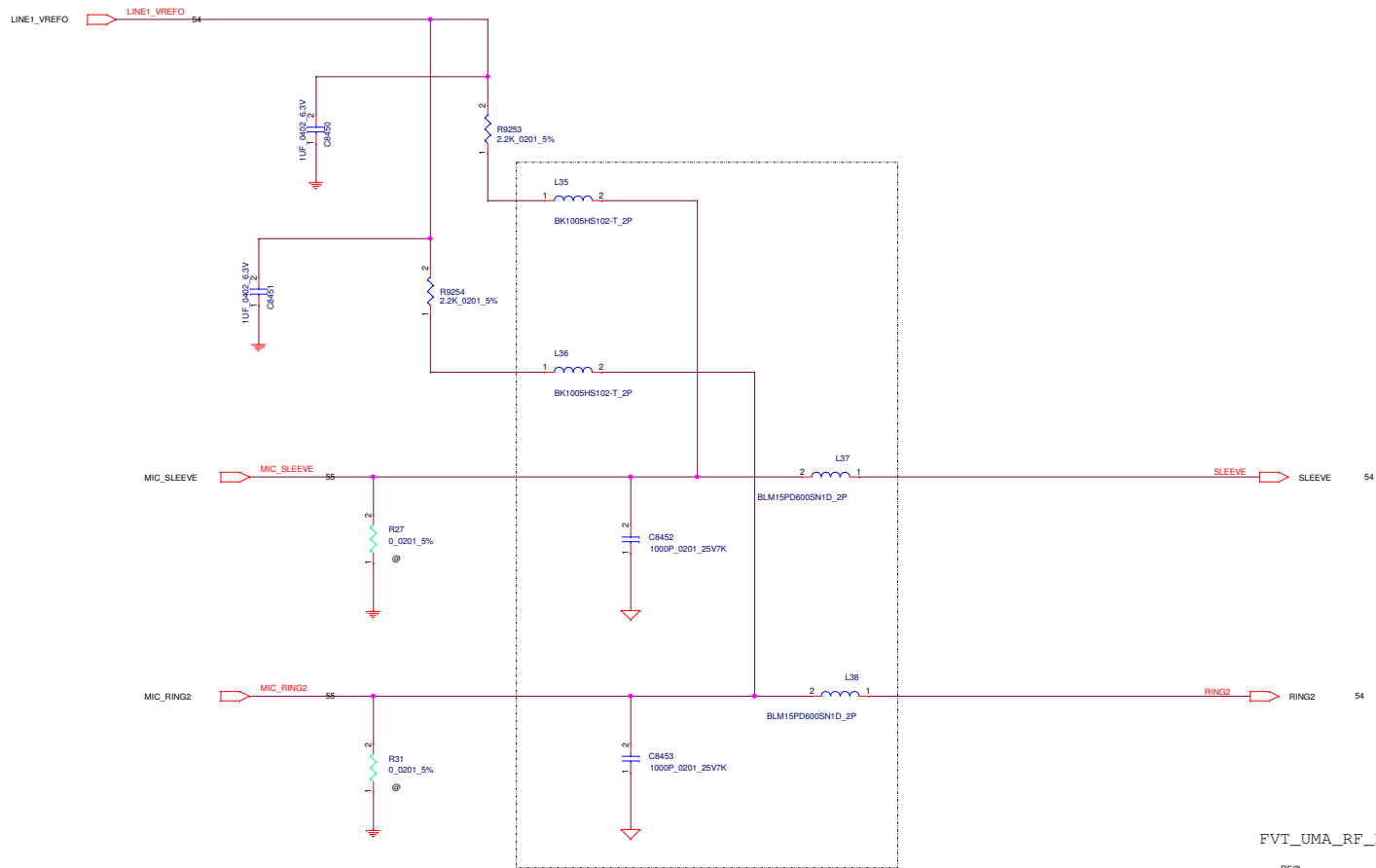




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Date:	Thursday, October 23, 2014	Sheet	56	of	100

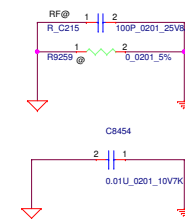




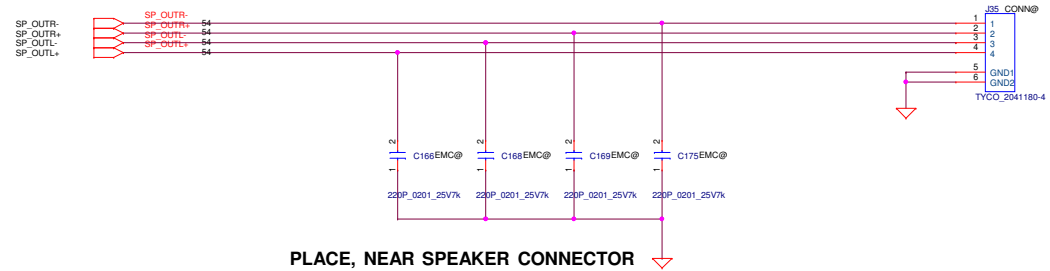



NEAR EXT MIC CONN

FVT\_UMA\_RF\_EC006

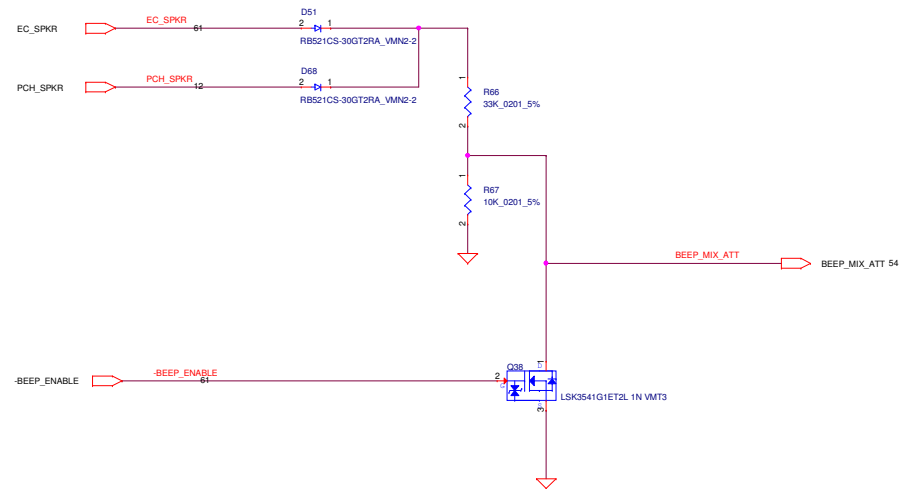







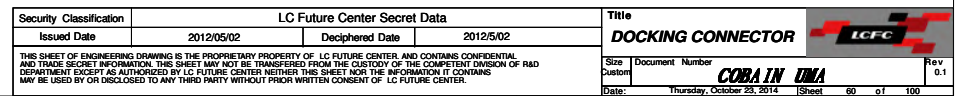
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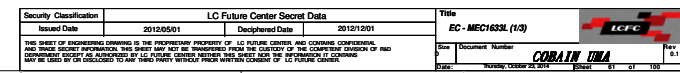


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Size	Document Number	CORAIN DMA		Rev	0.1	
Date:	Thursday, October 23, 2014	Sheet	99	of	100	

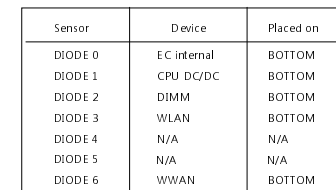




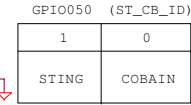











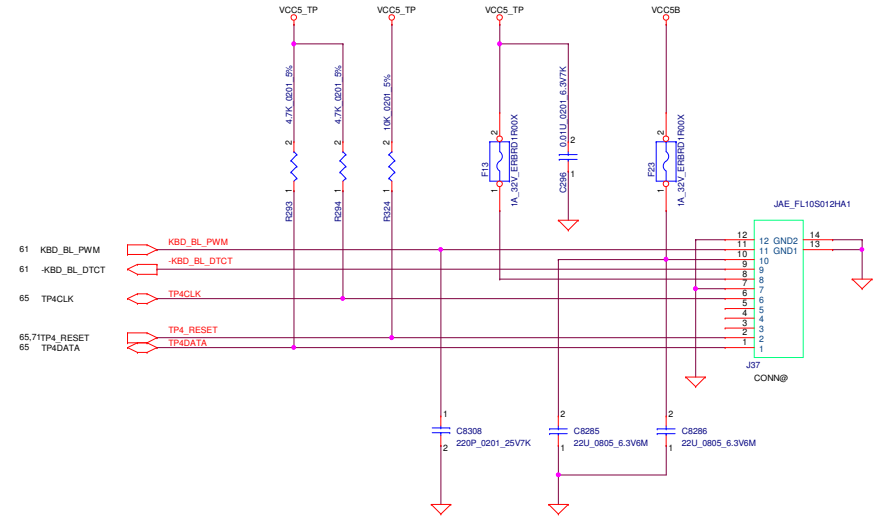
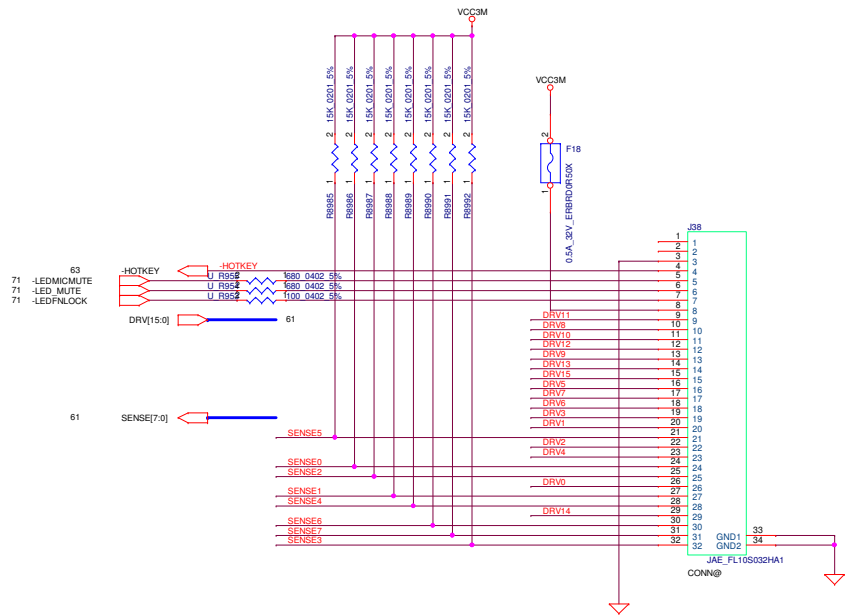


JTAG debug port

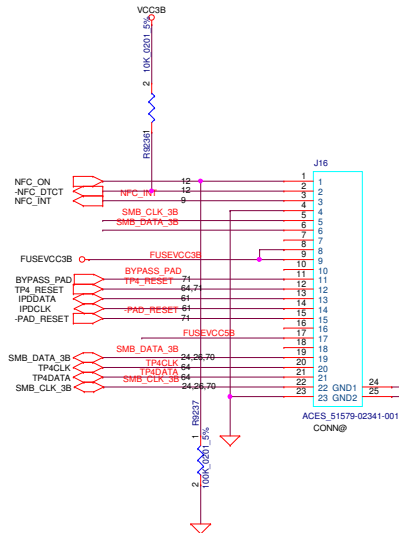
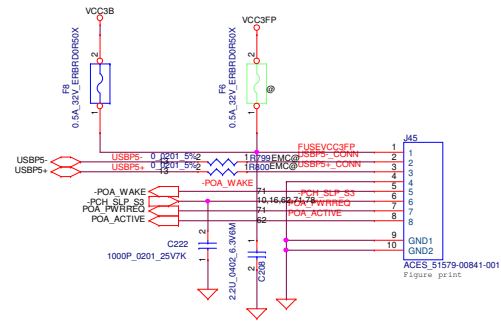
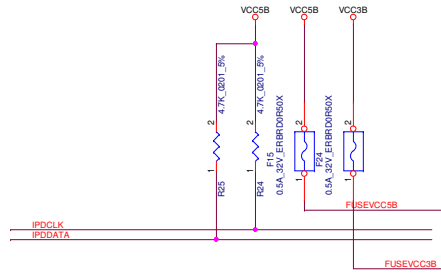
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trace FIFO debug port
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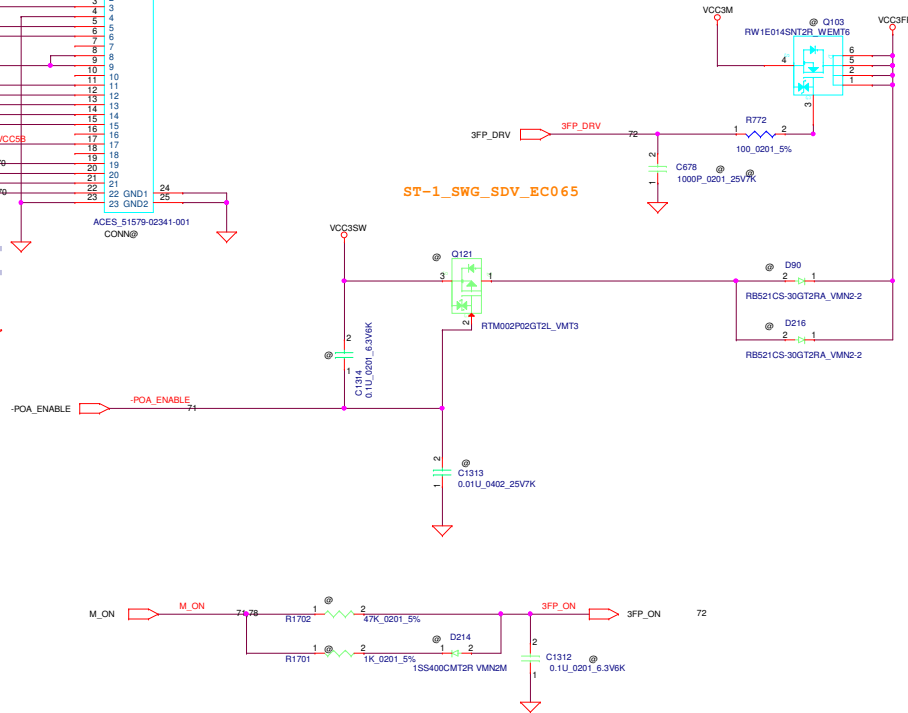








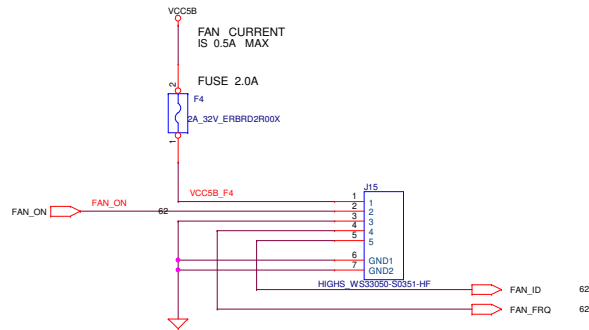
ST-1\_SWG\_SDV\_EC065





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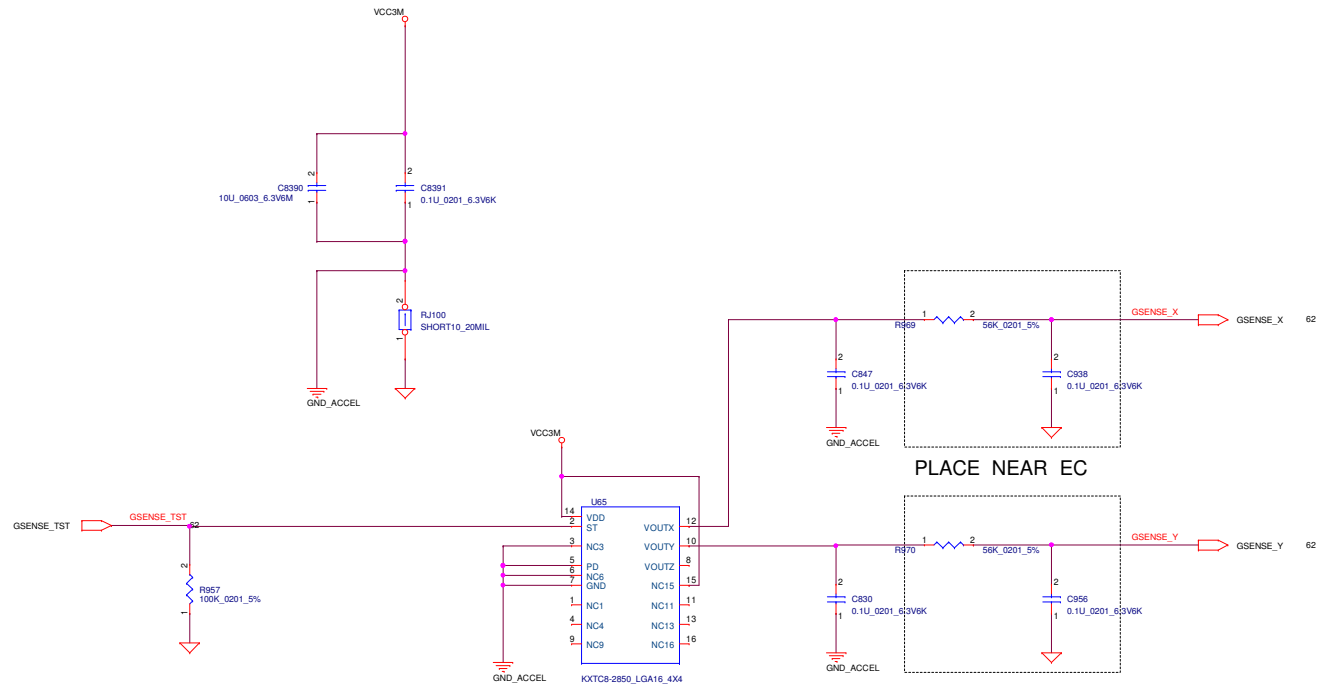


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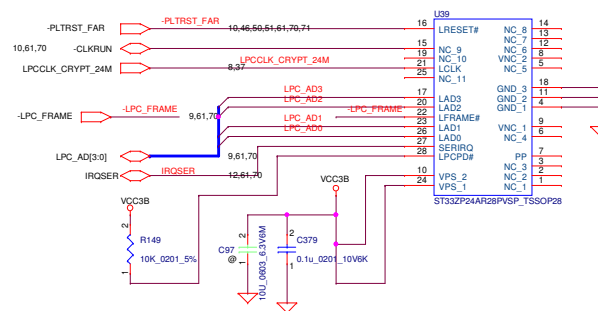


TABLE

	LIS34AL KXTC8-2850	NO ACC.
R401 R957	NO_ASM ASM	ASM ASM
U65 Q105	ASM ASM	NO_ASM NO_ASM
R885 C829 C969	10-OHM ASM ASM	NO_ASM NO_ASM NO_ASM
C830 C847	ASM ASM	NO_ASM NO_ASM
R969 C938 R970 C956	56K ASM 56K ASM	NO_ASM NO_ASM NO_ASM NO_ASM
C704 R344 C703	NO_ASM NO_ASM NO_ASM	NO_ASM NO_ASM NO_ASM
R125	ASM	ASM







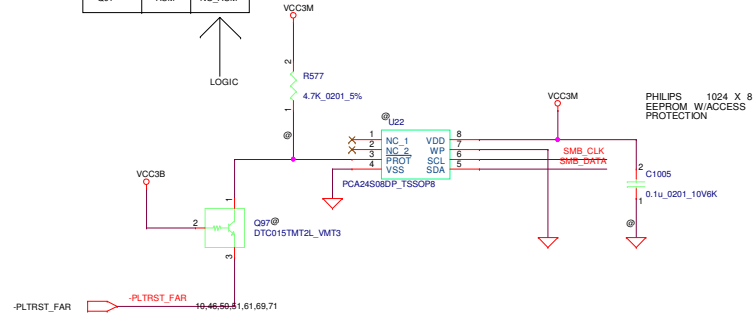
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				COBAIN UMA	
				Date:	Thursday, October 25, 2014
				Sheet	69 of 100
				Rev	0.1



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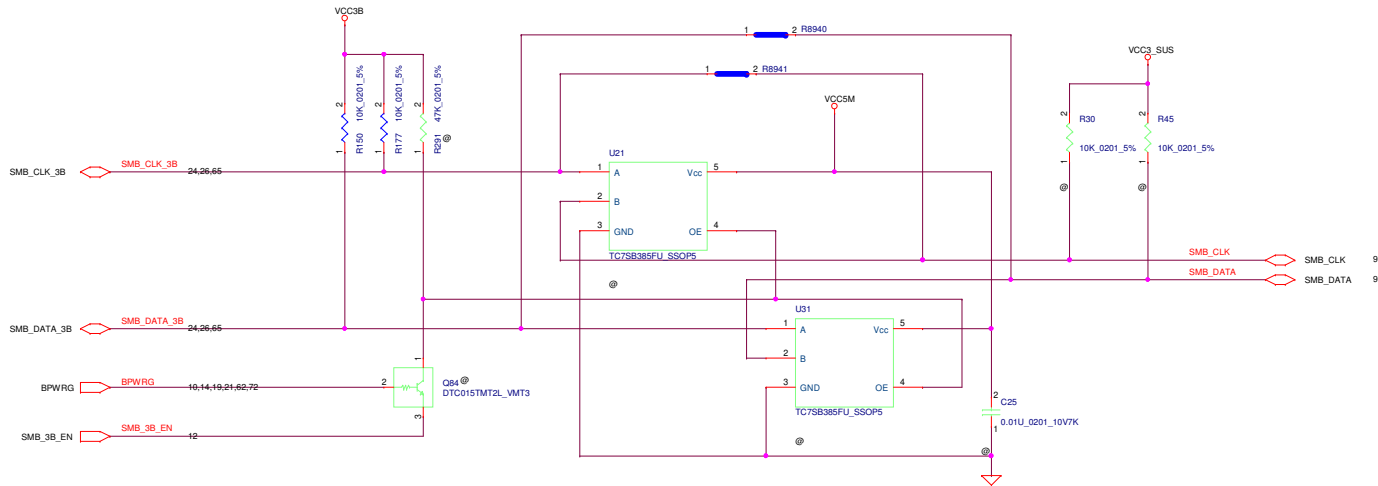
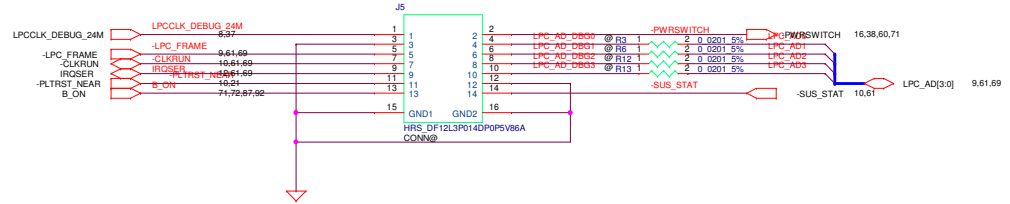
EEPROM	U22	U23
U22	ASM	NO_ASM
C1005	ASM	NO_ASM
R577	ASM	NO_ASM
Q97	ASM	NO_ASM

LOGIC



Update the table for LPC debug port

LPC Debug Port		
J5	ASM	NO_ASM
R9062	ASM	ASM

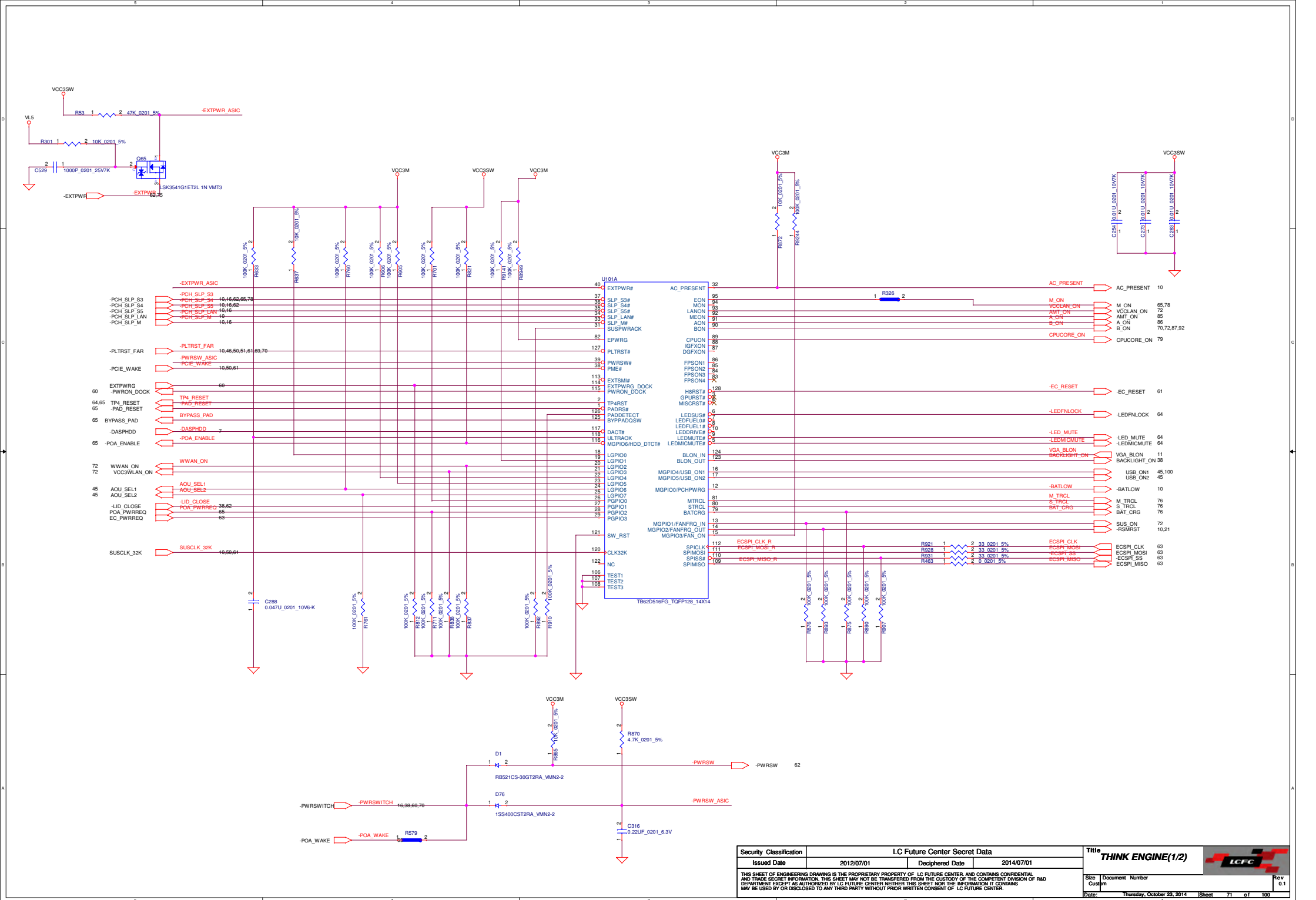


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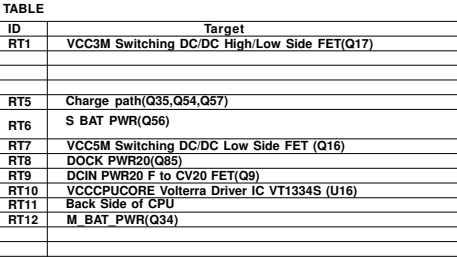
EEPROM	U22	U23
U21	ASM	NO_ASM
U31	ASM	NO_ASM
C25	ASM	NO_ASM
R291	ASM	NO_ASM
Q84	ASM	NO_ASM
R8941	NO_ASM	ASM
R8940	NO_ASM	ASM
R30	ASM	NO_ASM
R45	ASM	NO_ASM

LOGIC





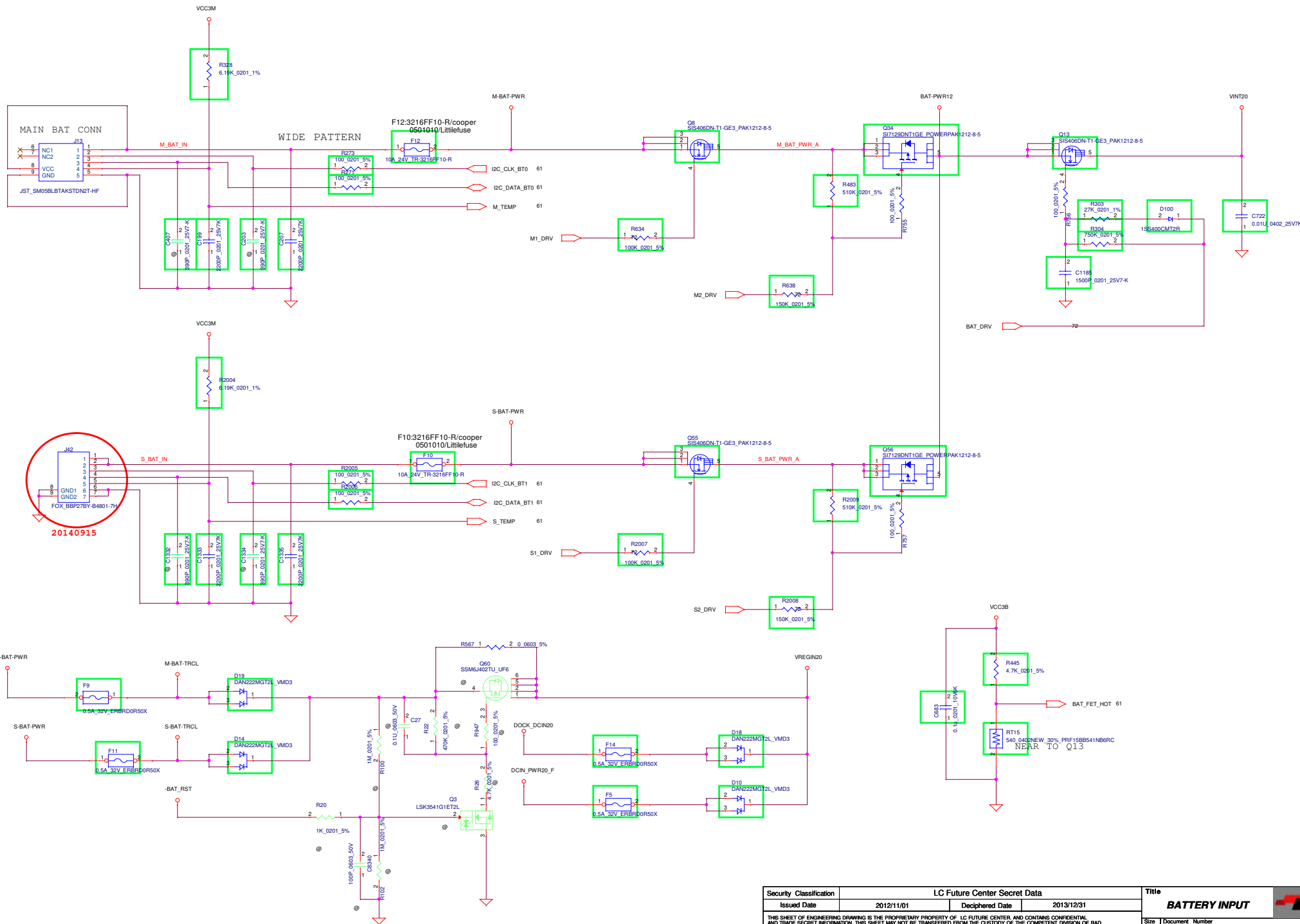














to connect lines of I2C\_DATA and I2C\_CLK in parallel

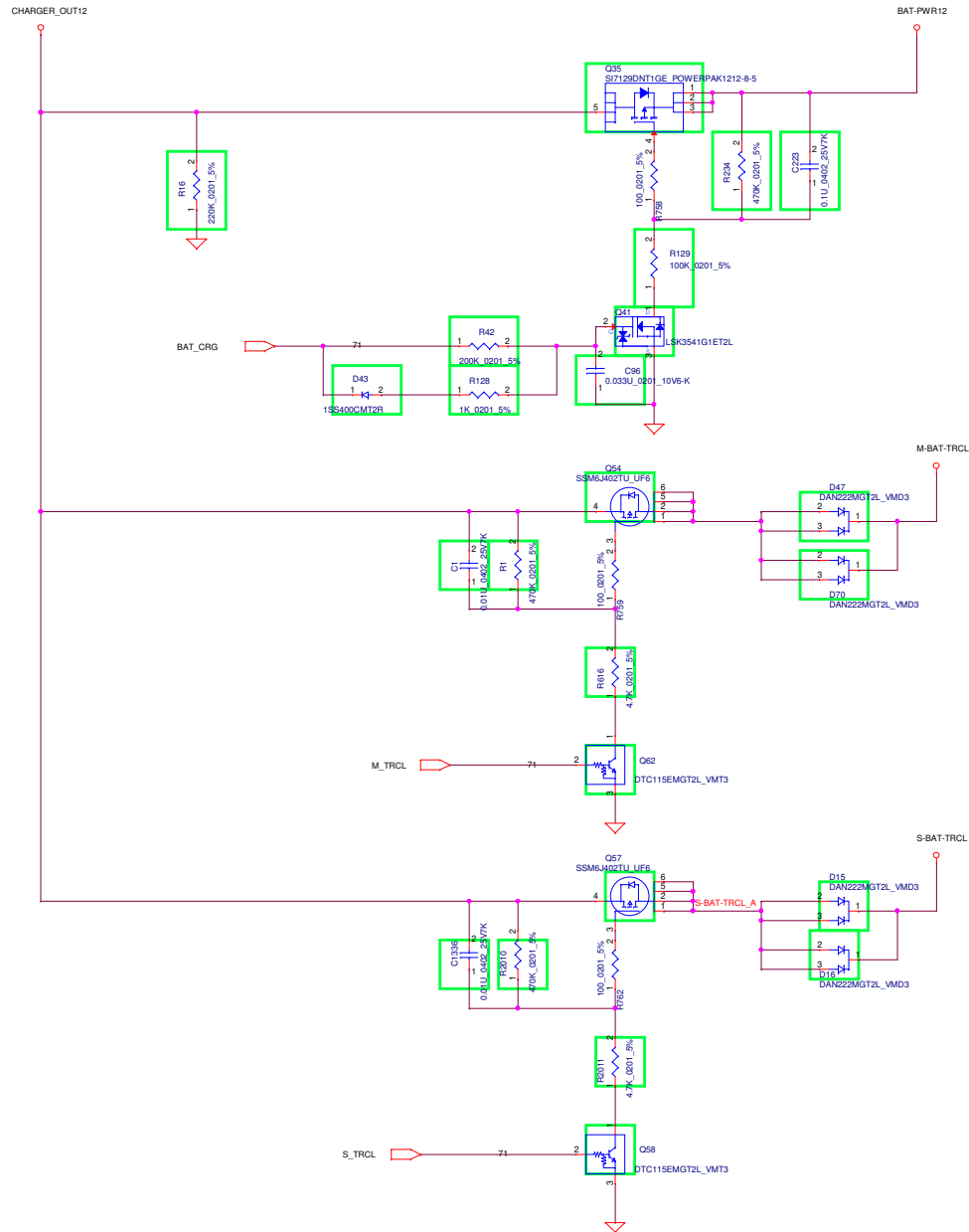
All the input MLCCs on 20V must be placed symmetrically on Top and Bottom.

place R735 and C299 near EC

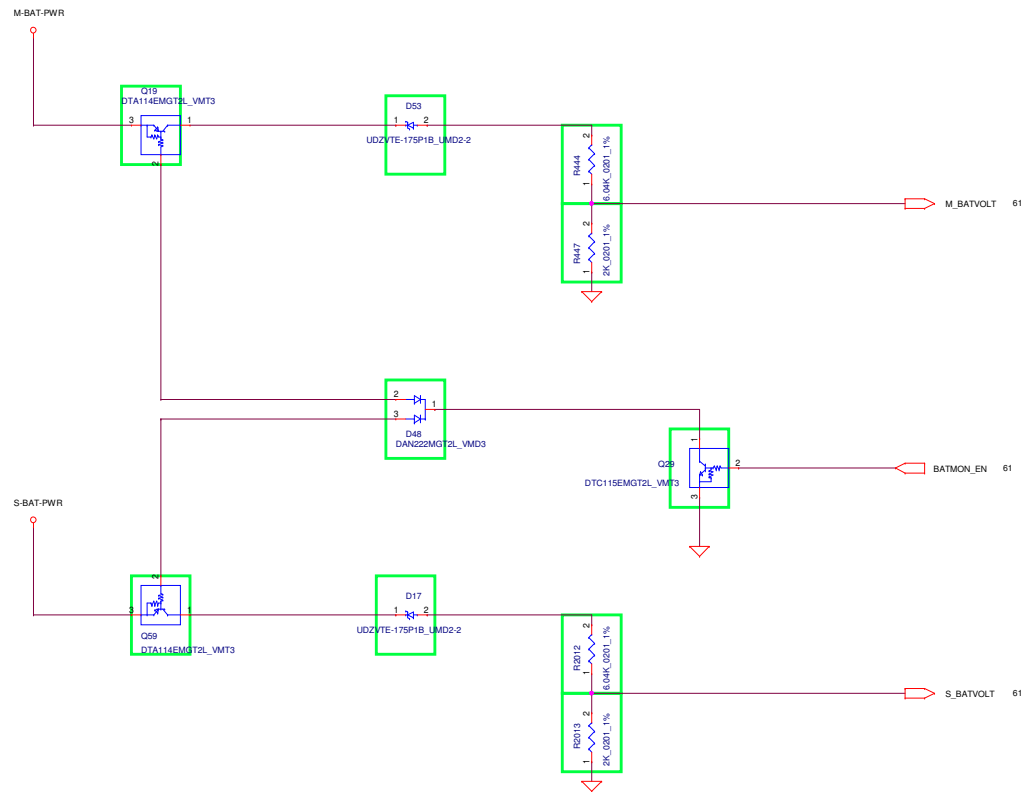
	170W Adapter	135W Adapter	90W Adapter	65W Adapter	45W Adapter
ACDC_ID signal	2.590V >= ID > 2.149V		1.818V >= ID > 1.120V		0.663V >= ID > 0.234V
-65W_AC signal	Low	2.109V >= ID > 1.663V	Low	0.134V >= ID > 0.693V	High
-90W_AC signal	Low	Low	Low	High	High

Security Classification		LC Future Center Secret Data		Title	
Issued Date		2012/11/01		Deciphered Date	
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Size		Document Number		Rev	
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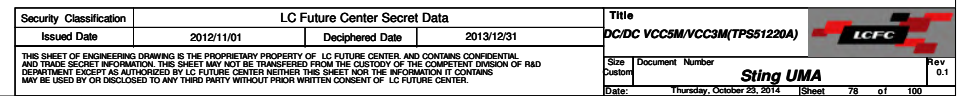




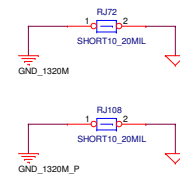
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				<b>Sting UMA</b>	
				Date:	Thursday, October 23, 2014
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All the input MLCCs on 20V must be placed symmetrically on Top and Bottom.

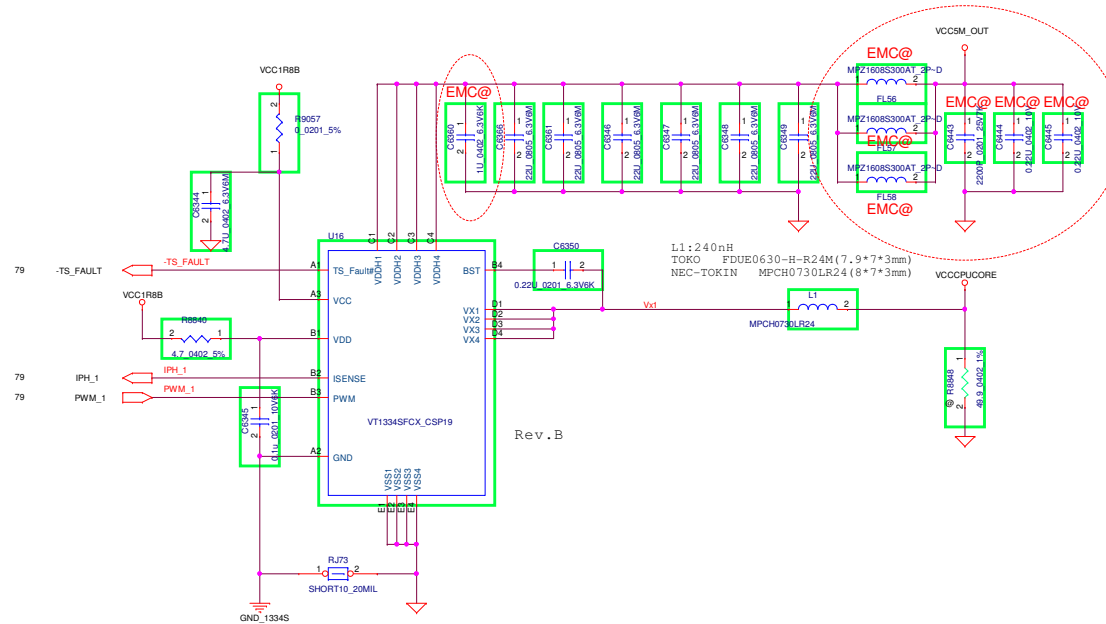







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				Sting UMA			
				Date:	Thursday, October 23, 2014	Sheet	79 of 100





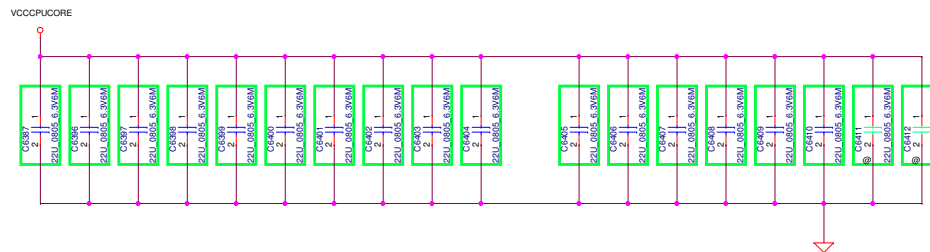
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Size		Document Number		Sting UMA							
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16pcs 22uF for VCCCPUCORE of 25W ULT CPU  
(14pcs 22uF for VCCCPUCORE of 15W ULT CPU)

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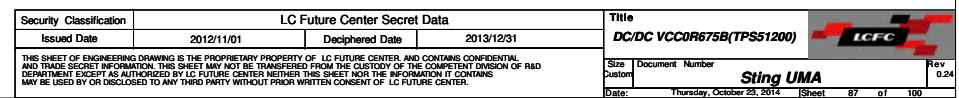















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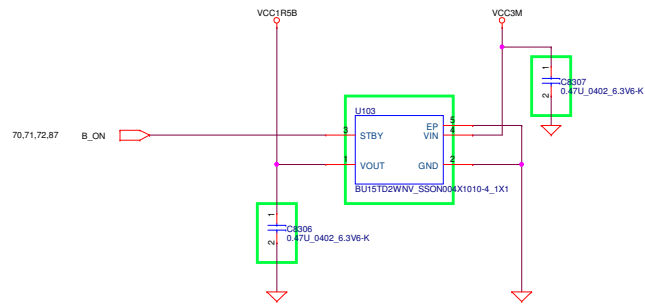


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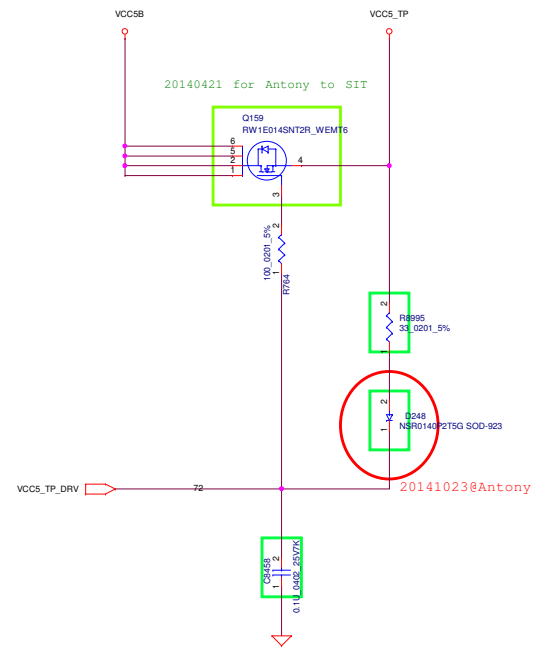
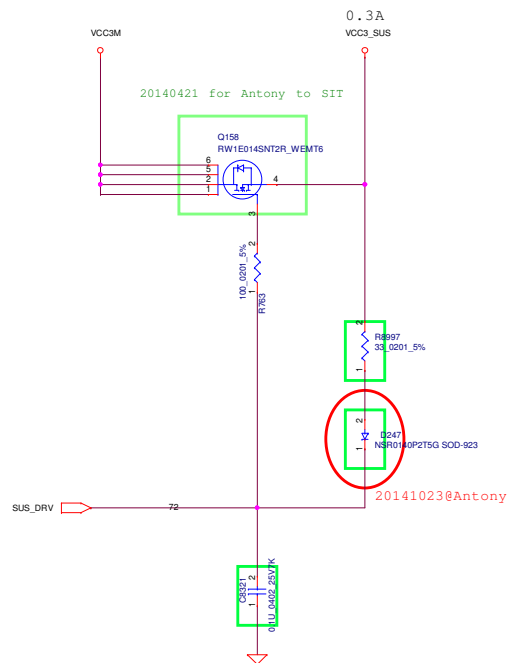






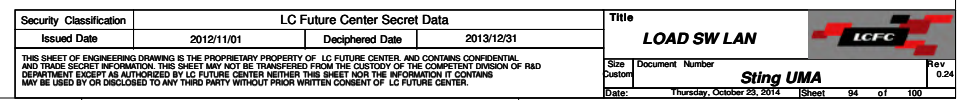
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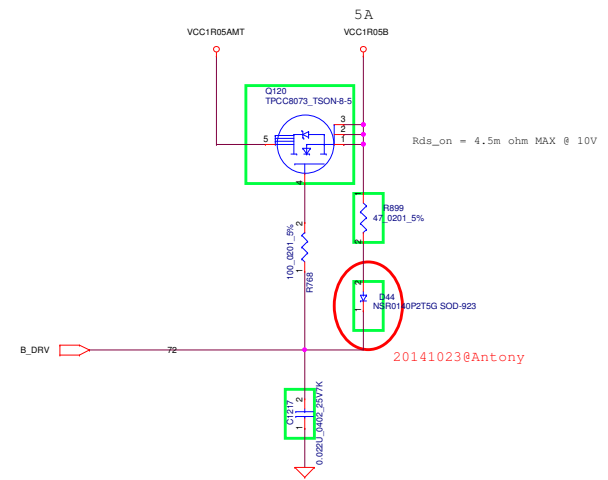
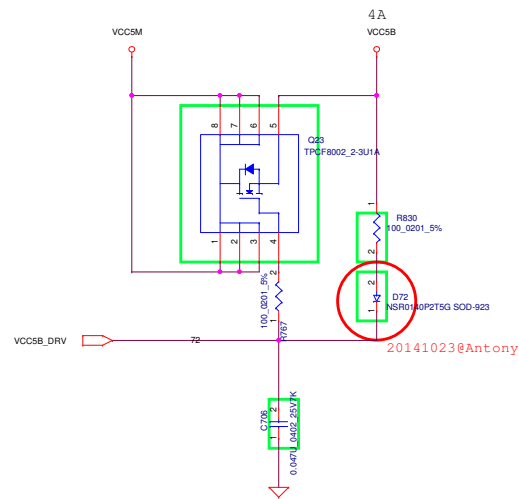
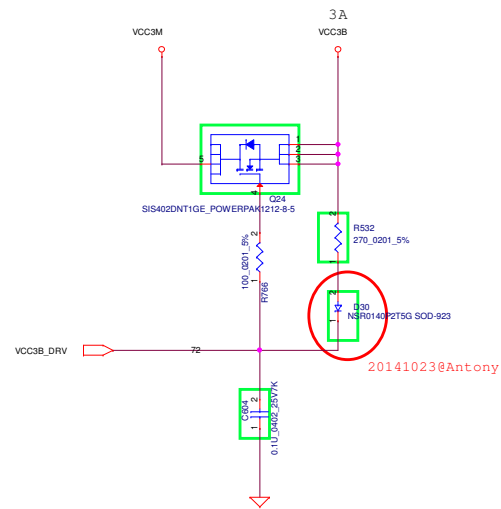


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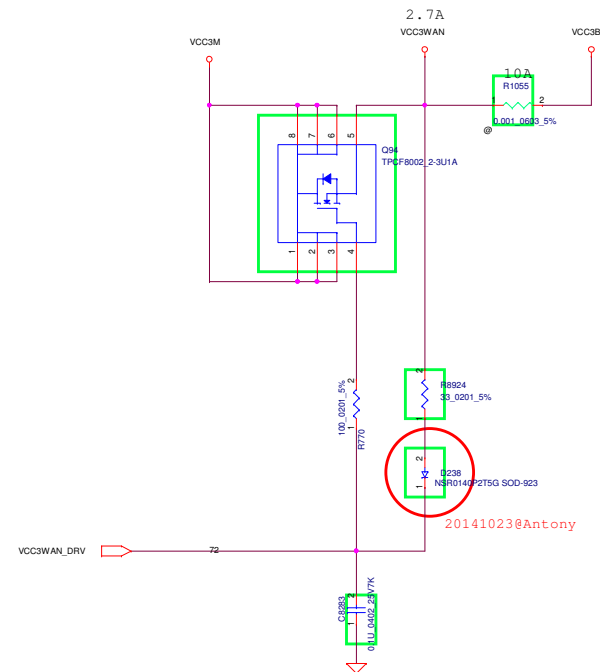
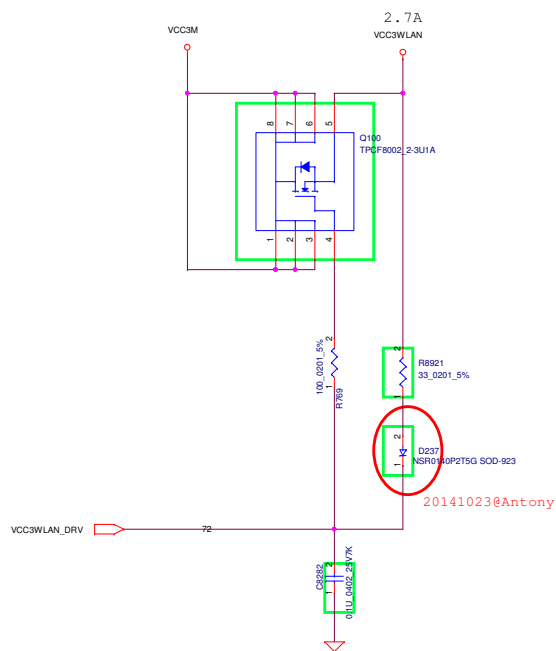
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TABLE

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Q94	ASM	NO-ASM
R8924	ASM	NO-ASM
R8926	ASM	NO-ASM
C8283	ASM	NO-ASM
D238	ASM	NO-ASM

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