CB-1 SWG LOGIC SCHEMATICS

001.TITLE PAGE 002.EC HISTORY 003.CPU(1/16) : DDI/EDP 004.CPU(2/16) : MISC/JTAG 005.CPU(3/16) : DDR3L CHANNEL-A

006.CPU(4/16): DDR3L CHANNEL-B 007.CPU(5/16): RTC/HDA/SATA/JTAG 008.CPU(6/16): CLOCK SIGNALS

009.CPU(7/16): LPC/SPI/SMBUS/C-LINK

010.CPU(8/16): SYSTEM PM

011.CPU(9/16): LCD/PCI/DDI CONTROL

012.CPU(10/16): GPIO/CPU/MISC/LPIO

013.CPU(11/16) : PCIE/USB 014.CPU(12/16) : POWER

015.CPU(13/16): POWER

016.CPU(14/16) : GND

017.CPU(15/16): NCTF

018.CPU(16/16): CFG/RESERVED

019.DDI-VGA CONVERTER

020.BLANK

021.XDP CONNECTOR

022.RTC BATTERY

023.SPI FLASH

024.DDR3L BASE MEMORY CH-A (1/2)

025.DDR3L BASE MEMORY CH-A (2/2)

026.DDR3L SO DIMM CHANNEL-B

027.DDR3L DECOUPLING

028.N14M-GE(1/6) : PEG I/F

029.N14M-GE(2/6) : DIGITAL OUT I/F

030.N14M-GE(3/6) : VRAM I/F

031.N14M-GE(4/6) : GPIO

032.N14M-GE(5/6) : POWER

033.N14M-GE(6/6) : GND

034.VRAM CHANNEL-A

035.BLANK

36.MEMORY TERMINATION

37.BLANK

38.LCD CONNECTOR

39.BLANK

40.EXT CRT INTERFACE

41.DISPLAY PORT CONNECTOR

42.BLANK

43.SATA HDD CONN

44.BLANK

45.USB POWER/CONN

46.GBE CLARKVILLE

47.BLANK

48.GBE MAGNETICS 49.RJ45 CONNECTOR

50.PCIE MINI CARD SLOT

51.MEDIA CARD CONTROLLER

52.MEDIA CARD INTERFACE

53.SMART CARD I/F

54.AUDIO ALC3232-GR 55.AUDIO CONNECTOR

56.AUDIO JACK SENSE

57.AUDIO EXT MIC I/F

58.AUDIO SPEAKER

59.AUDIO BEEP

60.BLANK

61.MEC1619(1/3)

62.MEC1619(2/3)

63.MEC1619(3/3)

64.KEYBOARD CONNECTOR

65.TOUCH PAD CONNECTOR

66.BLANK

67.FAN CONNECTOR

68.G-SENSOR

69.TPM

70.EEPROM/SMBUS SW

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71.THINK ENGINE(1/2) 72.THINK ENGINE(2/2)

73.DC-IN

74.BATTERY INPUT

75.BATTERY CHARGER(BQ24760)

76.CHARGER SELECTOR

77.BATTERY MONITOR

78.DC/DC VCC5M/VCC3M (TPS51220A)

79.DC/DC VCCCPUCORE(VT1320M)

80.DC/DC VCCCPUCORE(VT1334S)

81.BLANK

82.VCCCPUCORE DECOUPLING

83.DC/DC VCCGFXCORE_D (TPS51728)

84.BLANK

85.DC/DC VCC1R05AMT(VT356)

86.DC/DC VCC1R35A(VT357)

87.DC/DC VCC0R675B(TPS51200)

88.DC/DC VCC1R5VIDEO(VT356)

89.DC/DC VCC1R05VIDEO_PLL(BD3551HFN)

90.DC/DC VCC1R8B(BD9139)

91.BLANK

92.DC/DC VCC1R5B(BD3551HFN)

93.LOAD SW PCH SUS

94.LOAD SW LAN

95.LOAD SW VIDEO

96.LOAD SW B

97.BLANK

98.LOAD SW WWAN & WLAN

99.PTH FOR SCREW HOLES

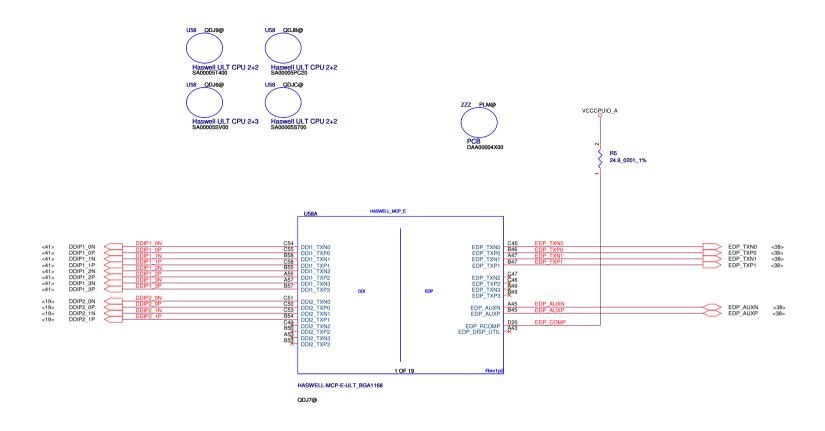
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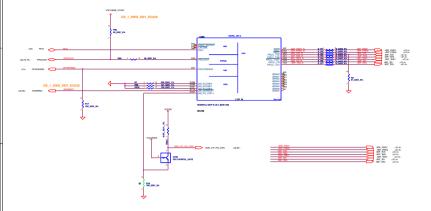
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2012/10/12	CB_1_SWG_SDV_EC012	JV_CB-1_SWG_SDV1_SCH_EC010-011_101101.pdf
2012/10/13	CB_1_SWG_SDV_EC013	JV_CB-1_SWG_SDV1_SCH_EC011-012_101201.pdf
2012/10/16	CB_1_SWG_SDV_EC014	JV_CB-1_SWG_SDV1_SCH_EC013_101501.pdf
2012/10/17	CB_1_SWG_SDV_EC015	JV_CB-1_SWG_SDV1_SCH_EC014_101601.pdf
2012/10/18	CB_1_SWG_SDV_EC016	JV_CB-1_SWG_SDV1_SCH_EC015_101701.pdf
2012/10/19	CB_1_SWG_SDV_EC017	JV_CB-1_SWG_SDV1_SCH_EC016_101801.pdf
2012/10/20	CB_1_SWG_SDV_EC018	JV_CB-1_SWG_SDV1_SCH_EC017_101901.pdf
2012/10/25	CB_1_SWG_SDV_EC018-022	JV_CB-1_SWG_SDV1_SCH_EC018-021_102401.pdf
2012/10/31	CB_1_SWG_SDV_EC023	JV_CB-1_SWG_SDV1_SCH_EC022_103001.pdf
2012/10/32	CB_1_SWG_SDV_EC023-025	JV_CB-1_SWG_SDV1_SCH_EC023-024_103101.pdf
2012/11/15	CB_1_SWG_SDV_EC025-033	JV_CB-1_SWG_SDV1_SCH_EC025-032_111401.pdf
2012/11/23	CB_1_SWG_SDV_EC033-036	JV_CB-1_SWG_SDV1_SCH_EC025-035_112201.pdf
2012/11/27	CB_1_SWG_SDV_EC037	JV_CB-1_SWG_SDV1_SCH_EC036_112601.pdf
2012/12/05	CB_1_SWG_SDV_EC037-039	JV_CB-1_SWG_SDV_SCH_EC037-038_120401.pdf

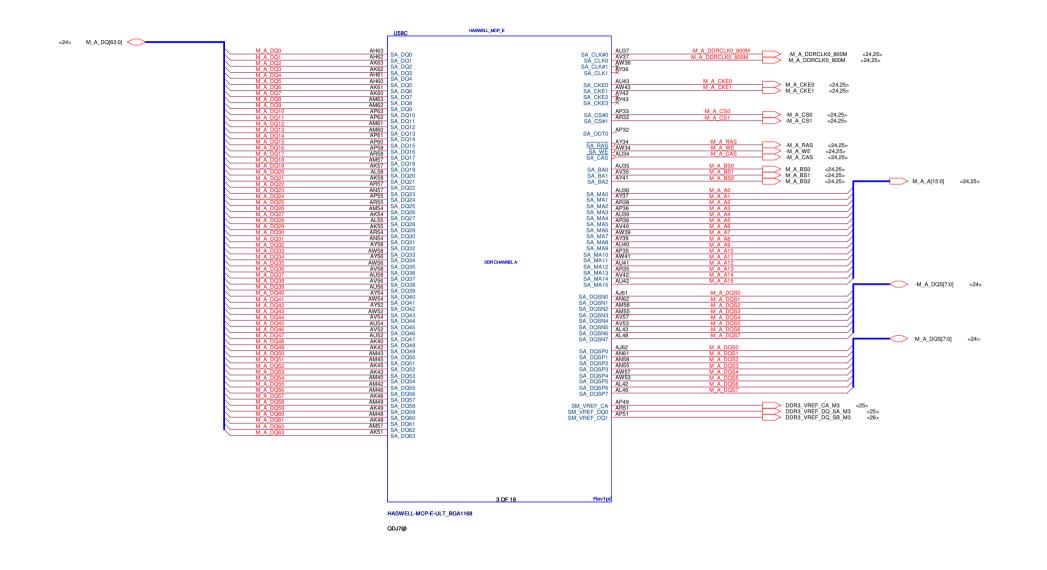
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Issued Date	2012/05/01	Deciphered Date	2012/12/01] '	CPU(1/16) : DDI/EDP		CFC	
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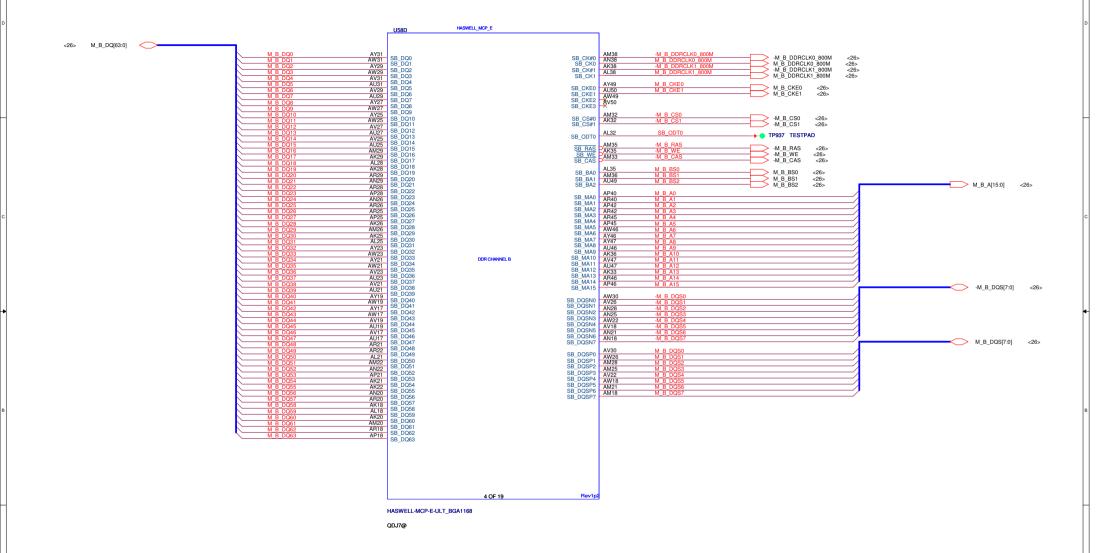
CPU(3/16) : DDR3L CHANNEL-A

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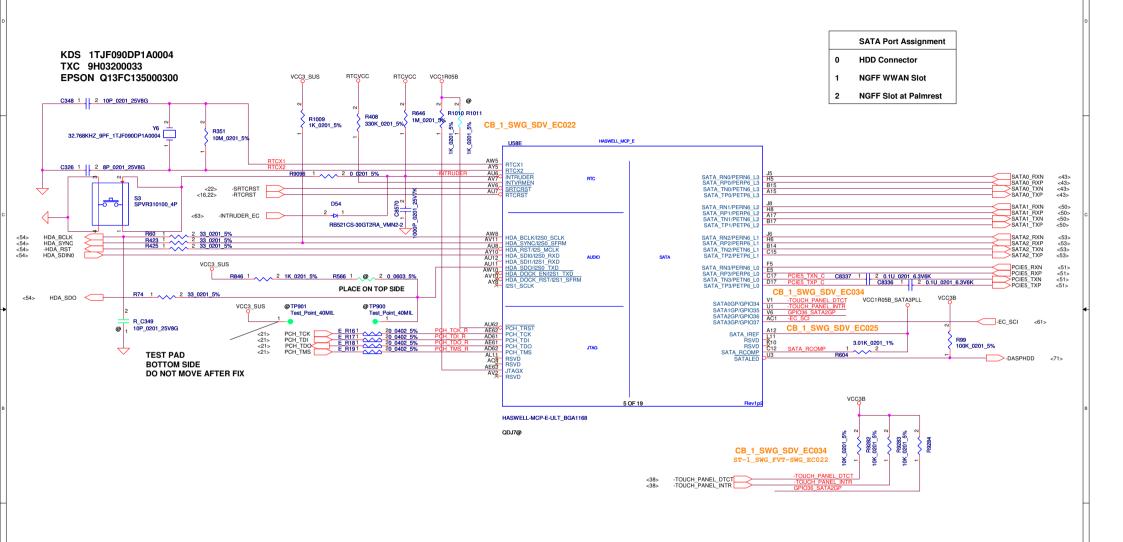


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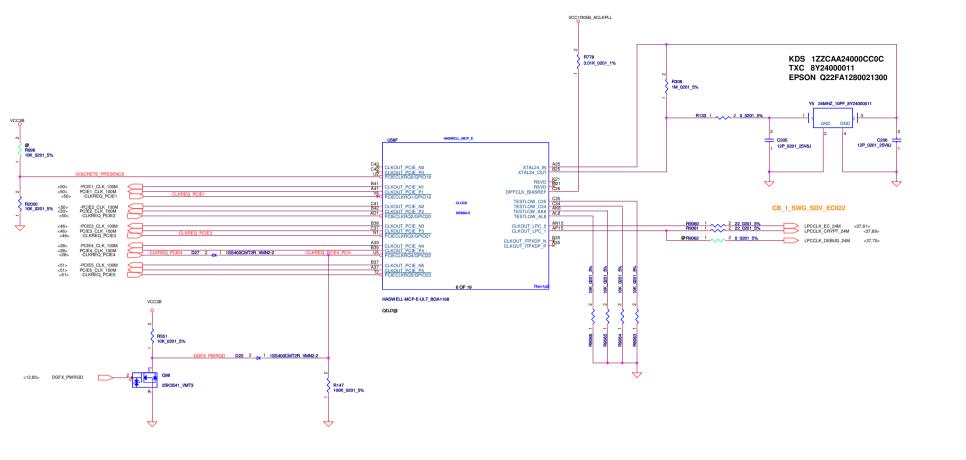
CPU(4/16) : DDR3L CHANNEL-B

Tuesday, July 30, 2013

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				Date:	Tuesday, July 30, 2013	heet	7 of	100



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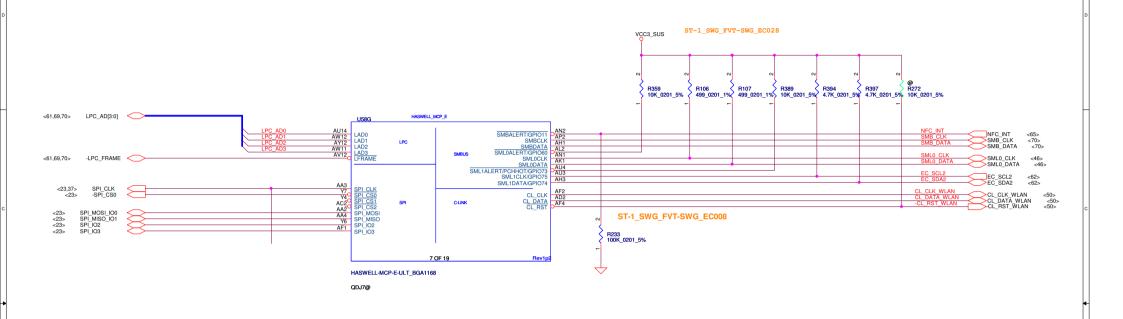
Title

CPU(6/16): CLOCK SIGNALS

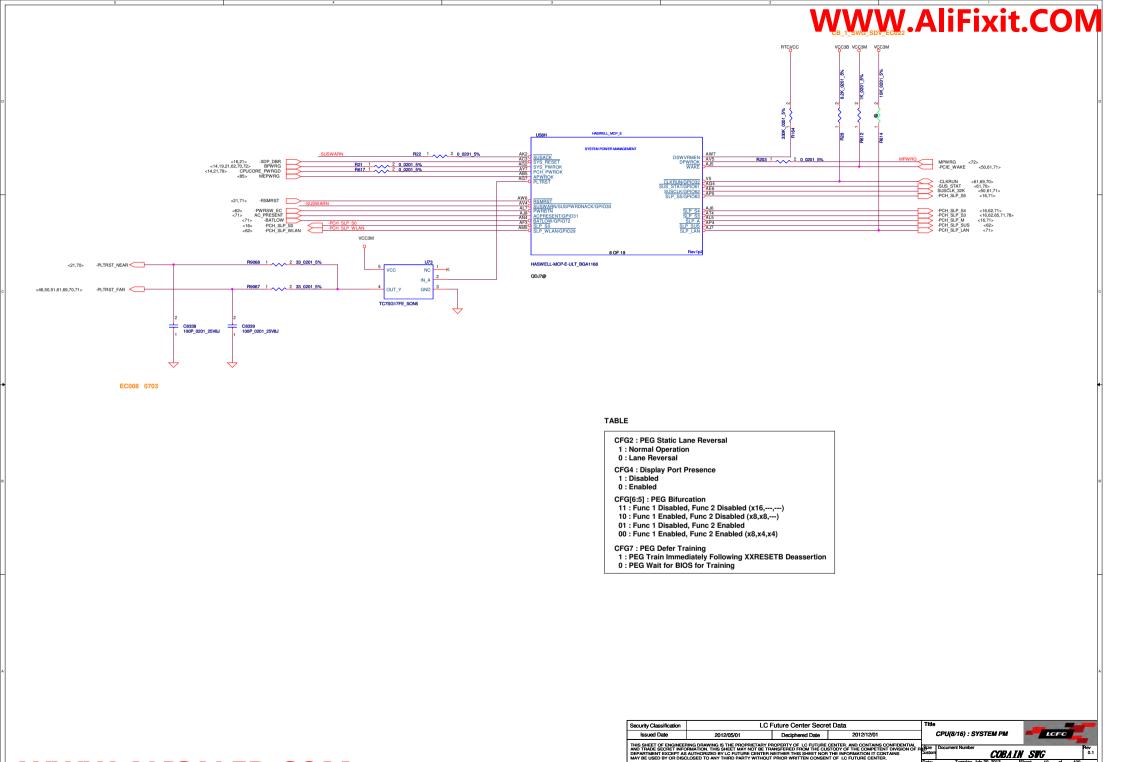
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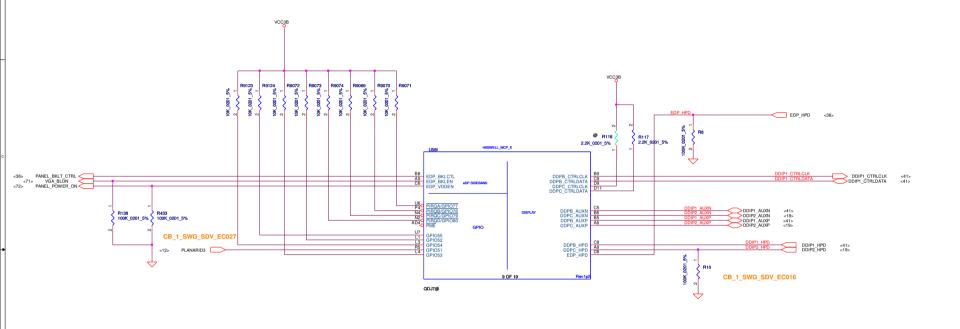
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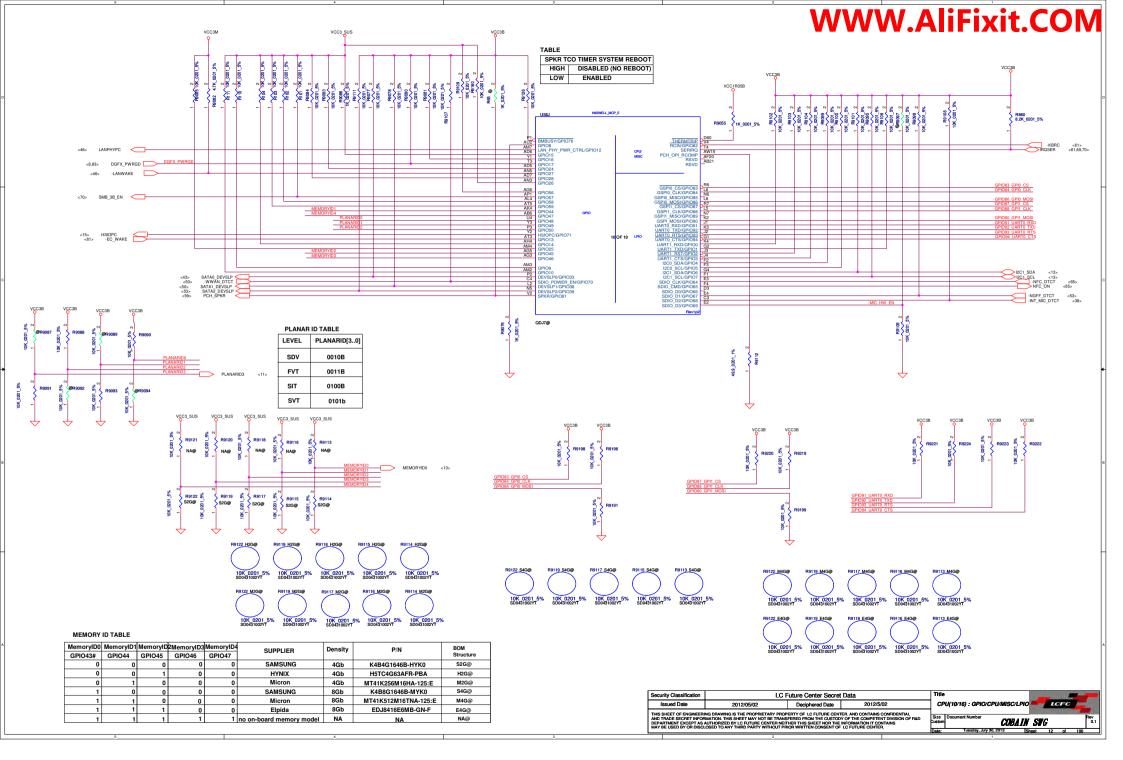


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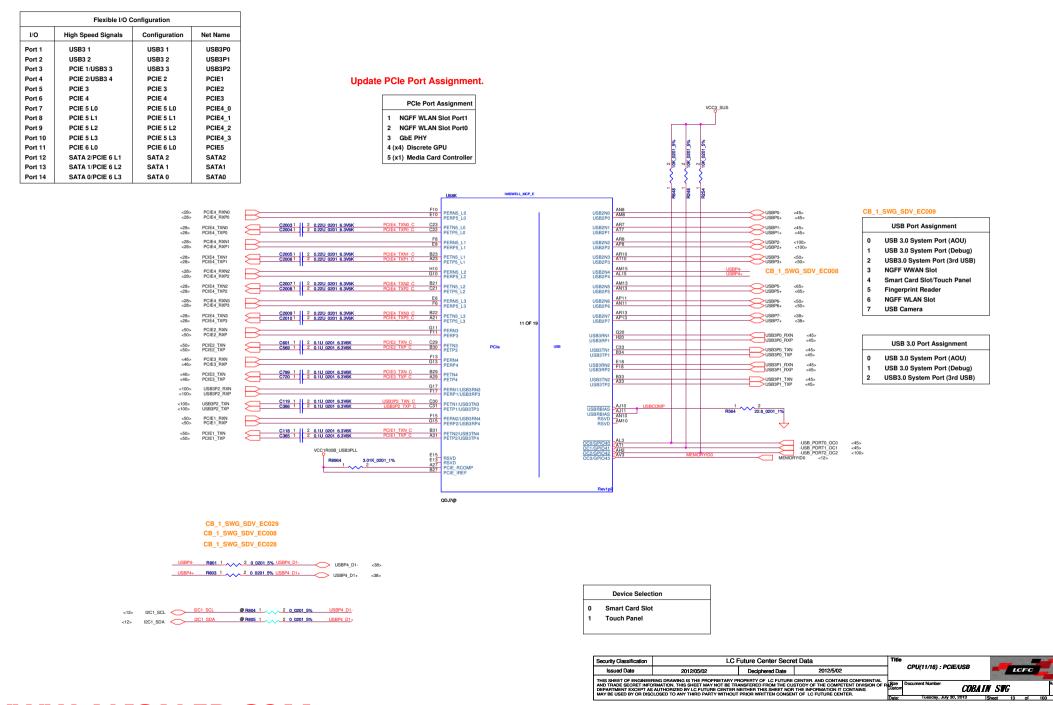


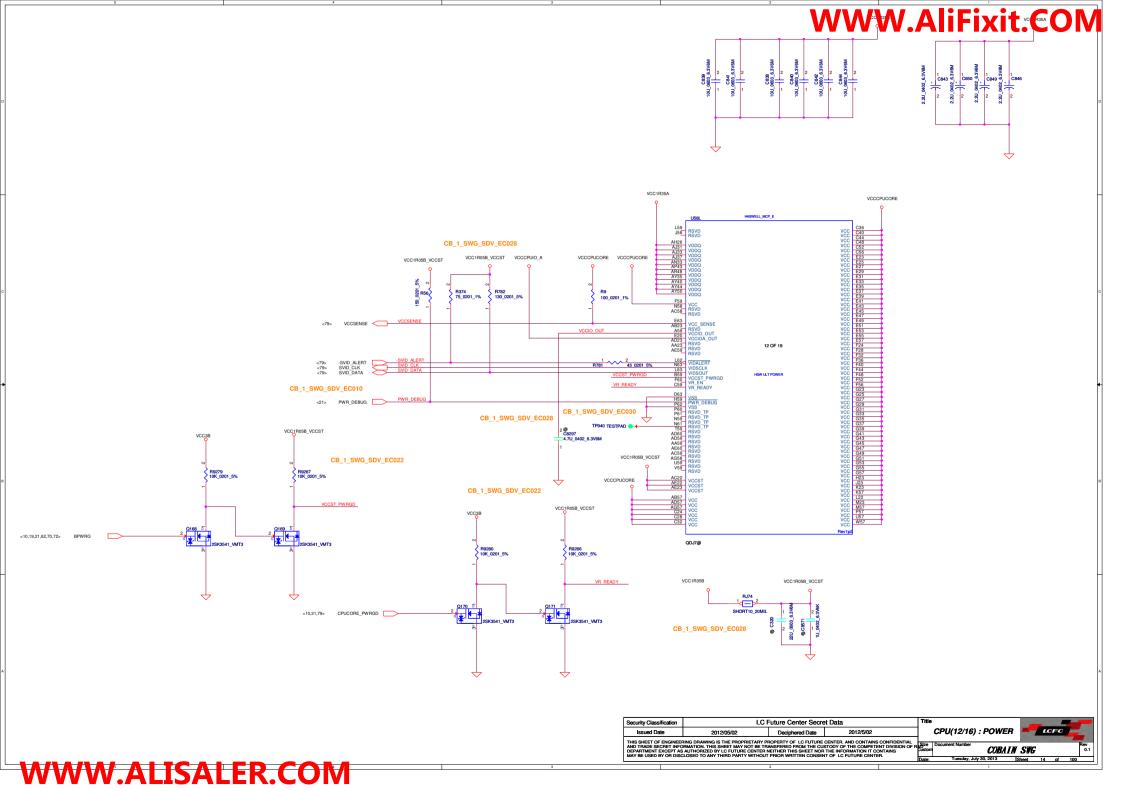


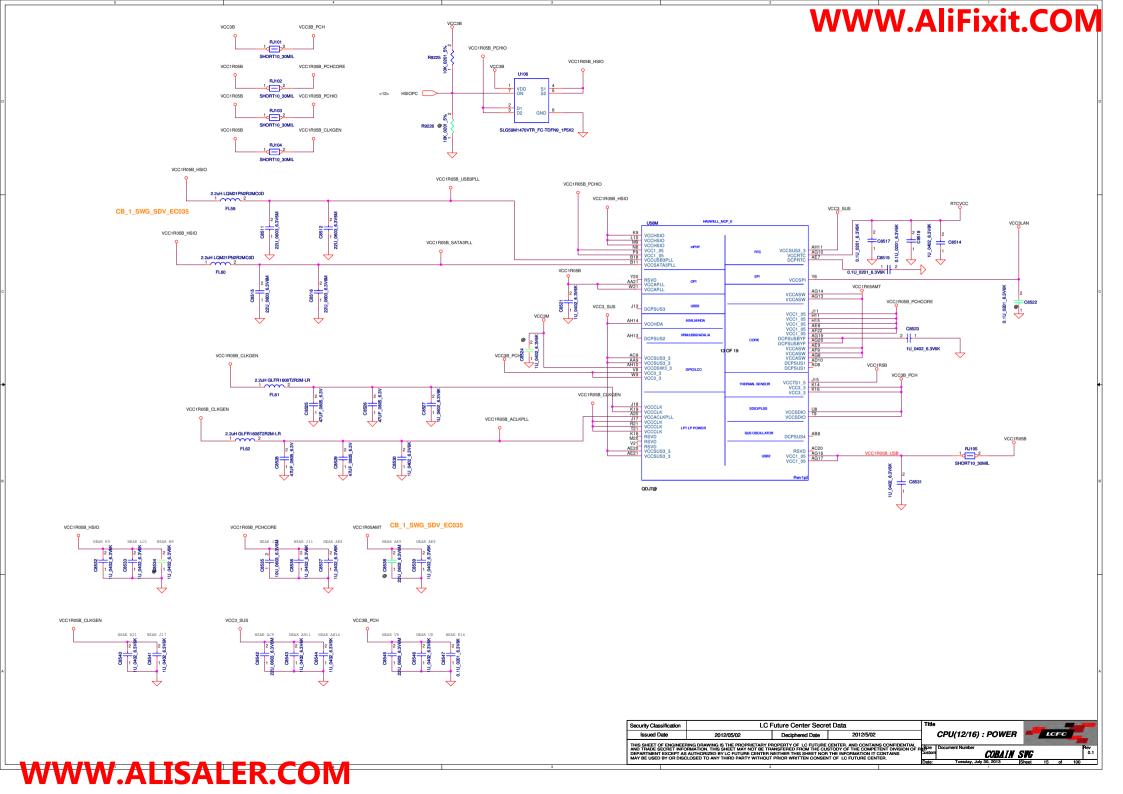
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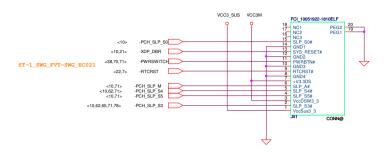
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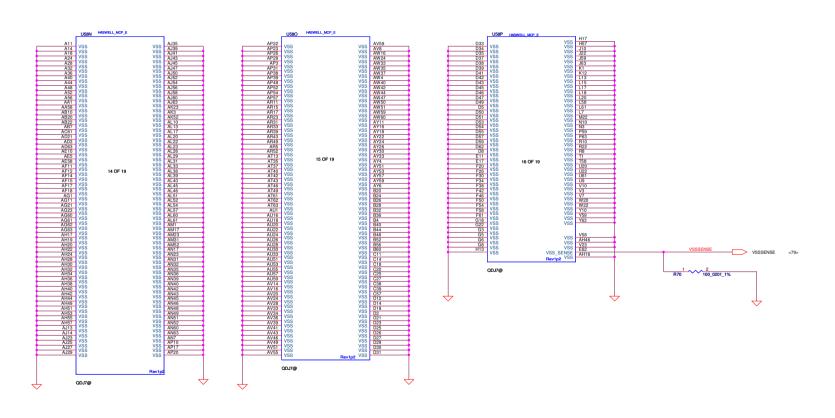






APS/PETS Interface





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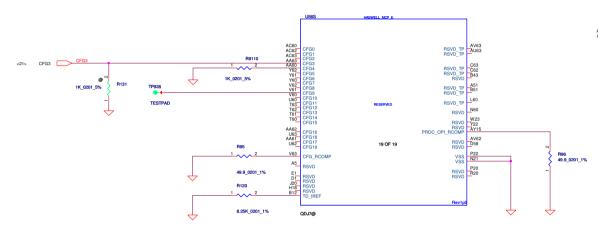
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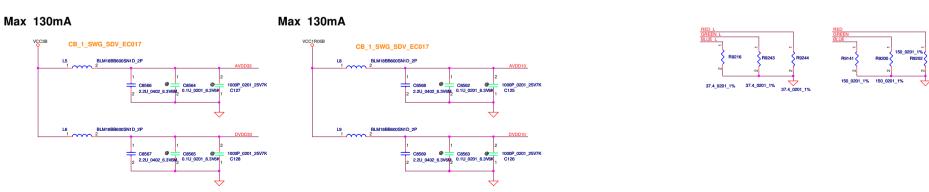


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DDI-VGA CONVERTER

LCFC

COBAIN SWG

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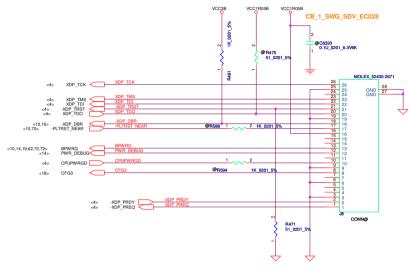
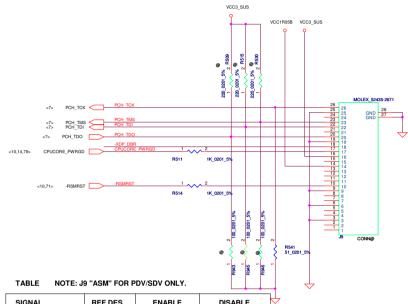


TABLE	NOTE: J8 "ASM" FOR PDV/SDV ONLY	

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

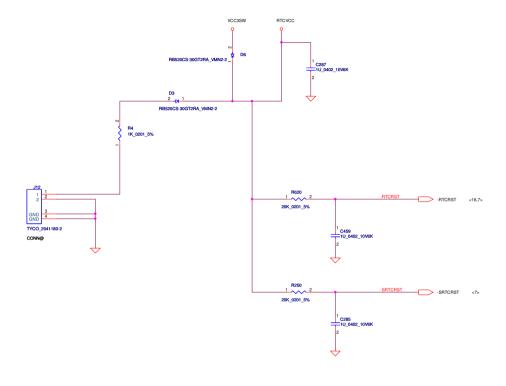
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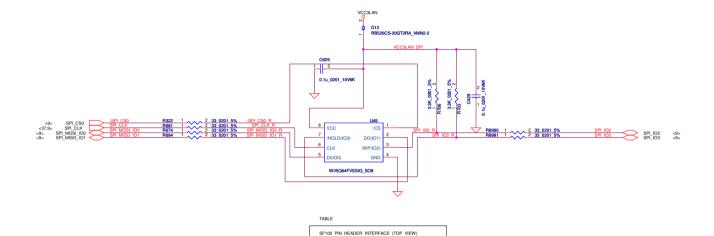
SIGNAL	REF DES	ENABLE	DISABLE
TDO	R509	220	NO ASM
TDO	R943	100	NO ASM
TMS	R530	220	NO ASM
IIVIS	R946	100	NO ASM
TDI	R515	220	NO ASM
וטו	R945	100	NO ASM
тск	R541	51	51
CPUCORE_PWRGD	R511	ASM	NO ASM
-RSMRST	R514	ASM	NO ASM
	J9	ASM	NO ASM

LOGIC

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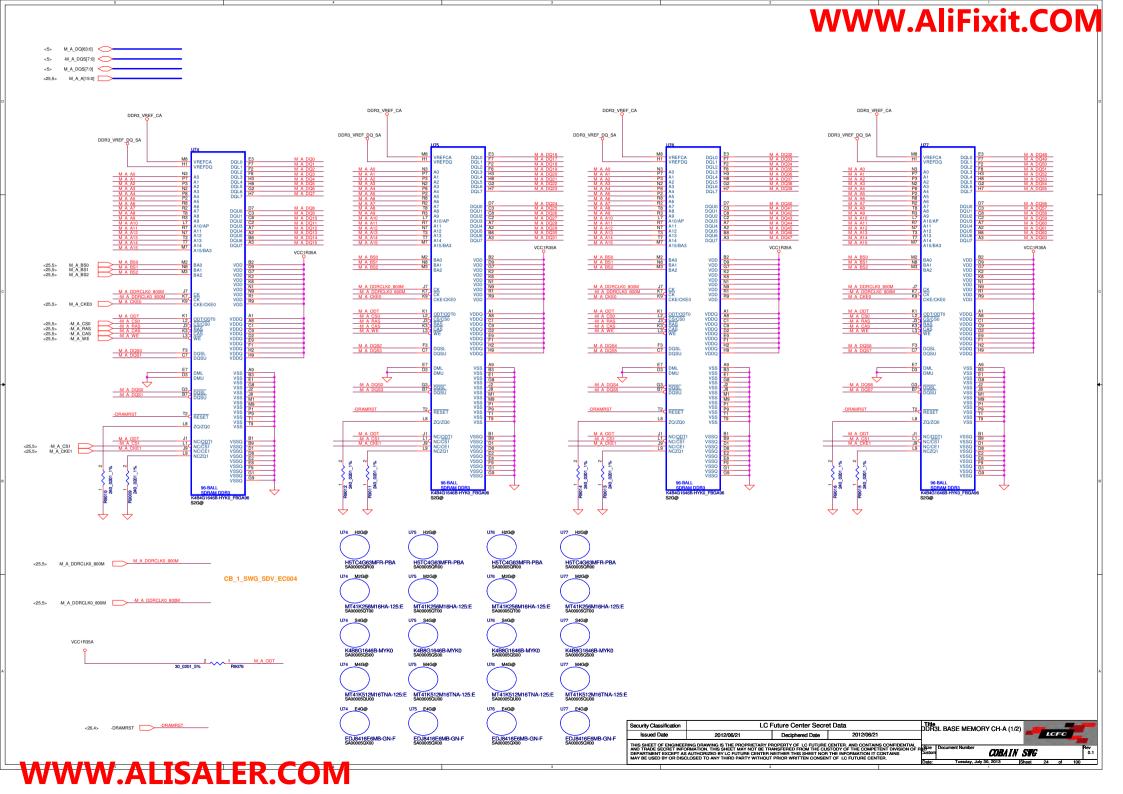


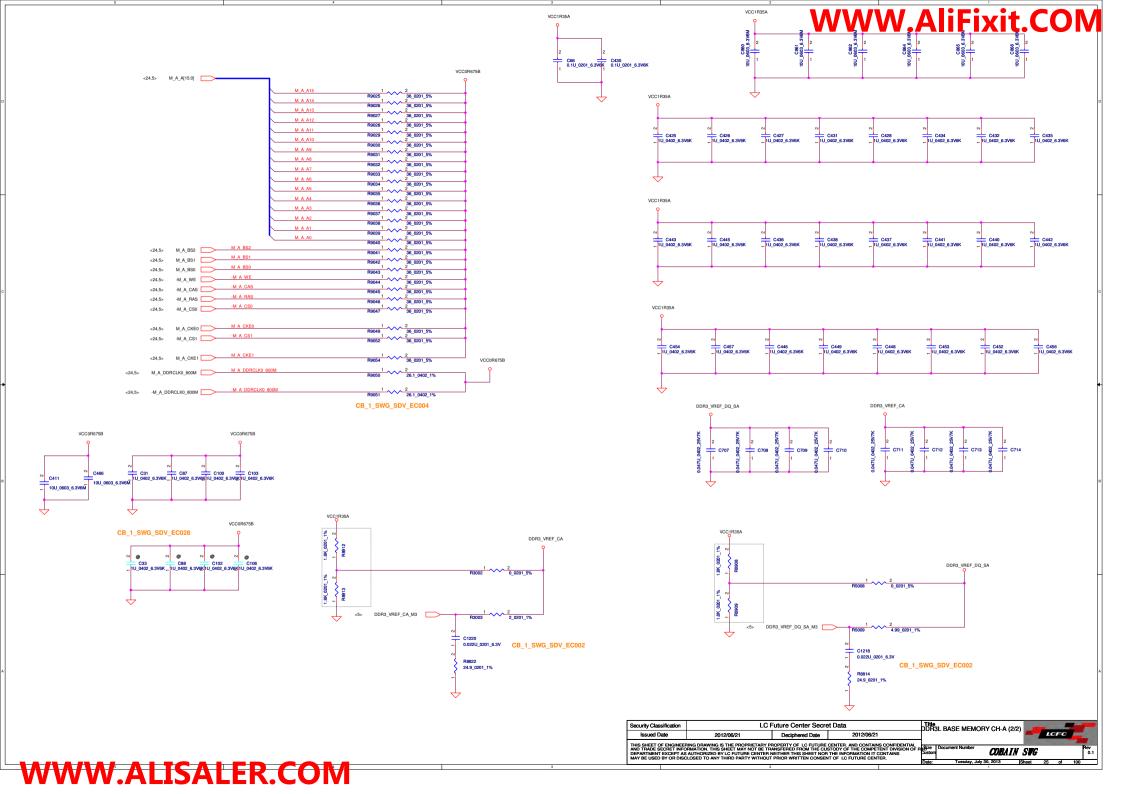
U49 SPI ROM

vPro	Model (16MB)	Non-	vPro Model (8MB)
WINBOND	W25Q128FVSIQ	WINBOND	W25Q64FVSSIQ
MACRONIX	MX25L12875FM2I-10G	MACRONIX	MX25L6475EM2I-10G
MICRON	N25Q128A13ESEC0F	MICRON	N25Q064A13ESEC0F

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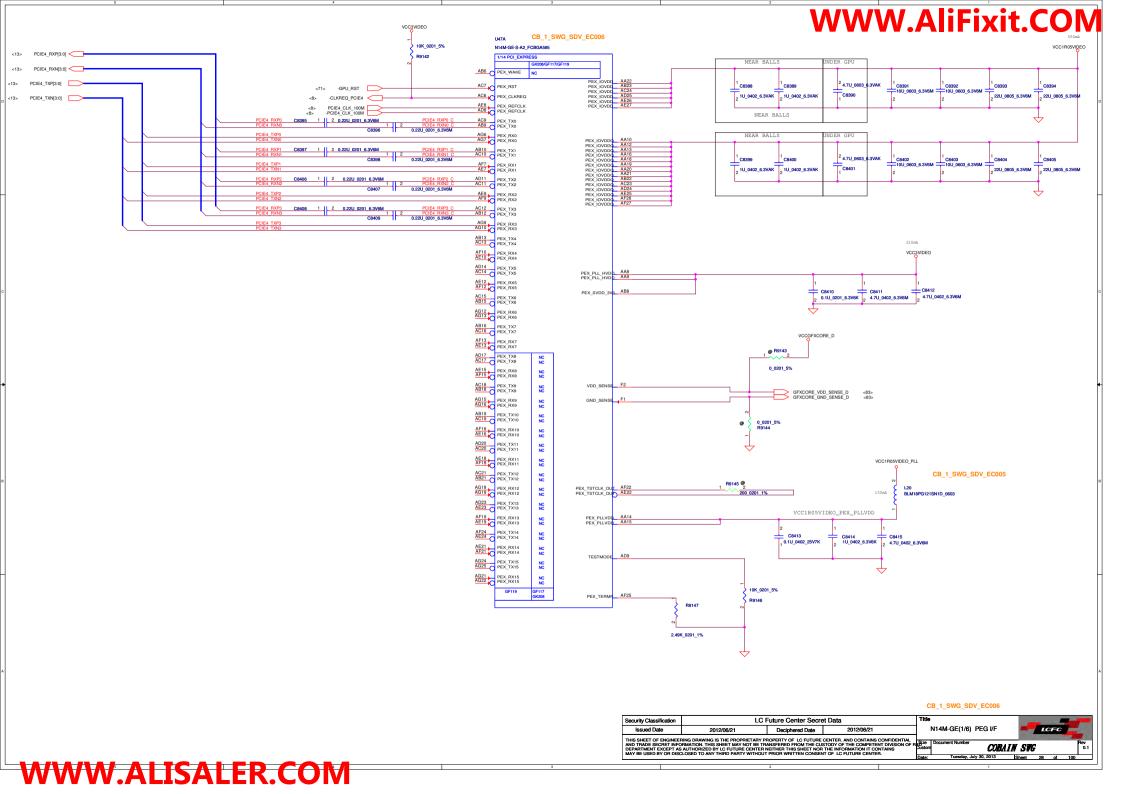


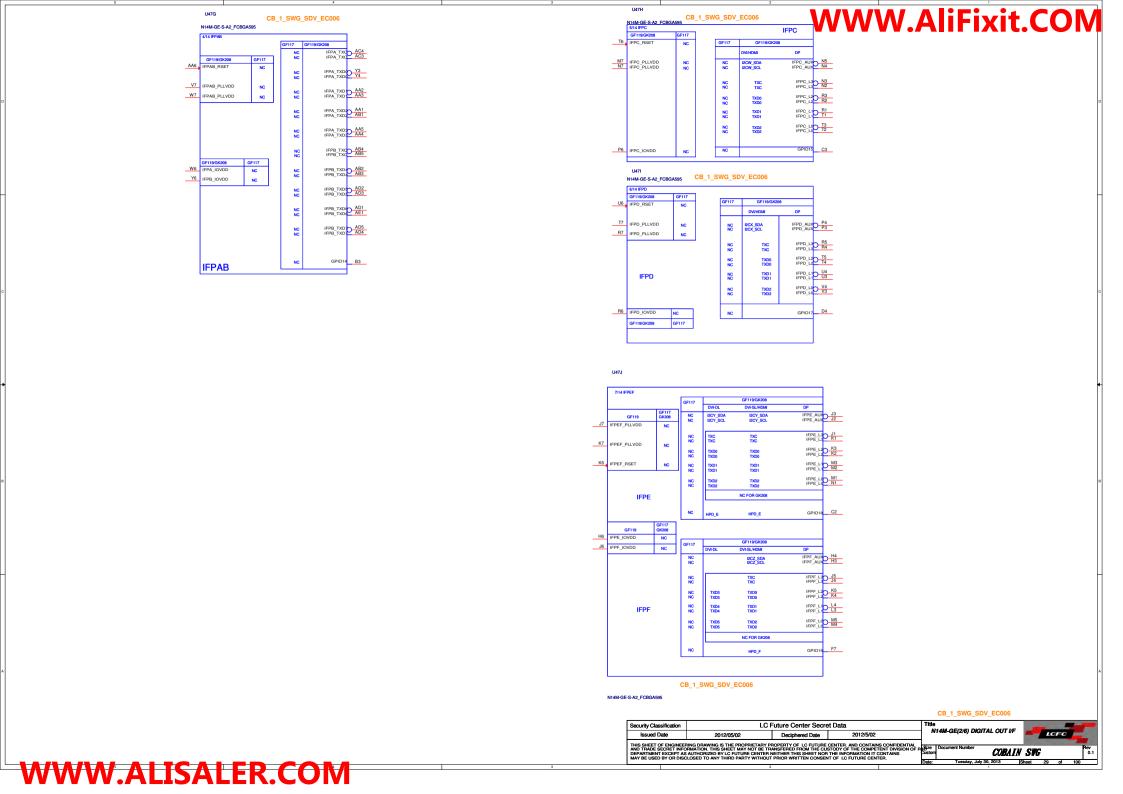


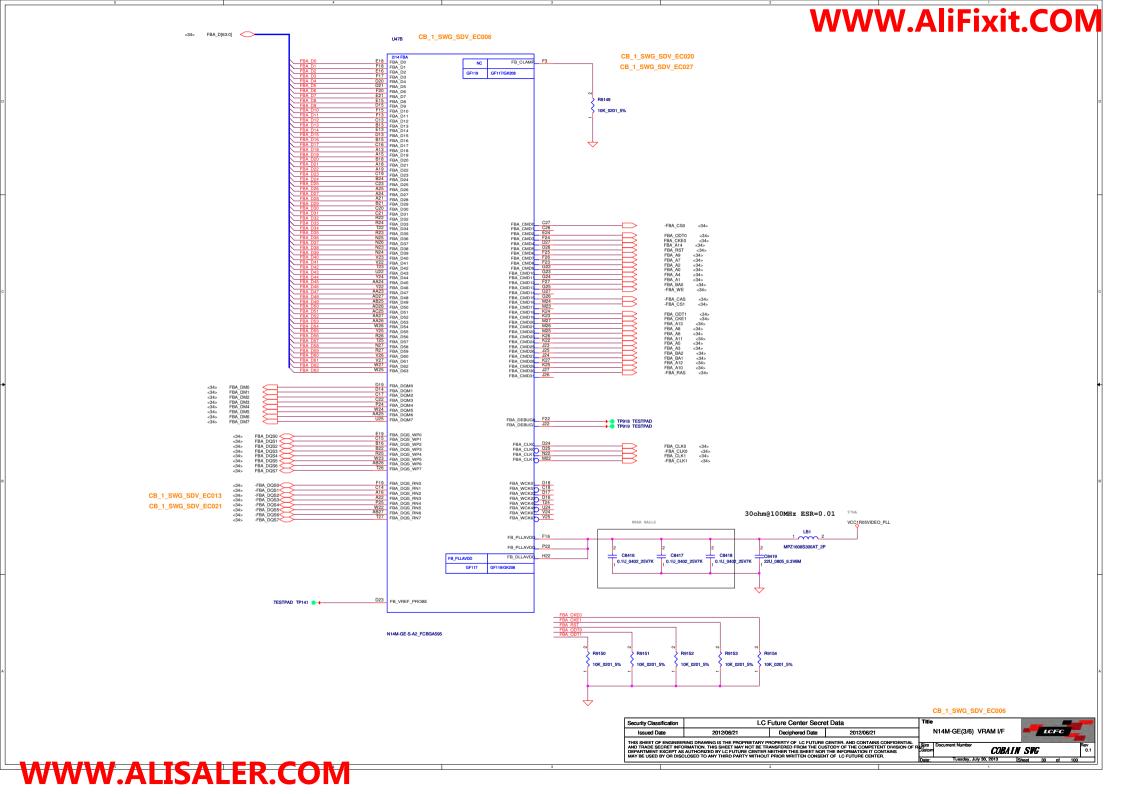
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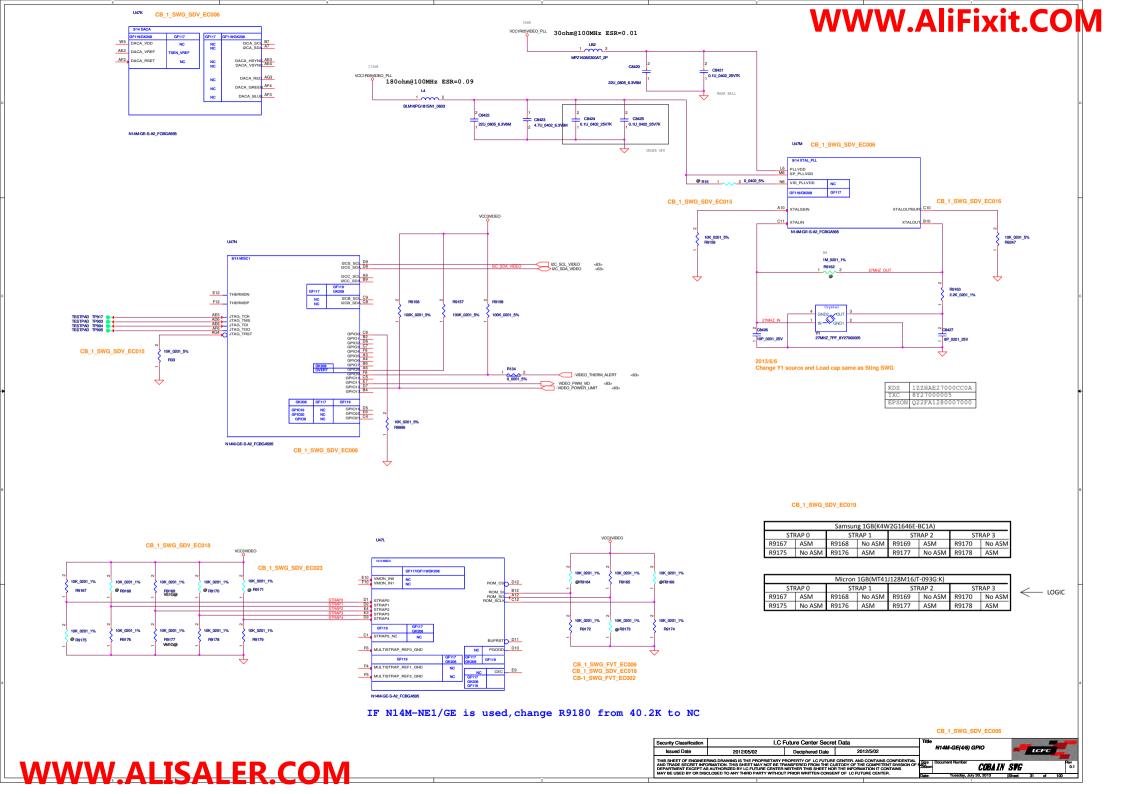
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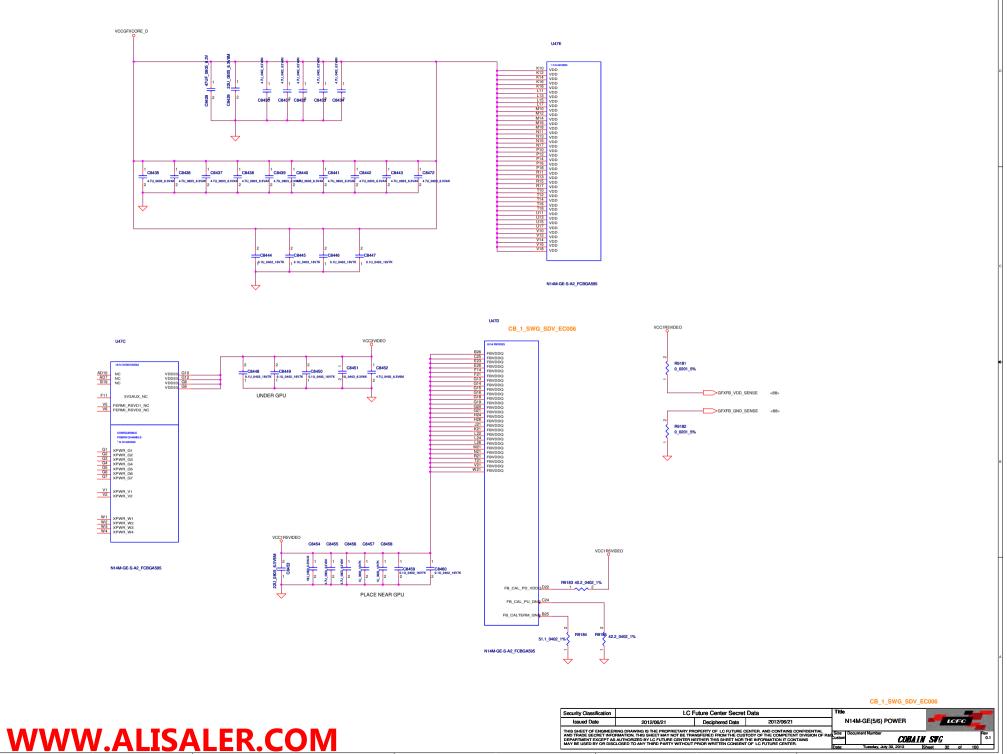
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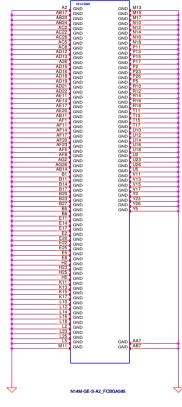






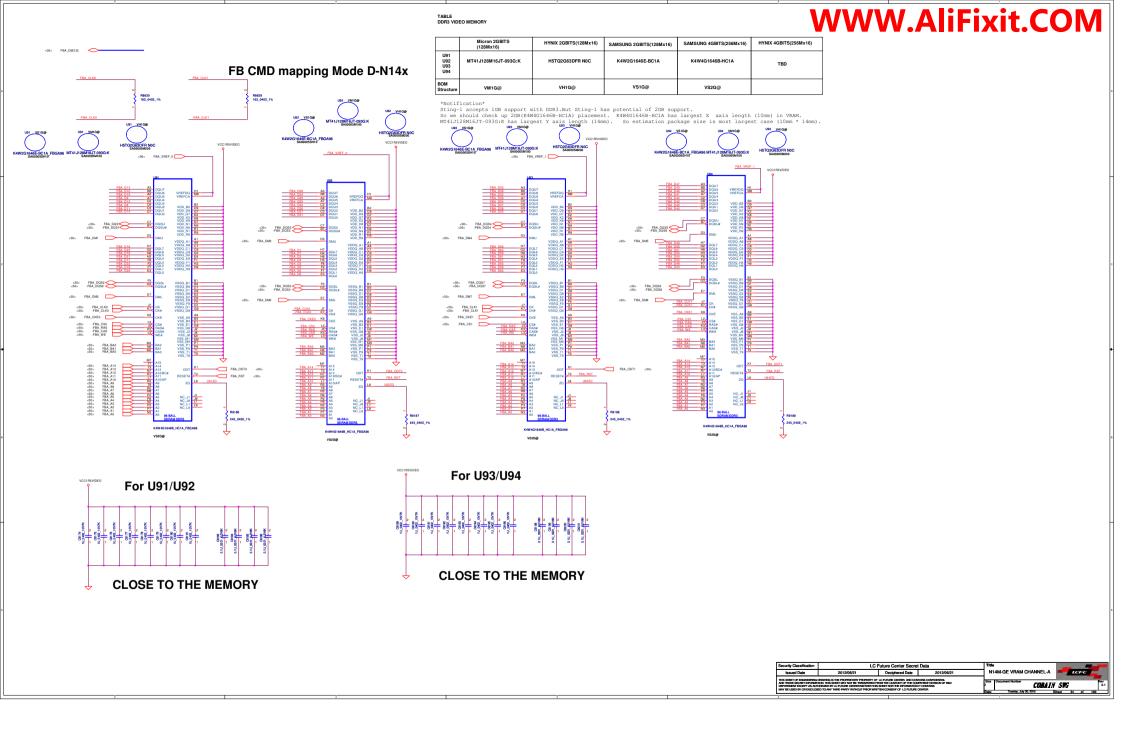






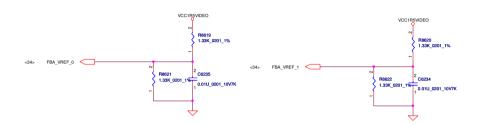
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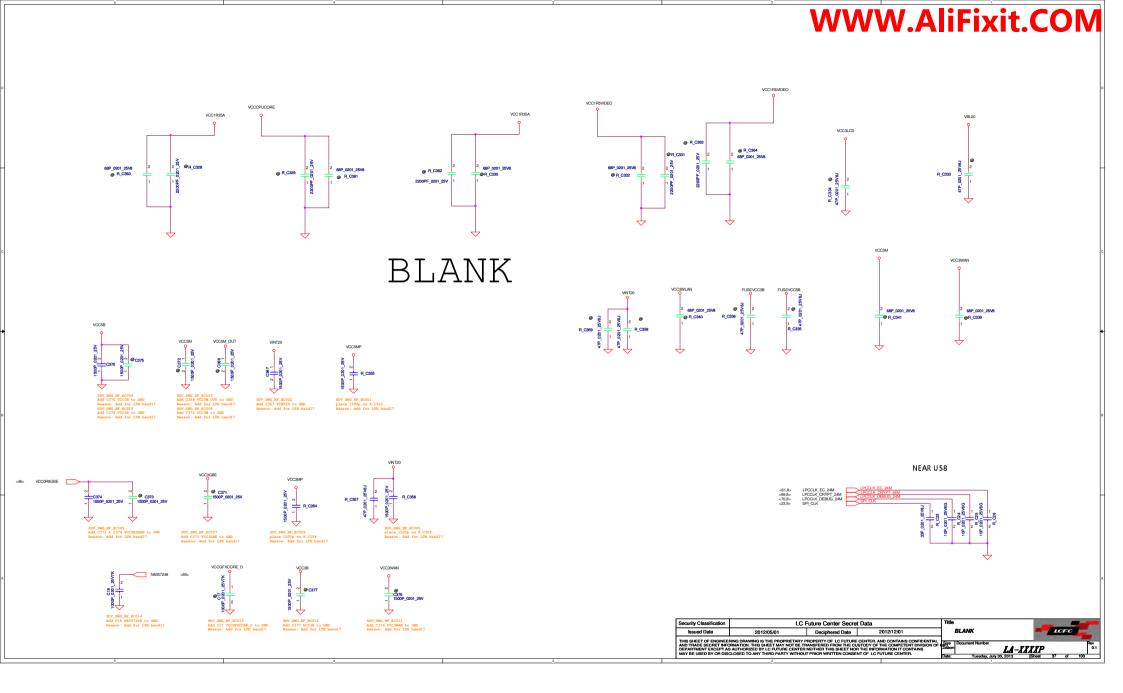
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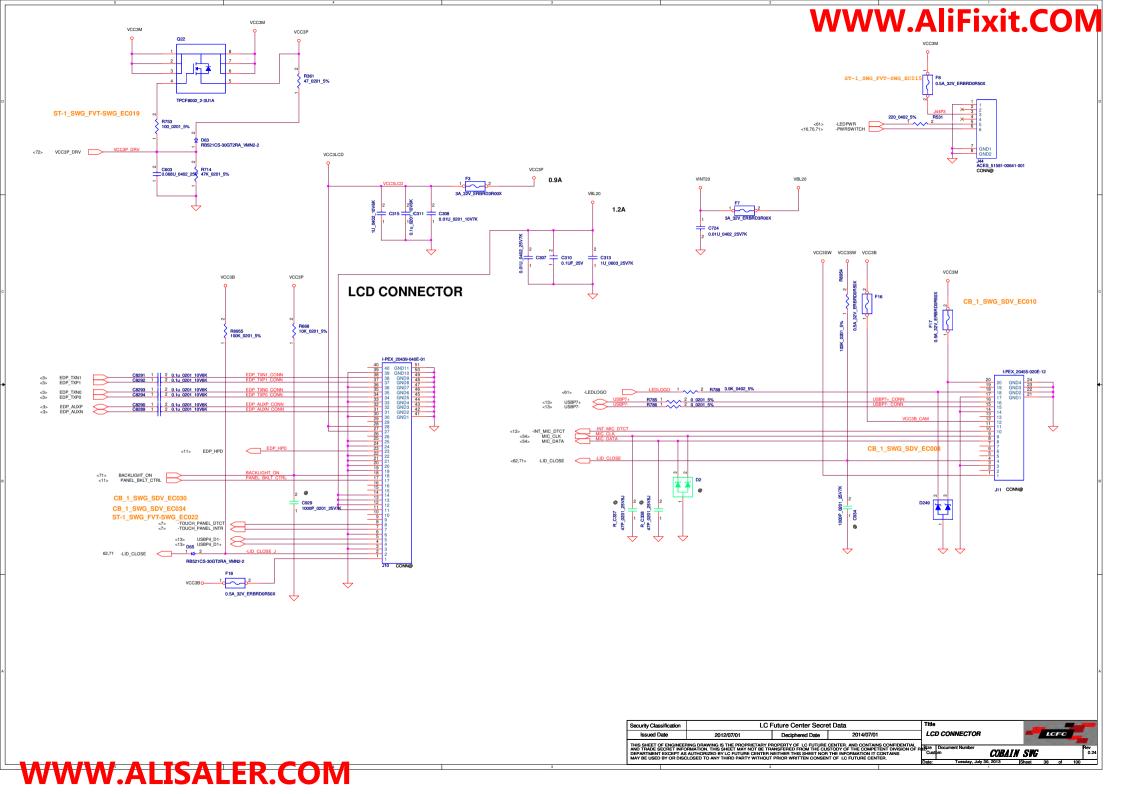
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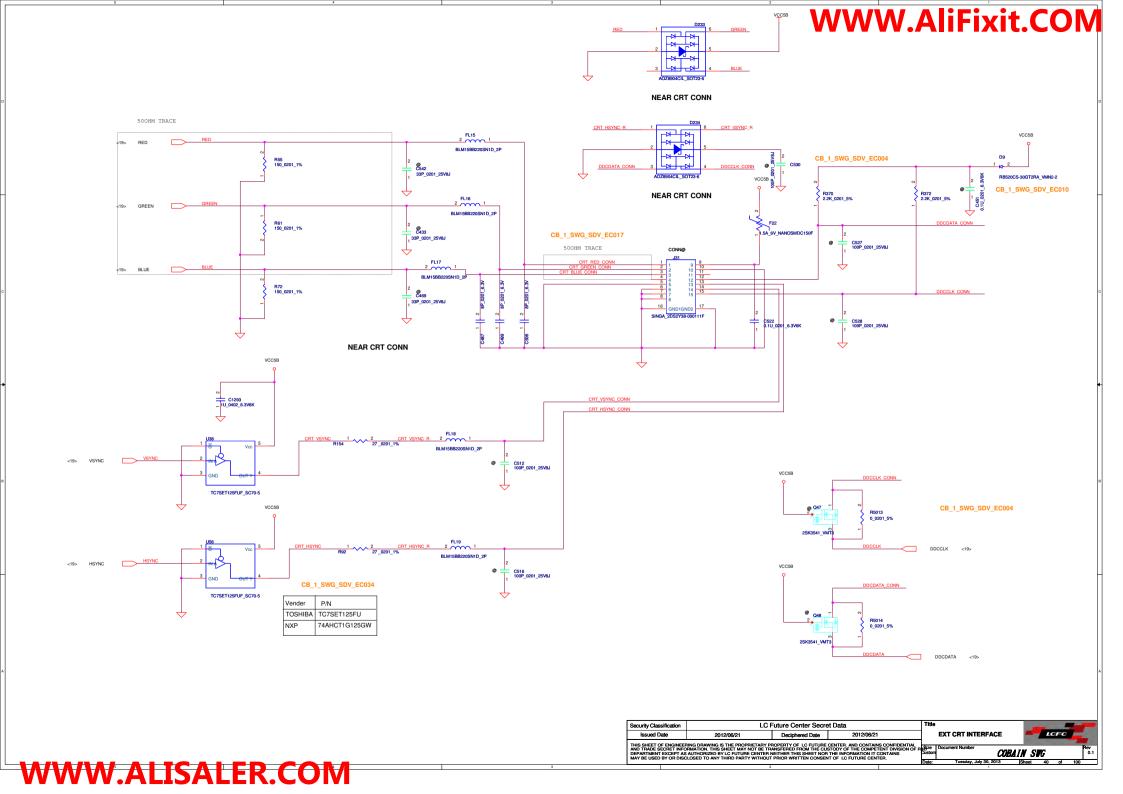


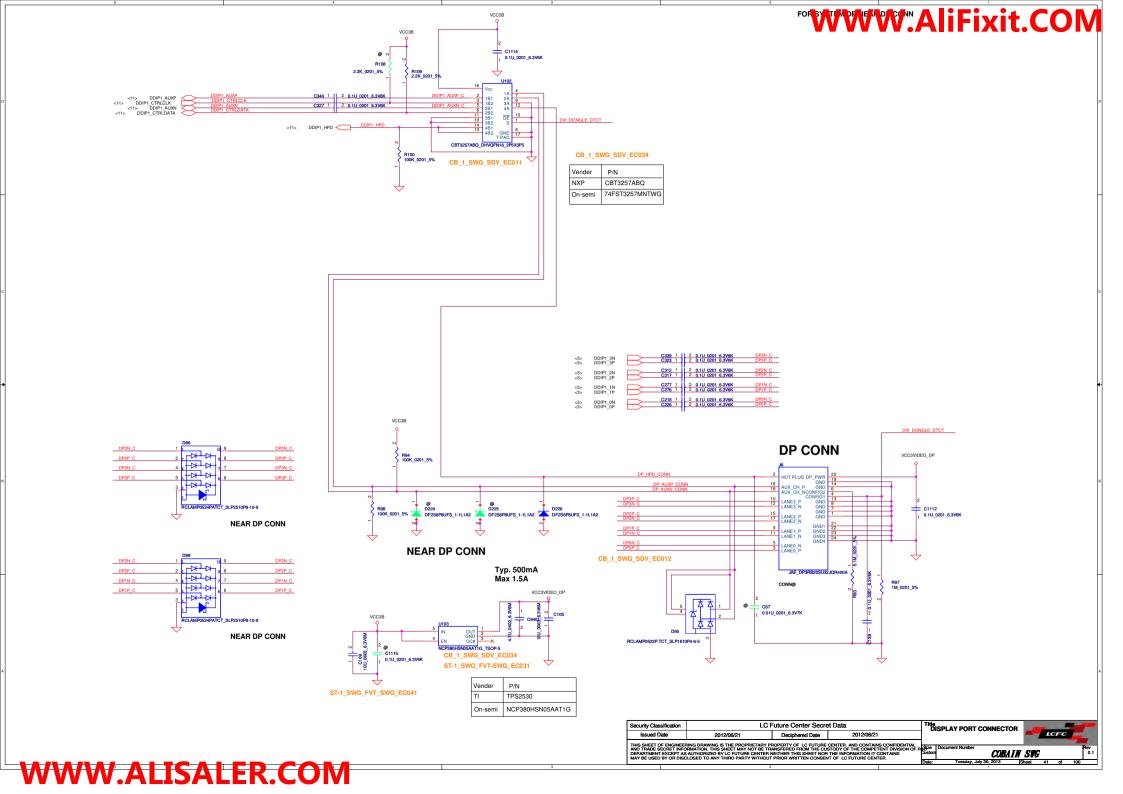
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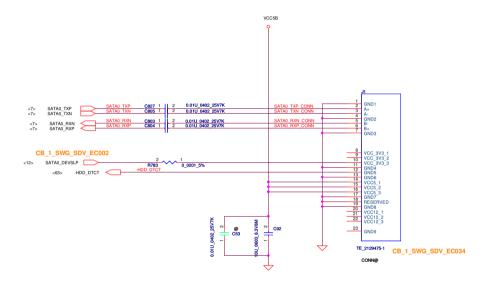
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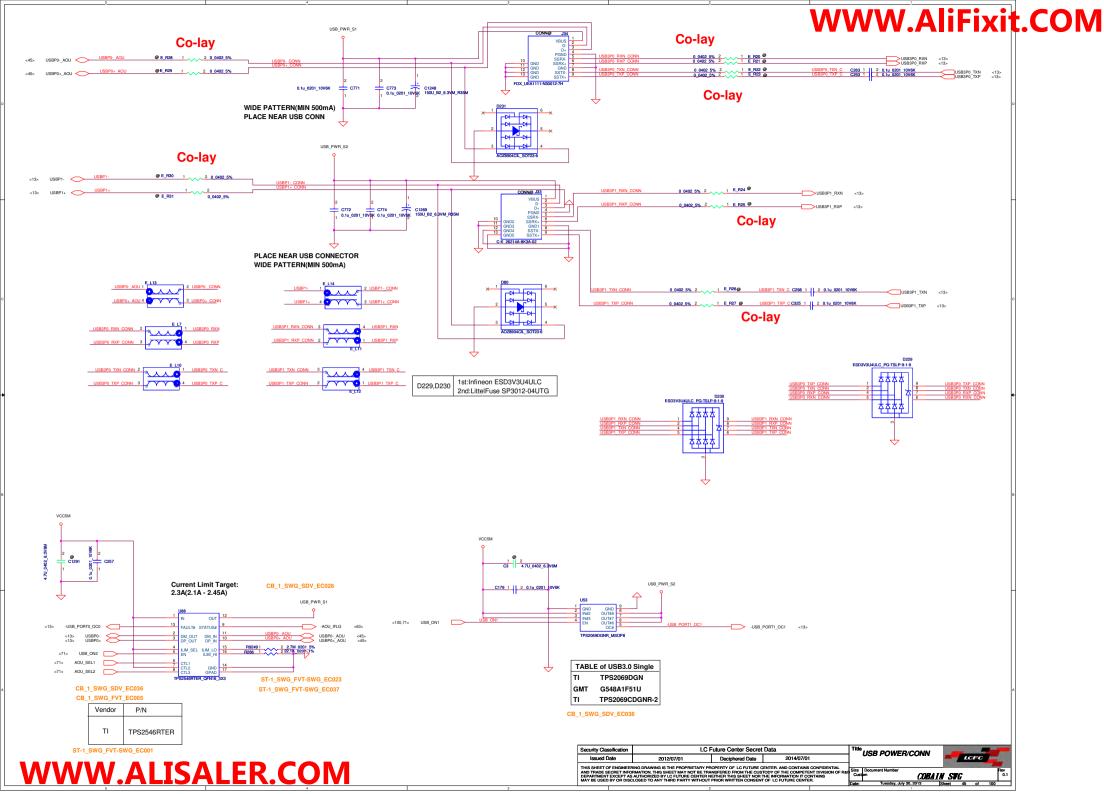


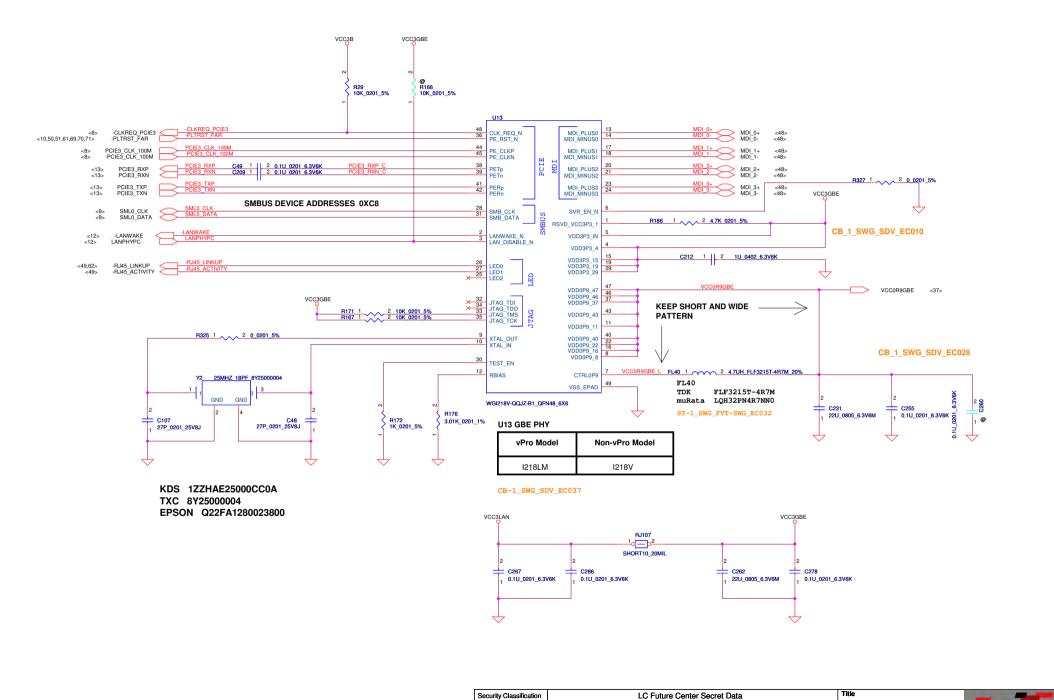
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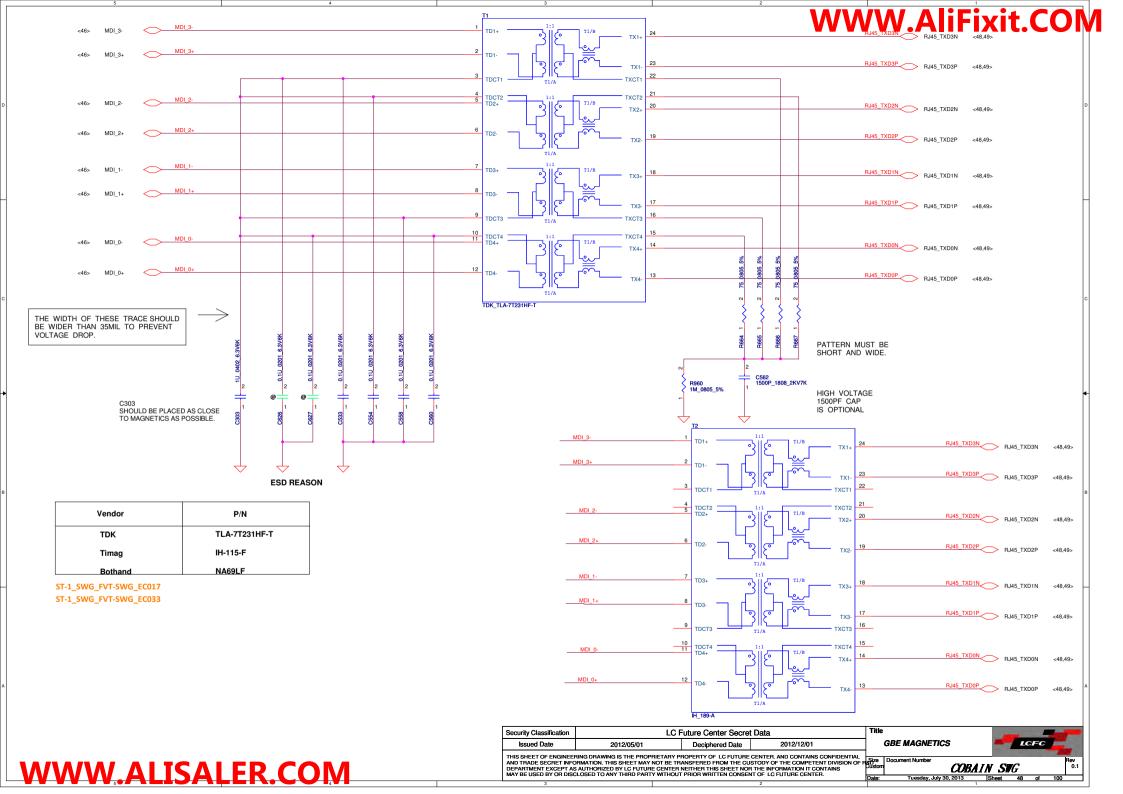
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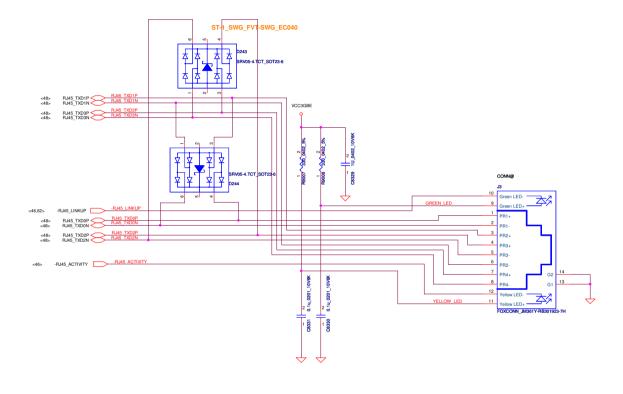
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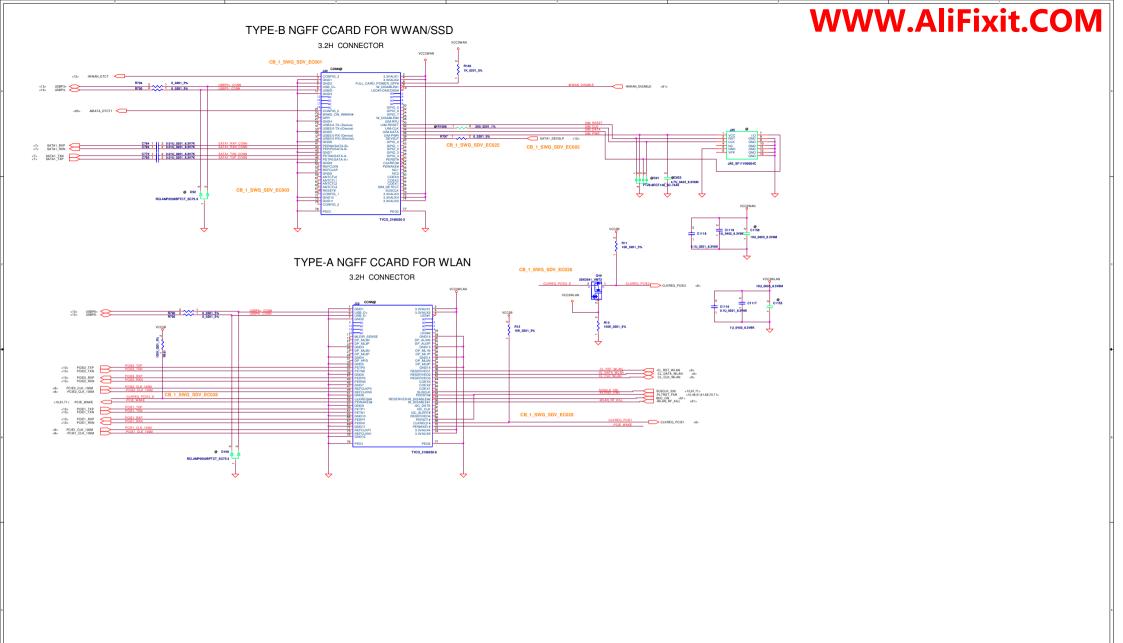
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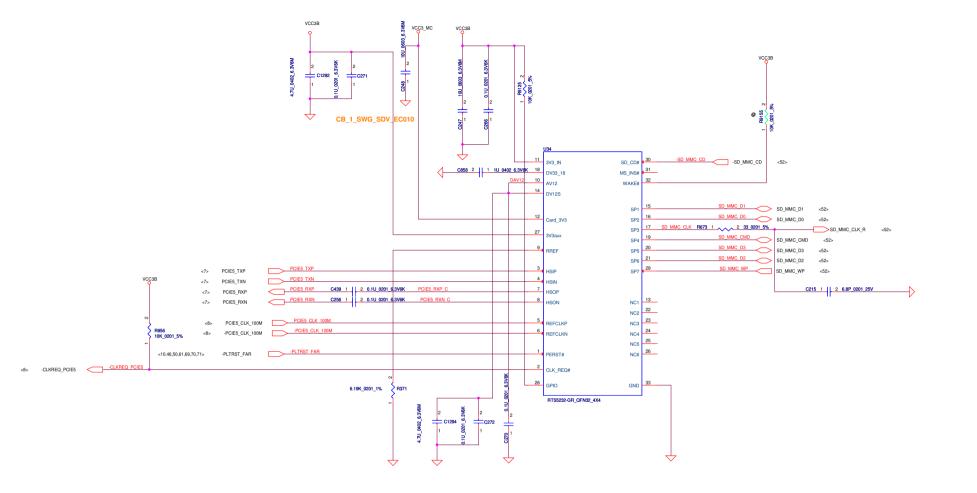
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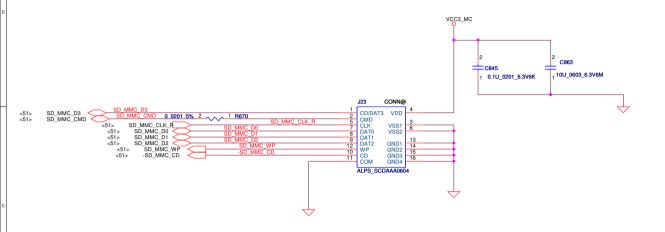




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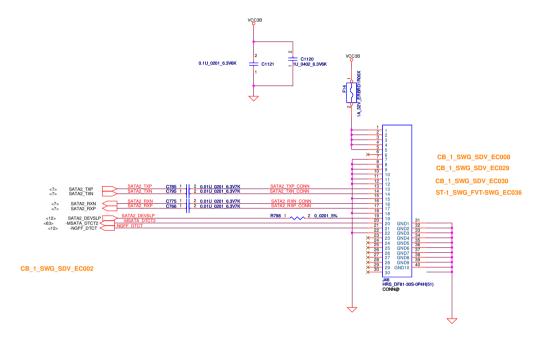
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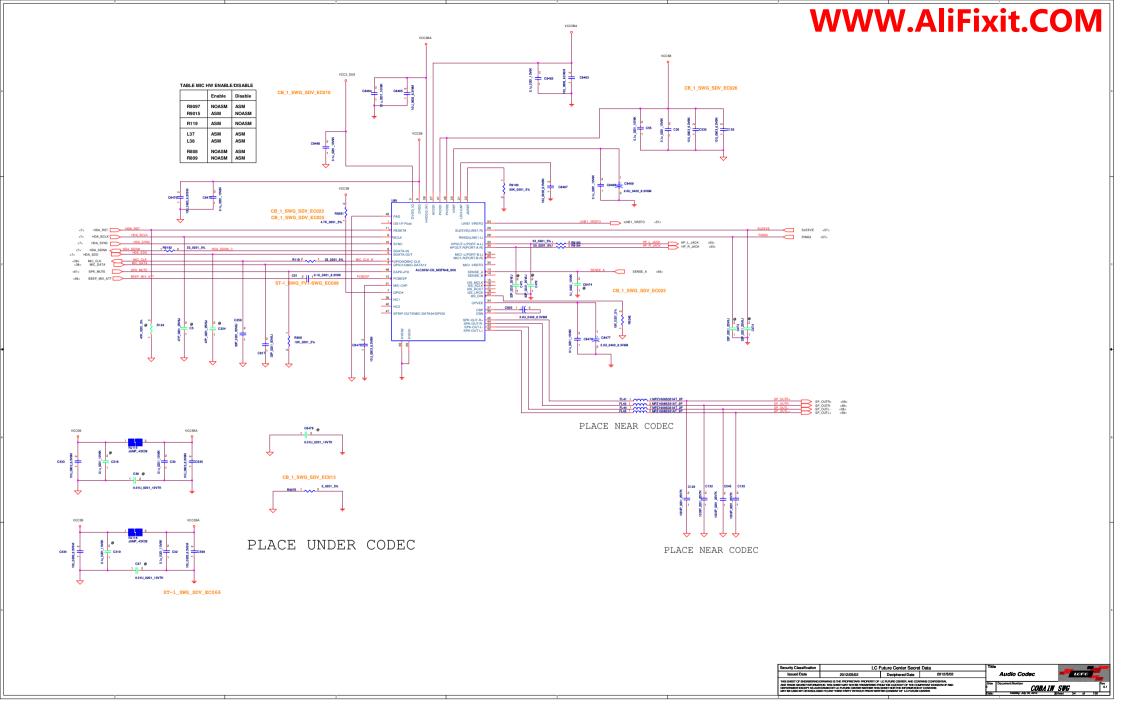
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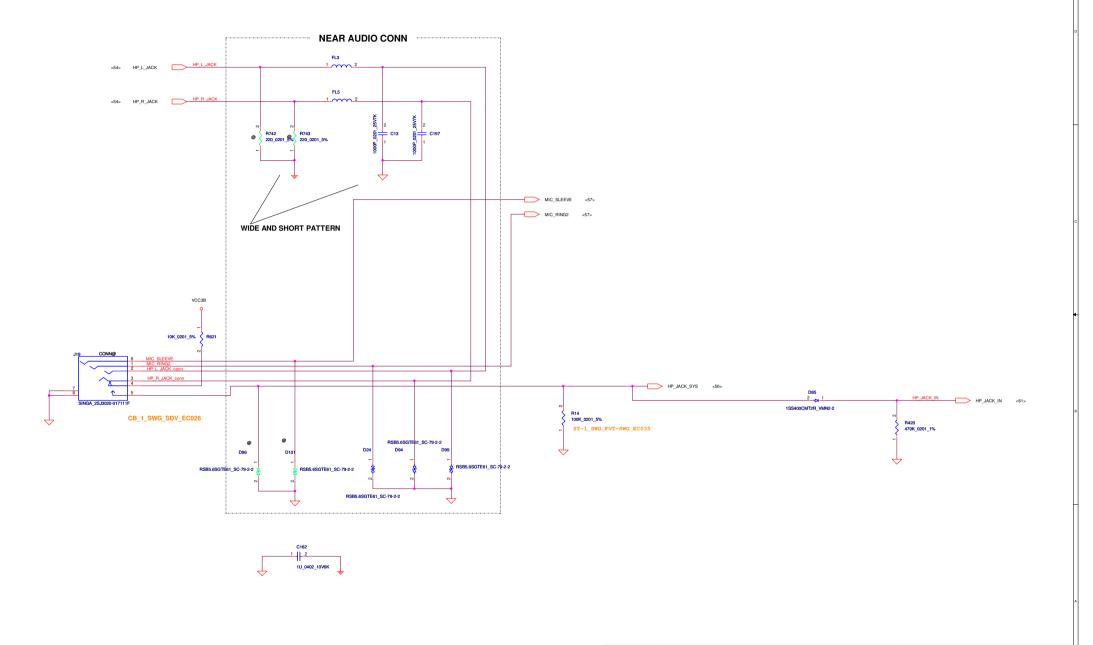
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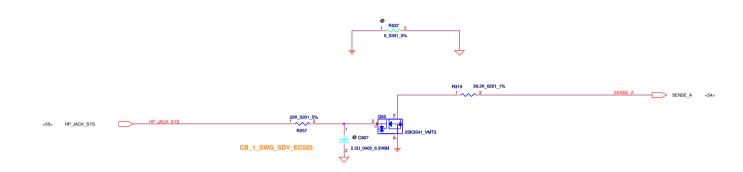




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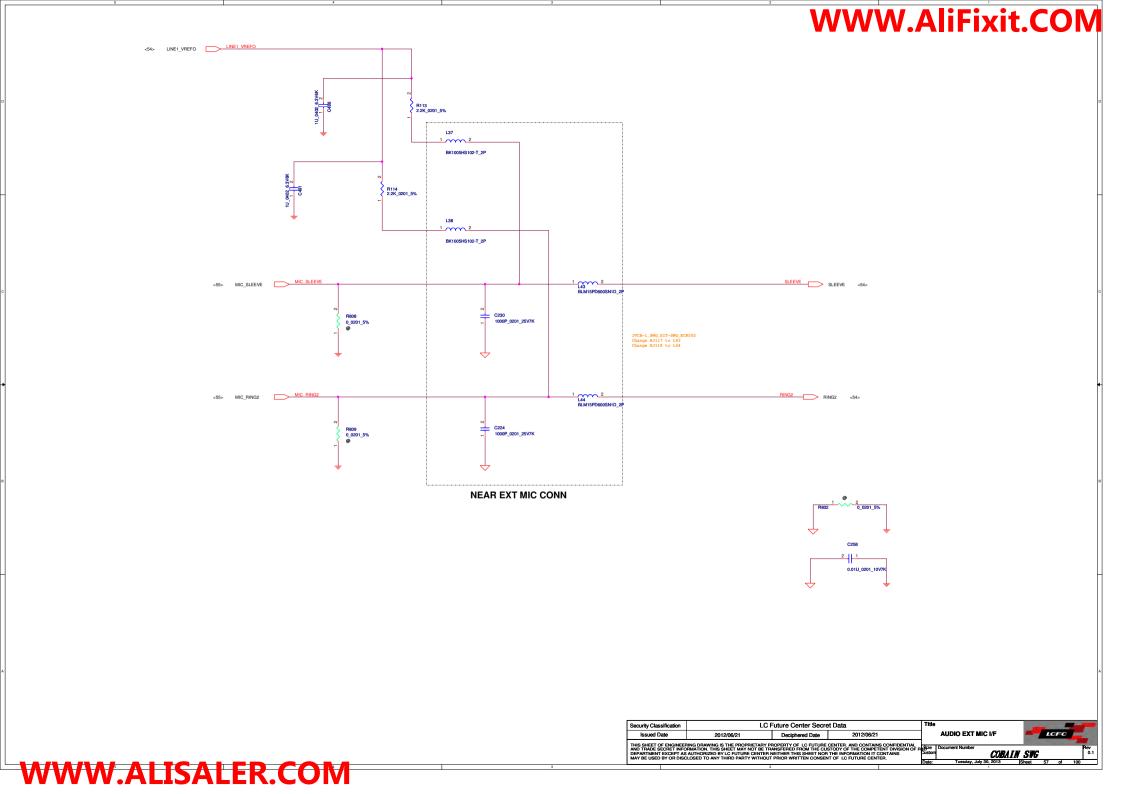
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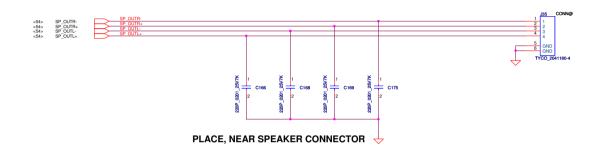


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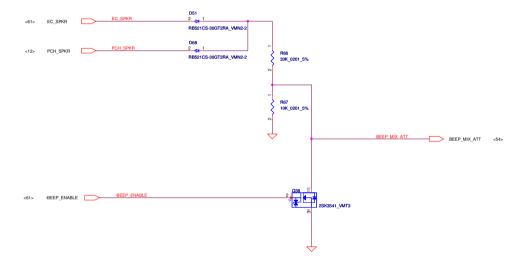
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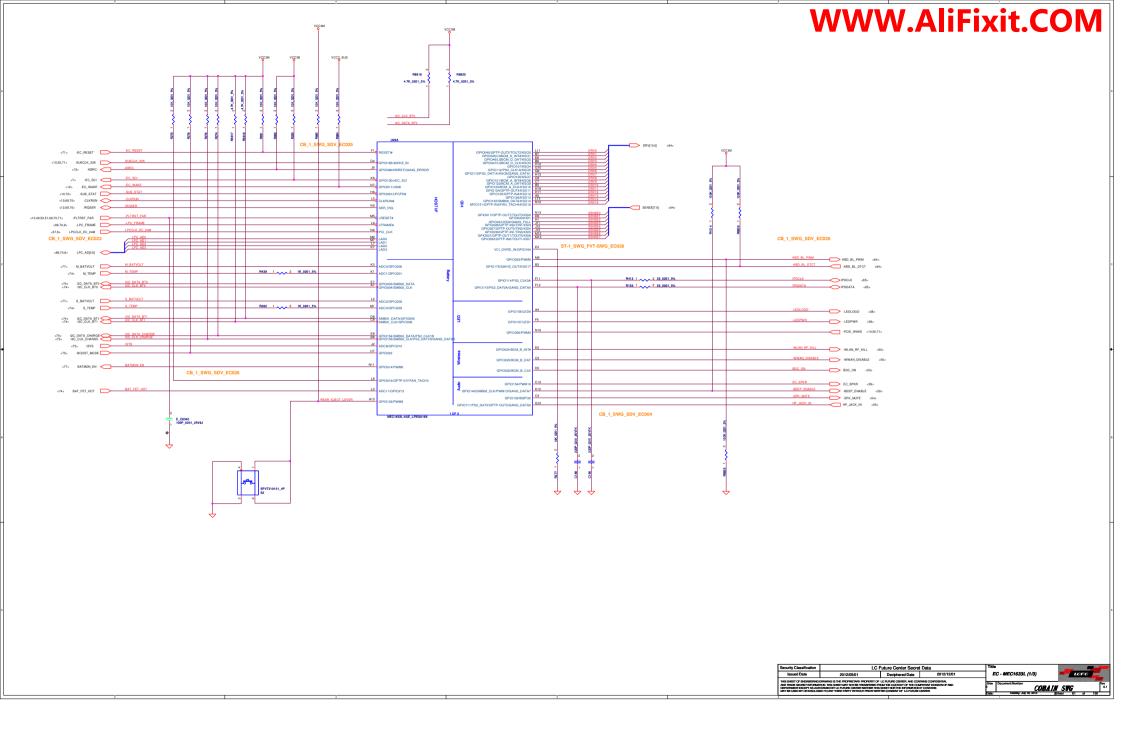
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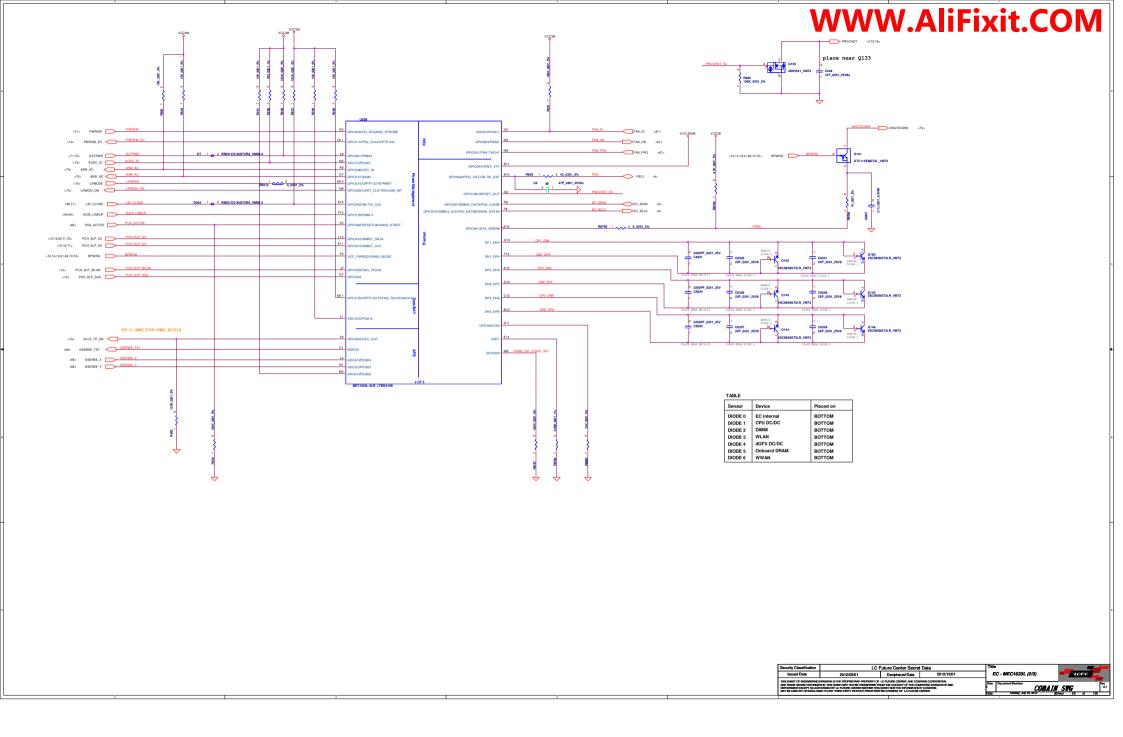


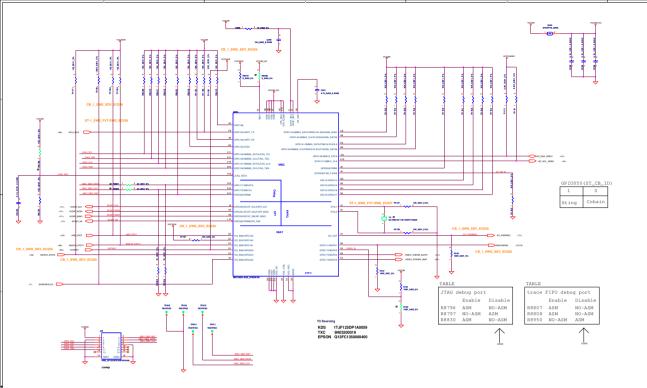
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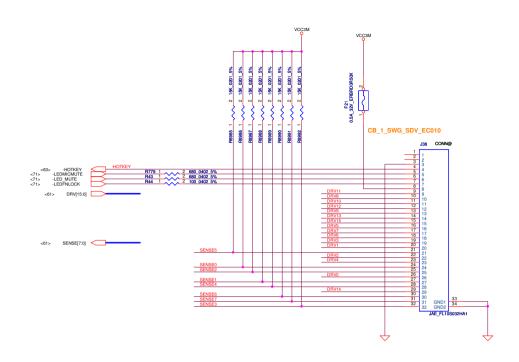
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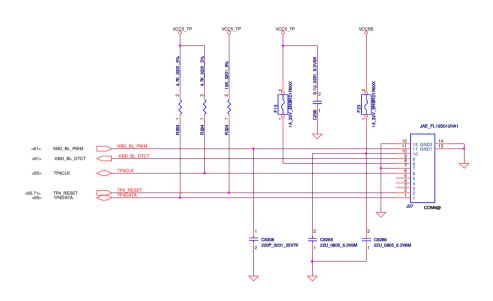




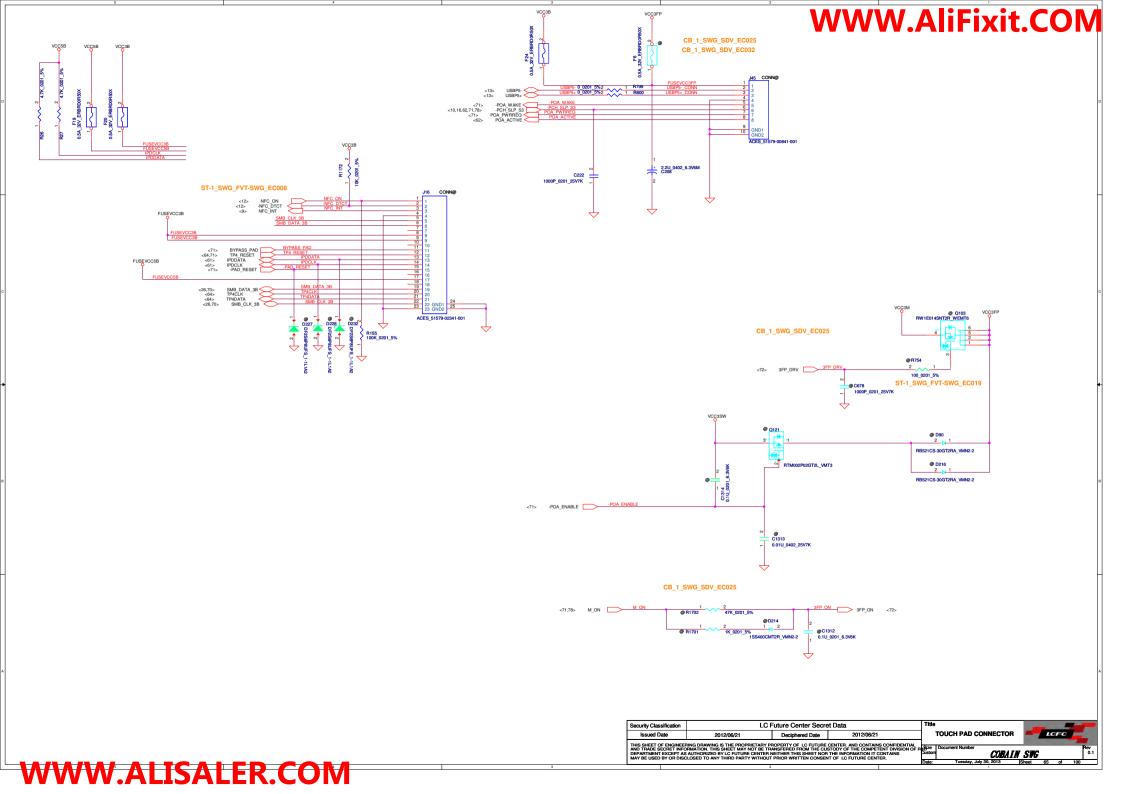


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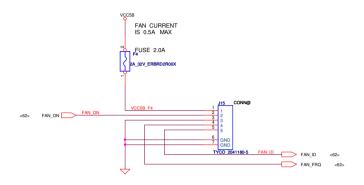


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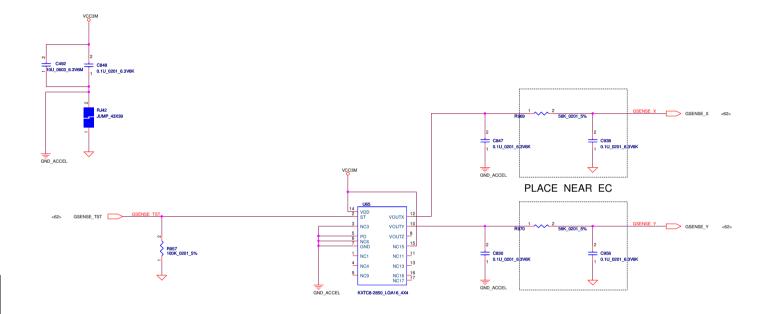
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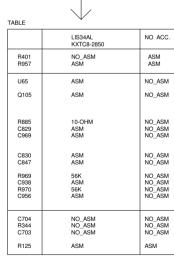
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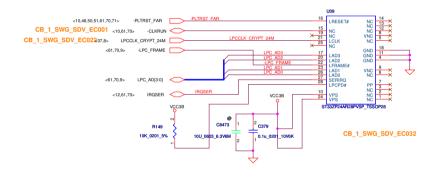
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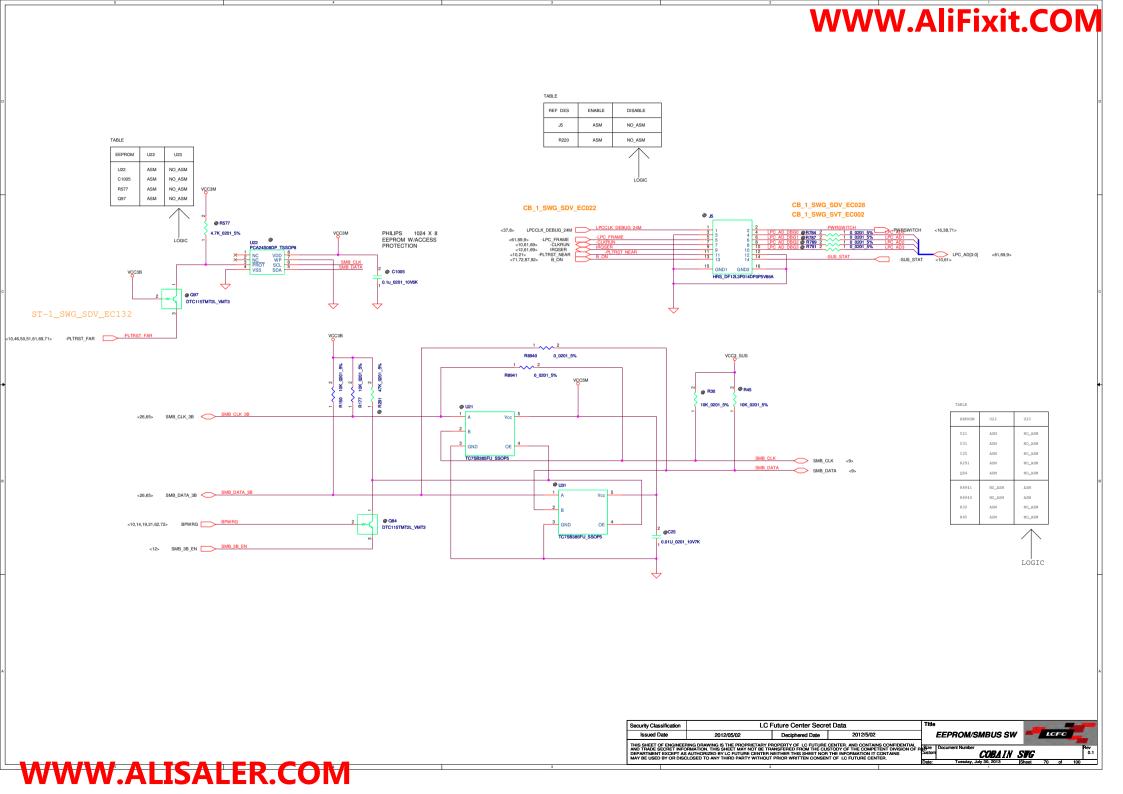




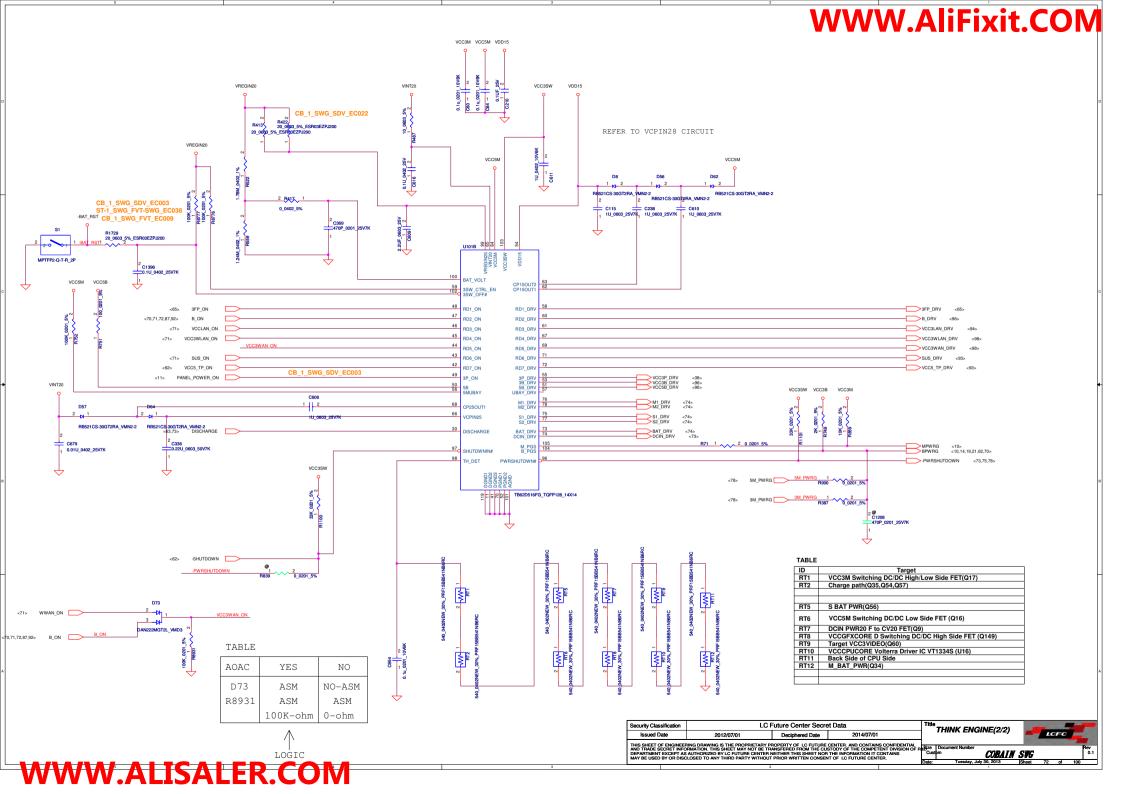
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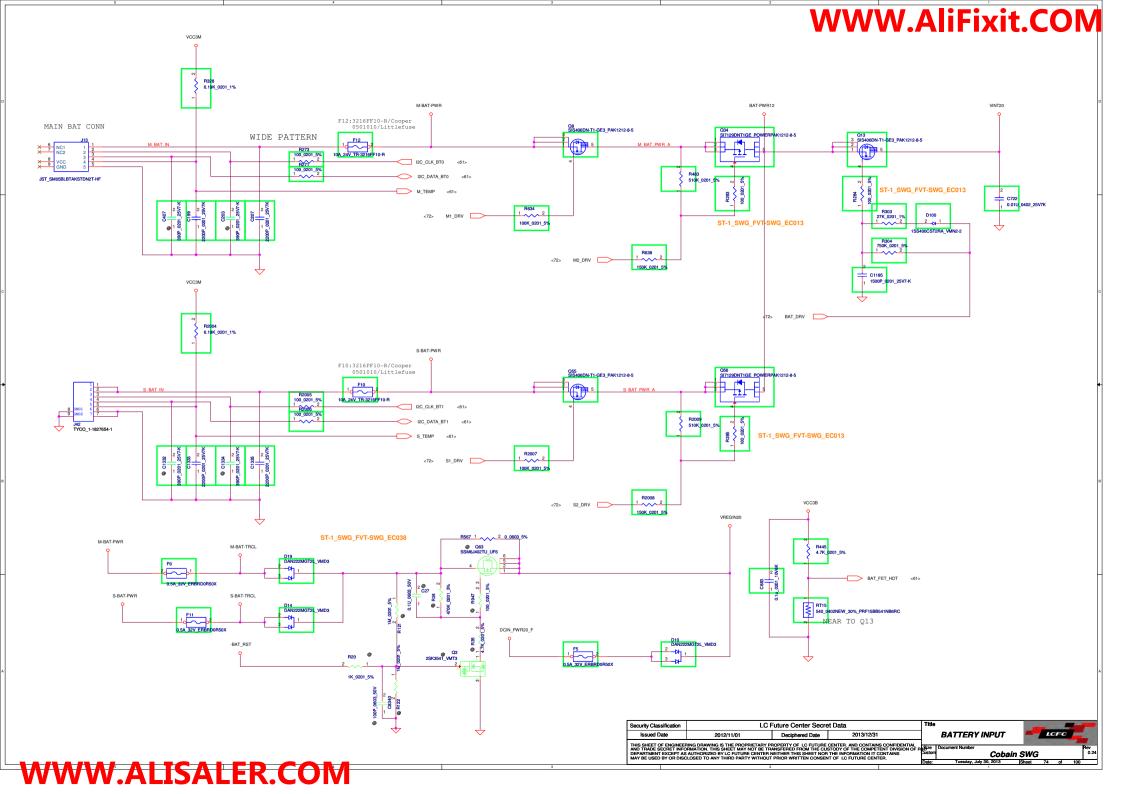
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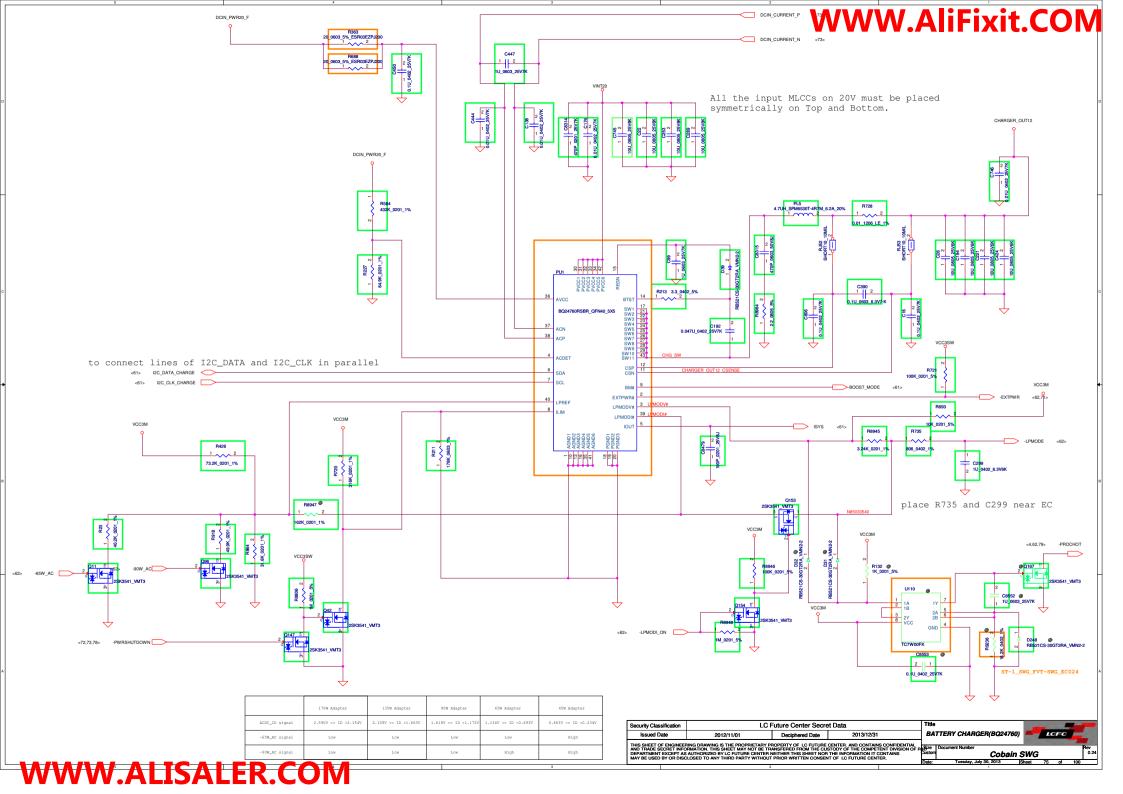


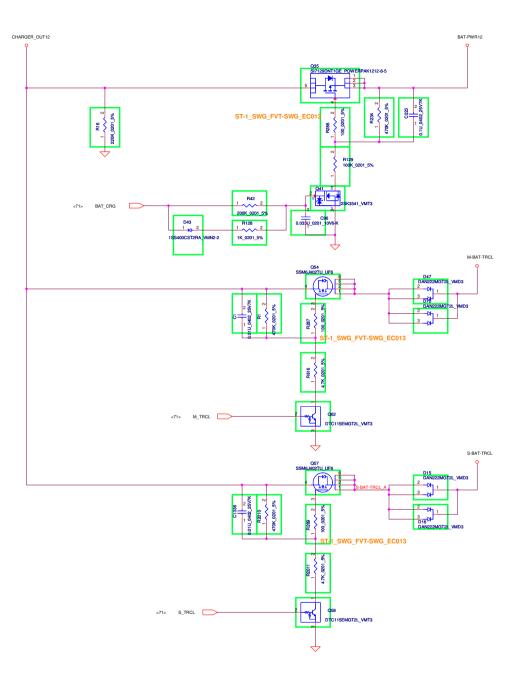
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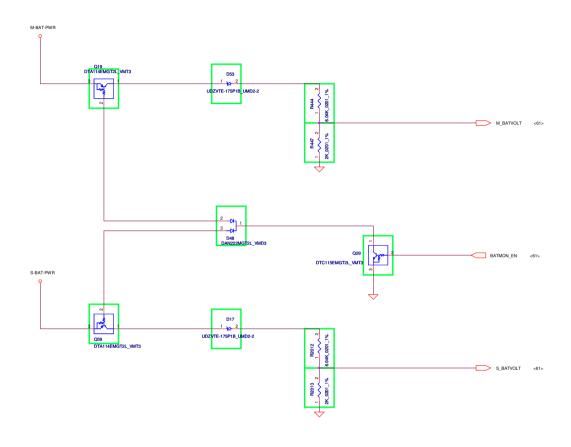
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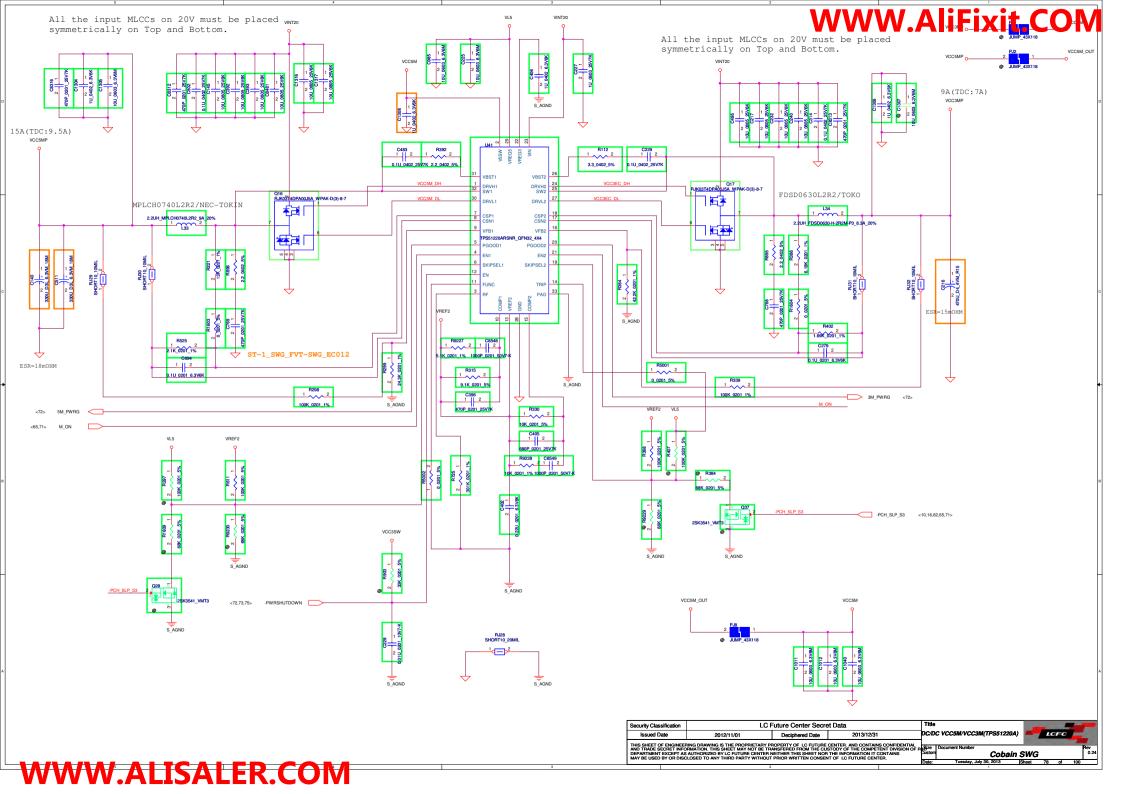


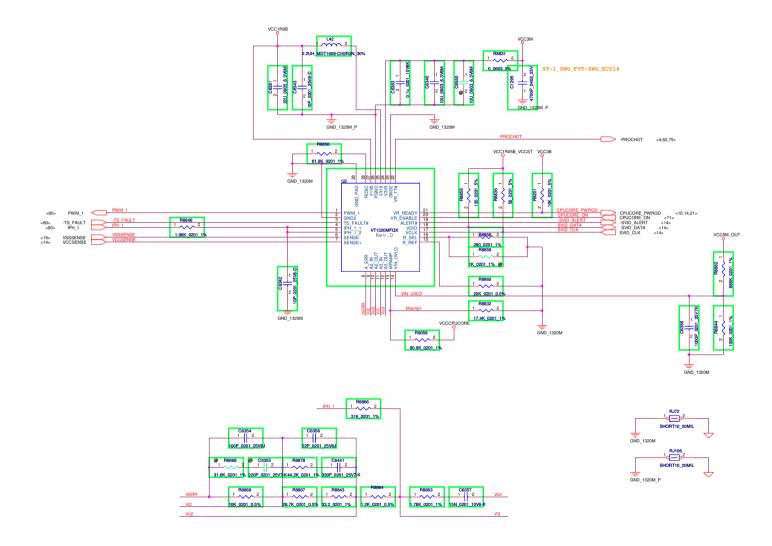


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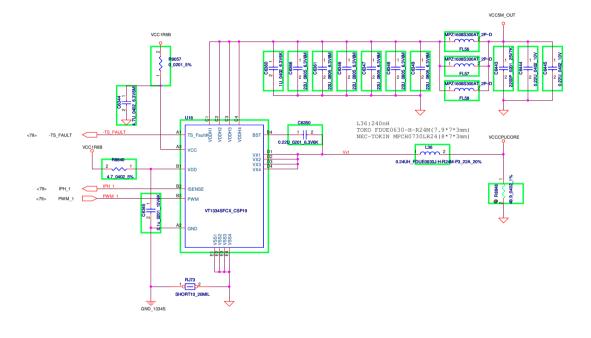


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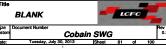


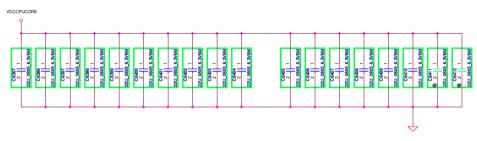
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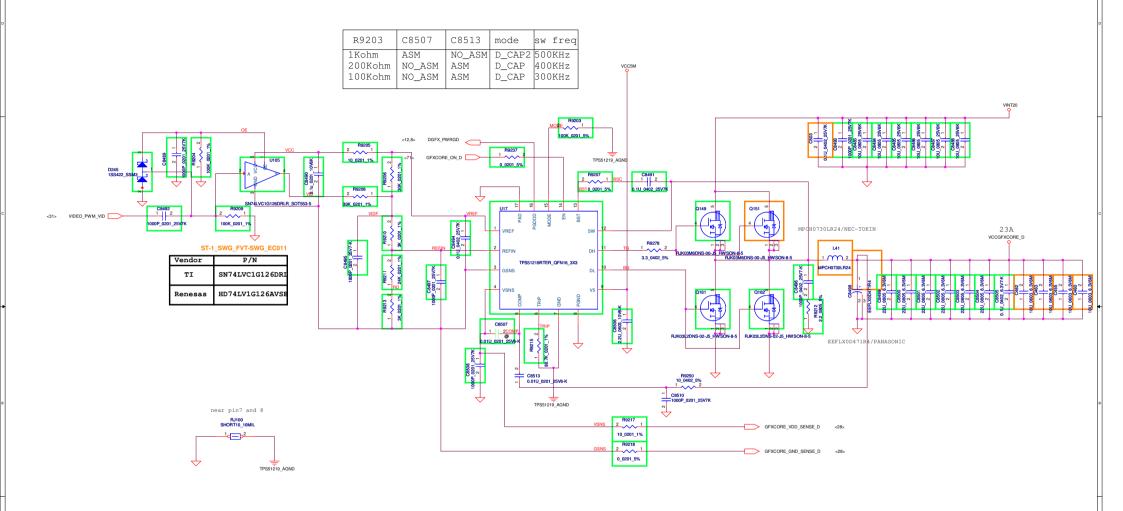


16pcs 22uF for VCCCPUCORE of 25W ULT CPU (14pcs 22uF for VCCCPUCORE of 15W ULT CPU)

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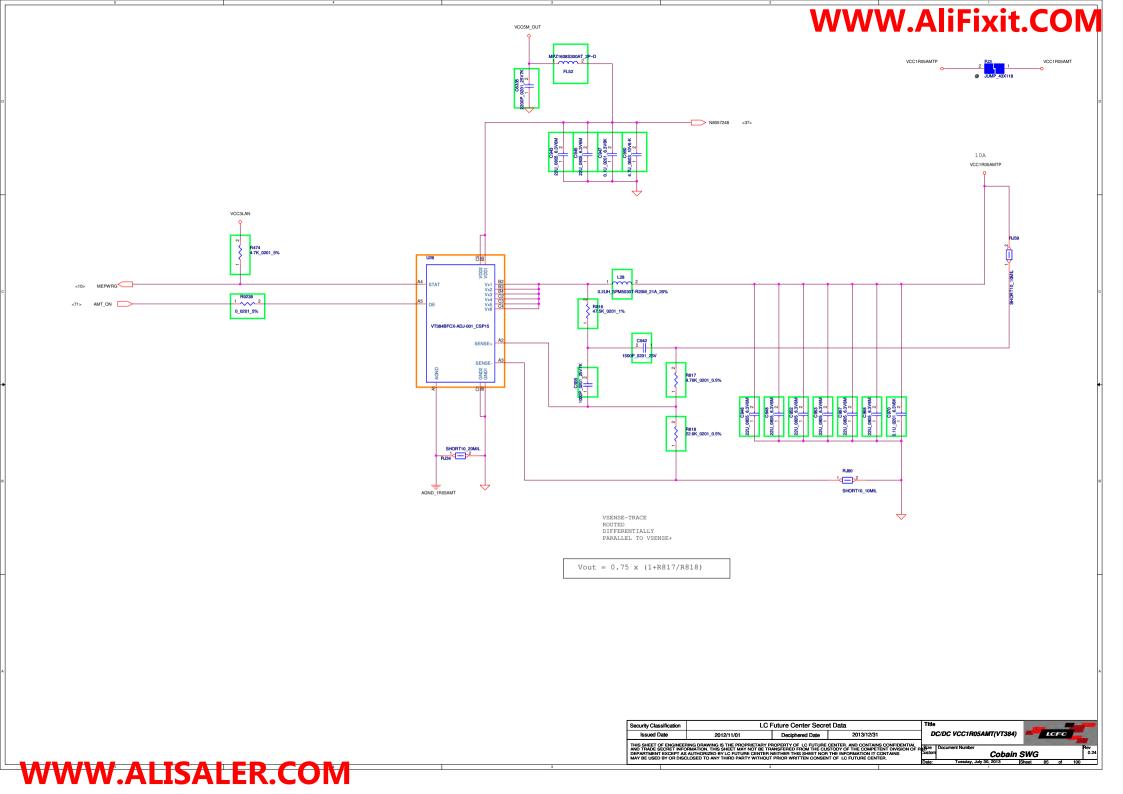
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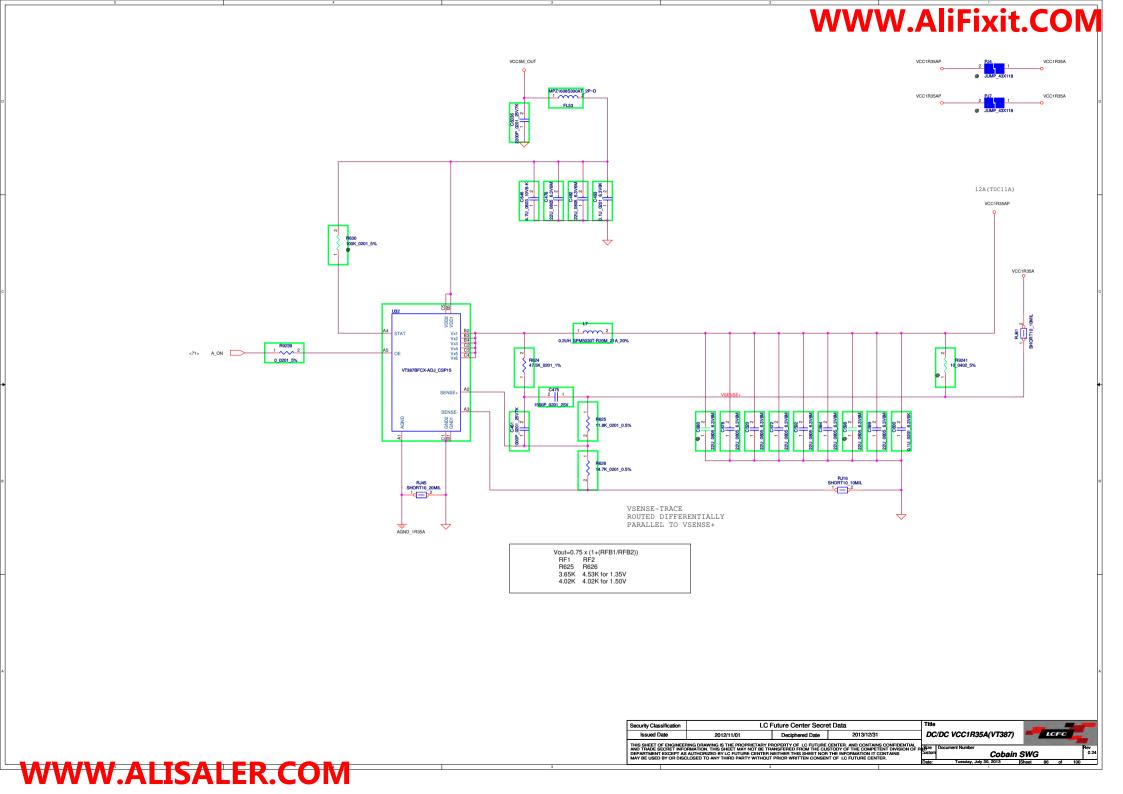
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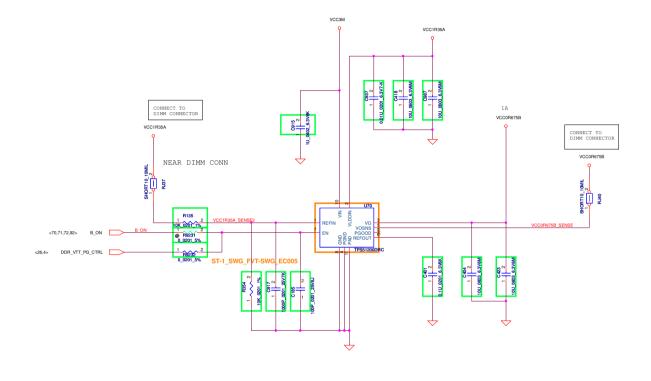


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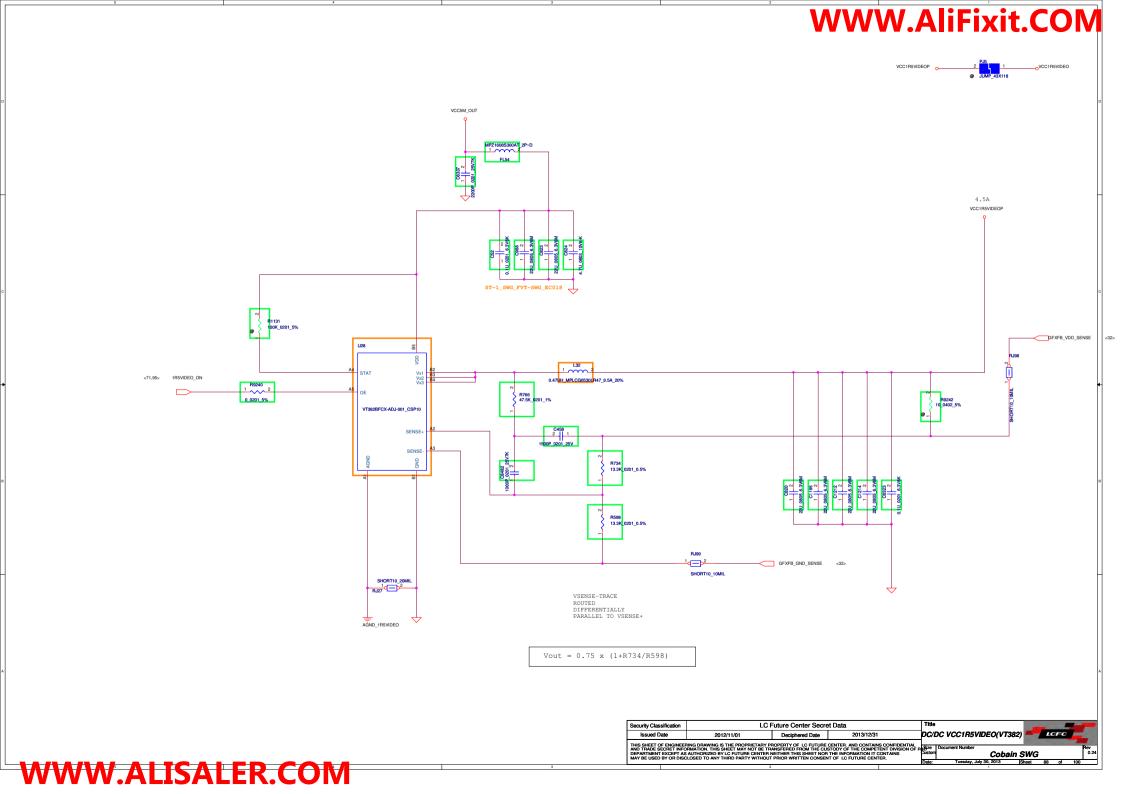
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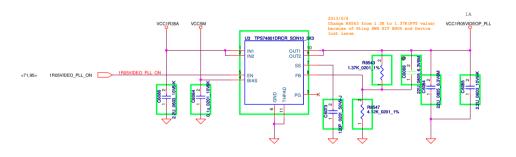






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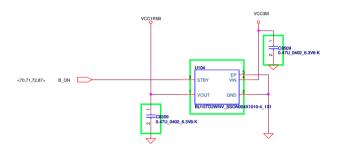




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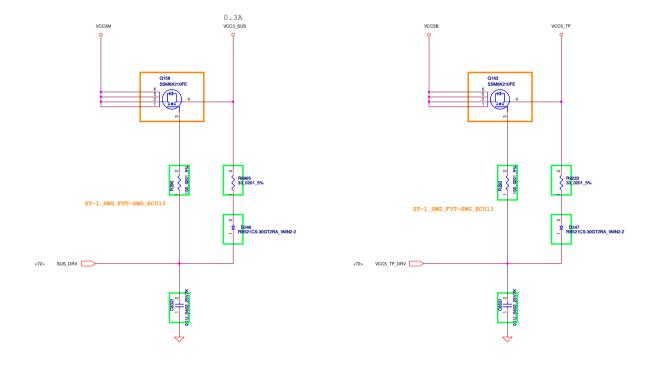
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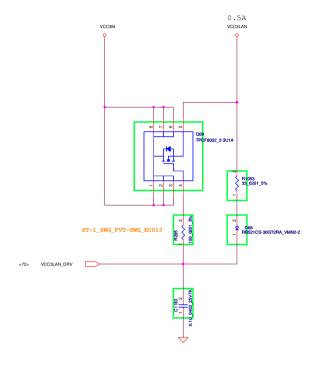
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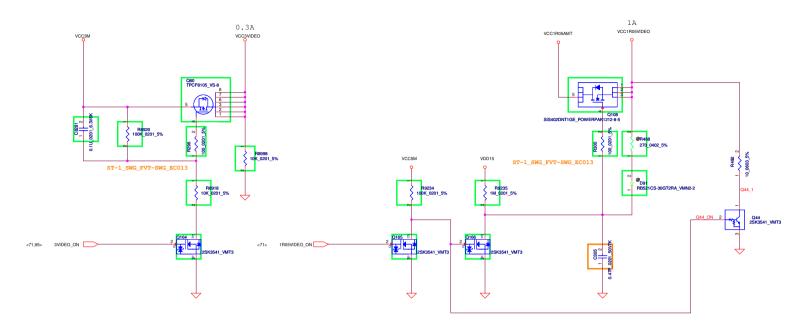


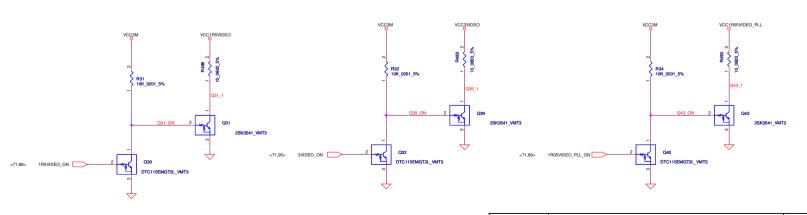


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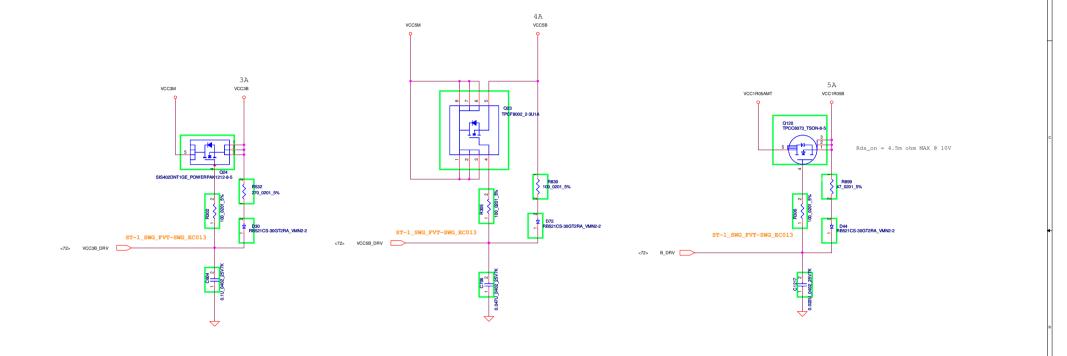




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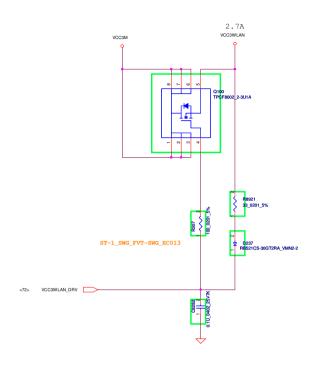
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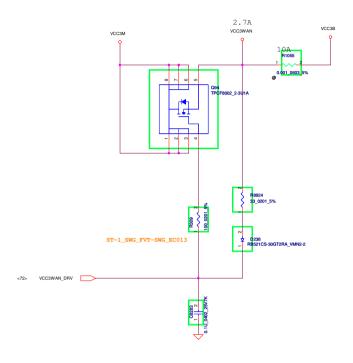
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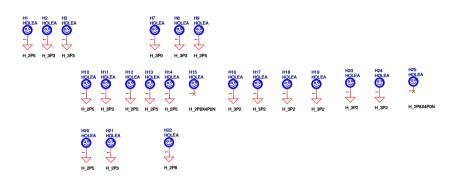


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Q94	ASM	NO-ASM
R8924	ASM	NO-ASM
R8926	ASM	NO-ASM
C8283	ASM	NO-ASM
D238	ASM	NO-ASM



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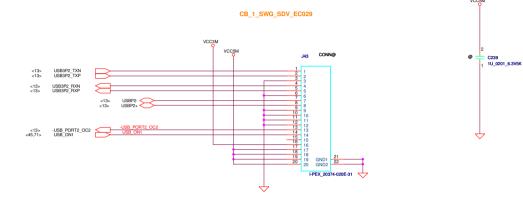


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