

LCFC Confidential

Chelsea -SKY M/B Schematics Document


INTEL SKYLAKE Mobile ULT Platform
INTEL SKY Y-series CPU + LPDDR3 Memory

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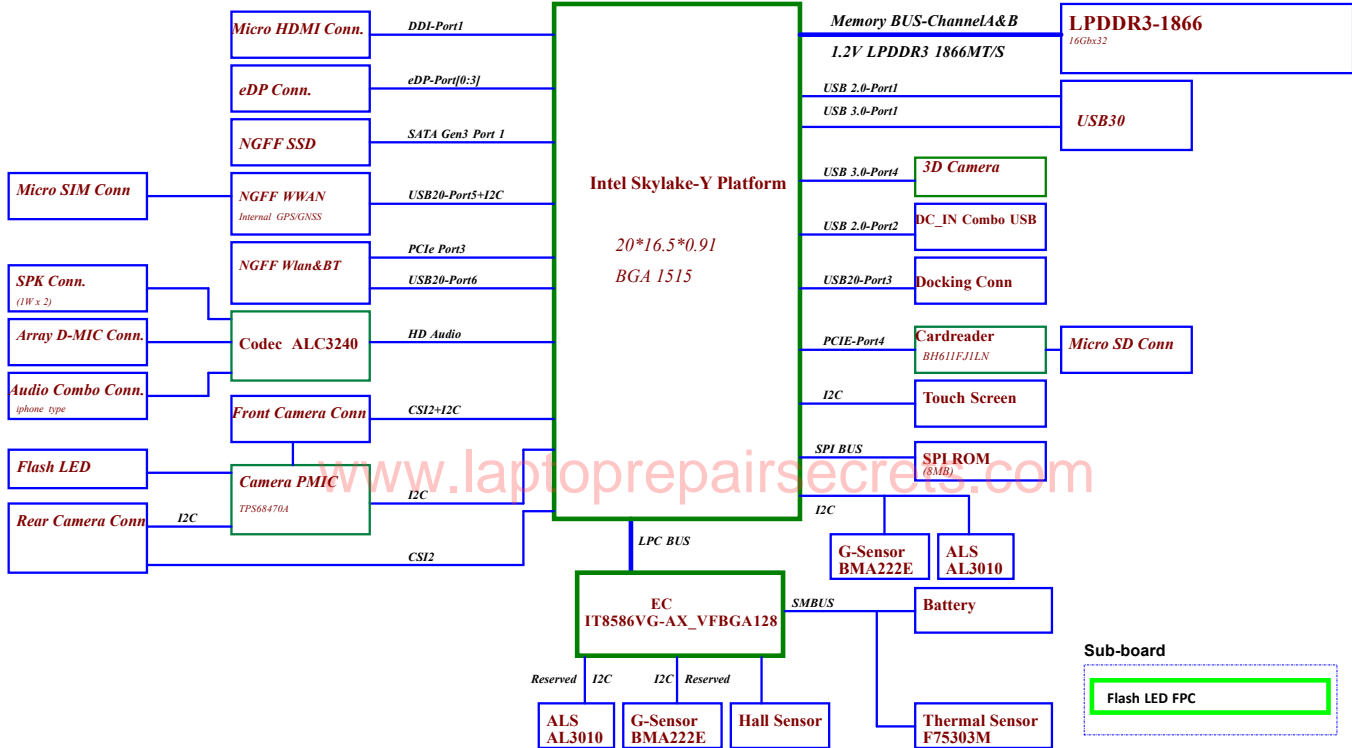
2015-08-13

REV: 1.0

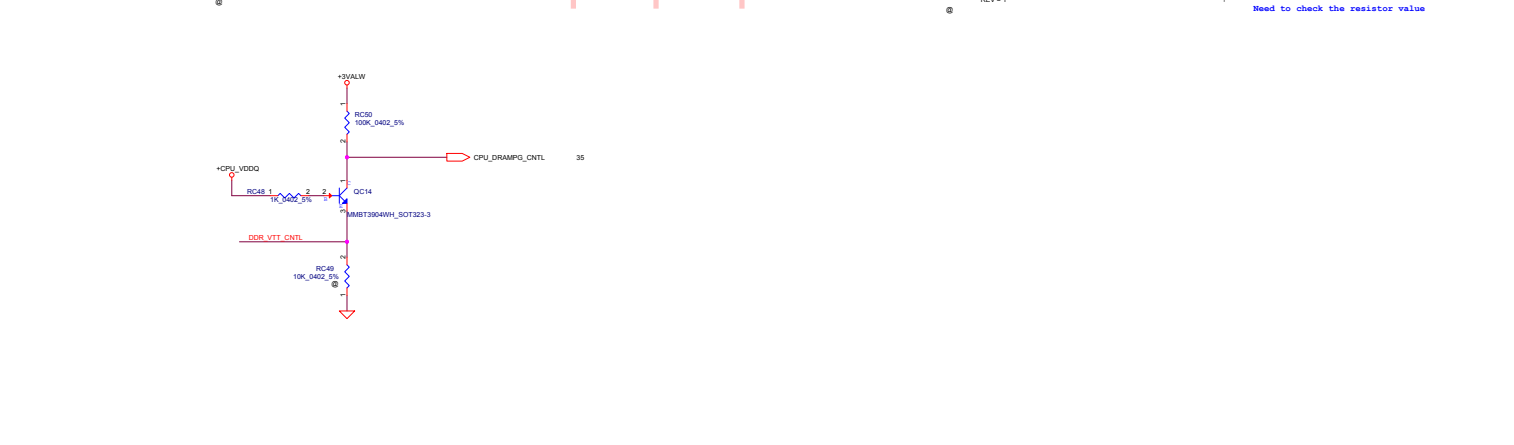
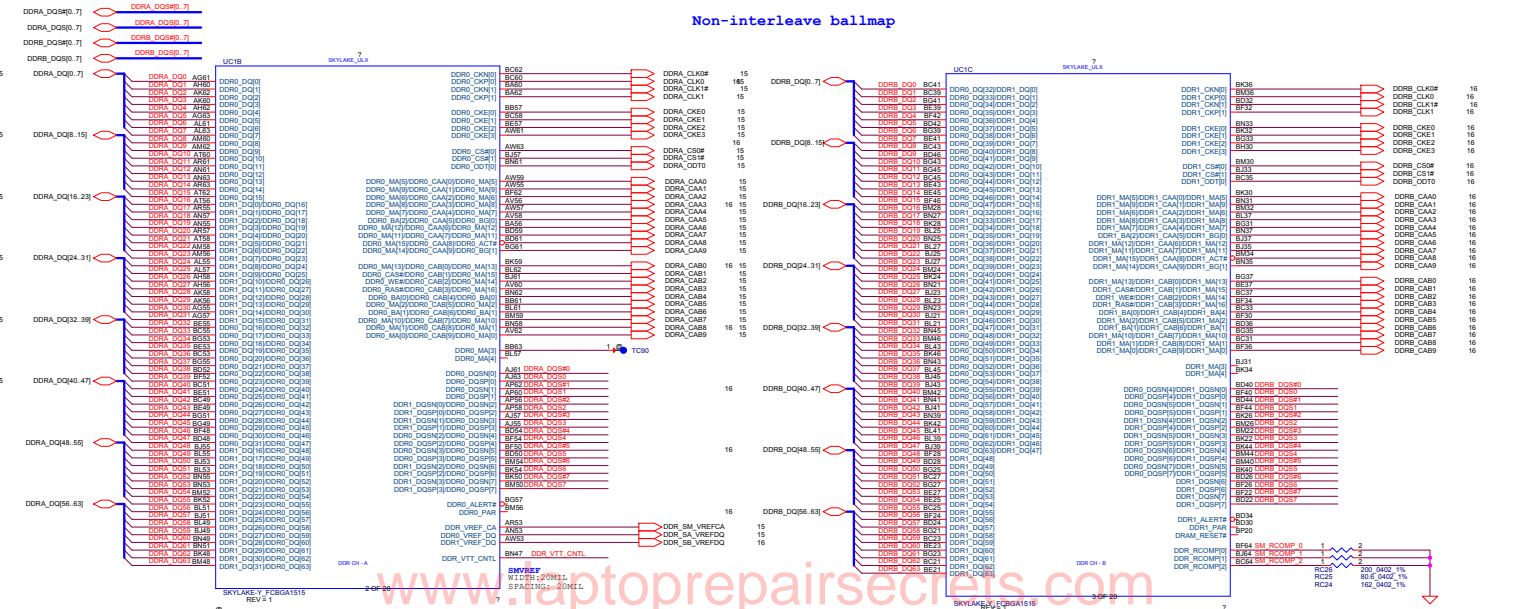
Security Classification	LC Future Center Secret Data		Title
Issued Date	2014/11/15	Deciphered Date	2013/11/08
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			Document Number
			Mix4
			Rev
			1.0
			Date: Monday, August 17, 2015
			Sheet 1 of 37



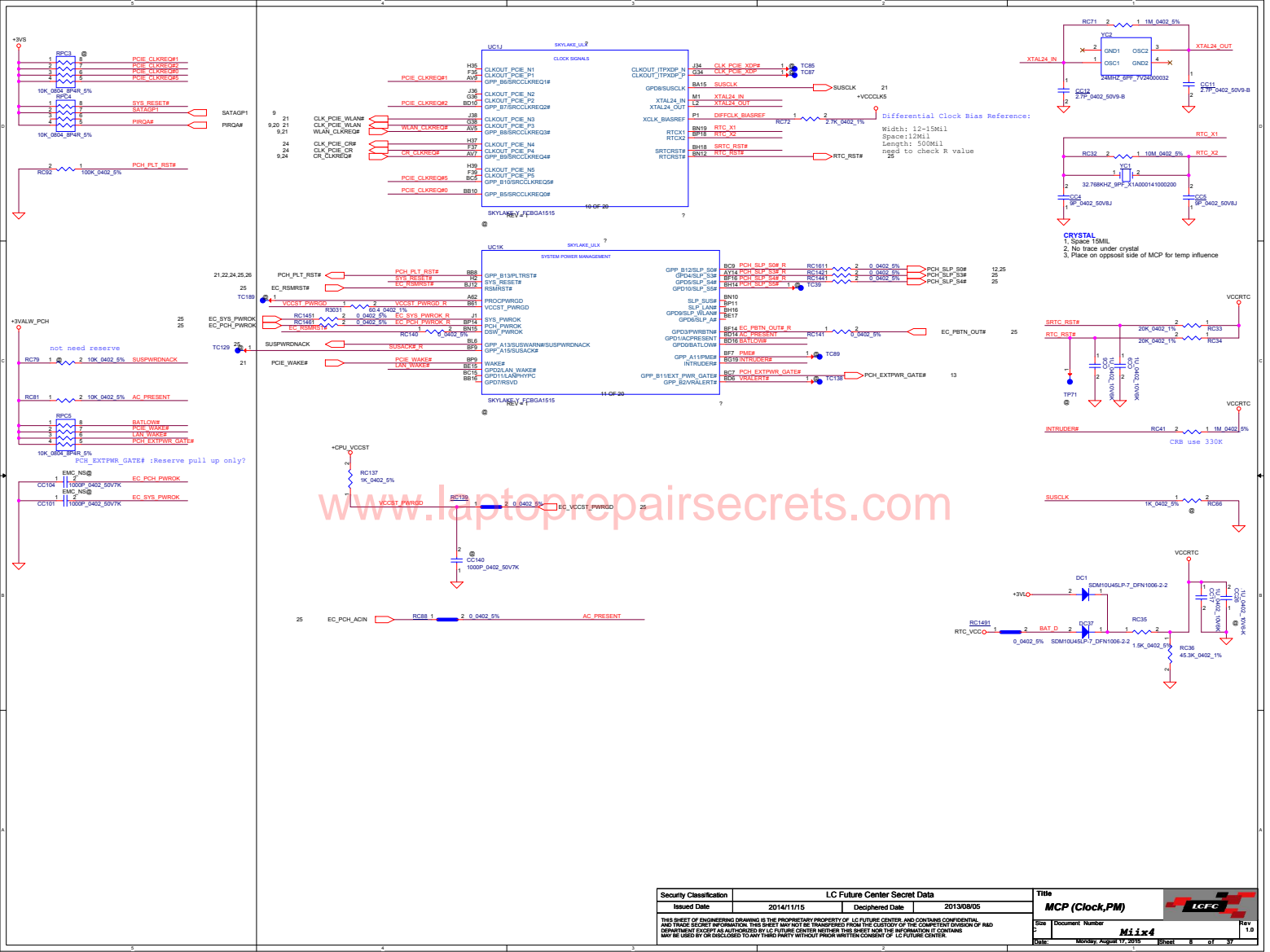
LCFC-Chelsea Refresh Block diagram



Non-interleave ballmap



Security Classification	LC Future Center Secret Data		Title
Issued Date	2014/11/15	Desphend Date	2013/08/05
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Doc #	Document Number	Rev	1.0
Doc:	Mix4	Sheet	6 of 37



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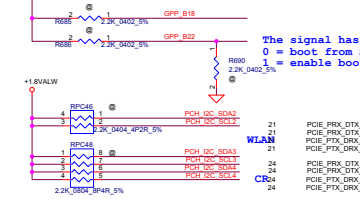
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Size	Document Number	Rev	
DocId:	Monday, August 17, 2015	Sheet	8 of 37

MCP (Clock, PM)

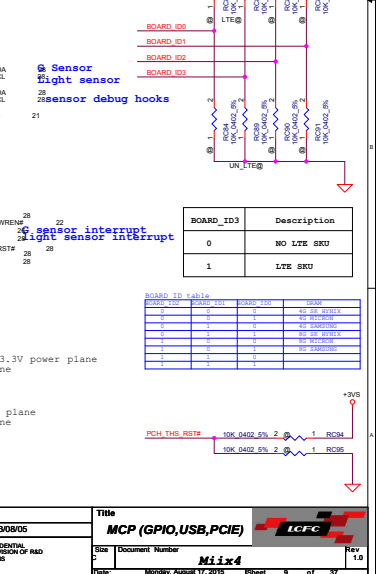
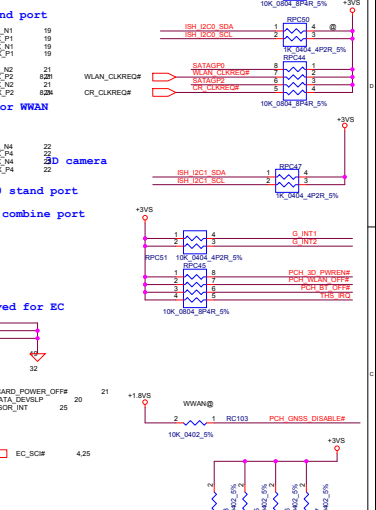
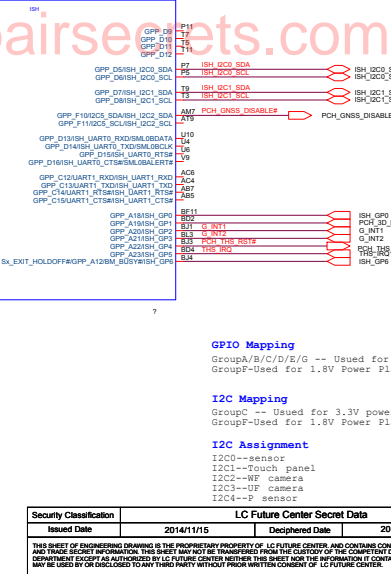
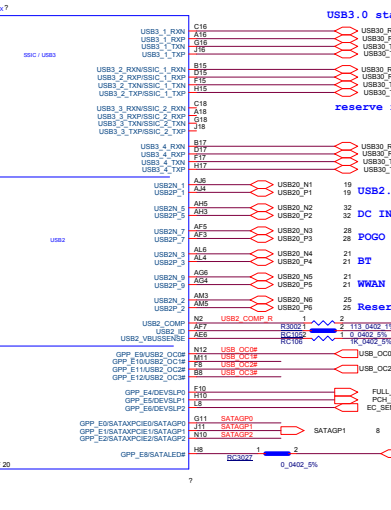
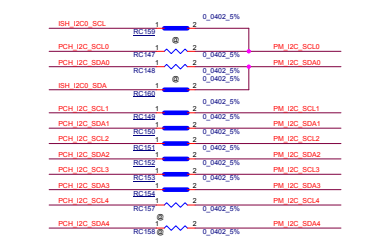
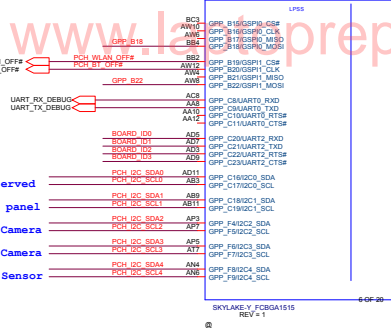
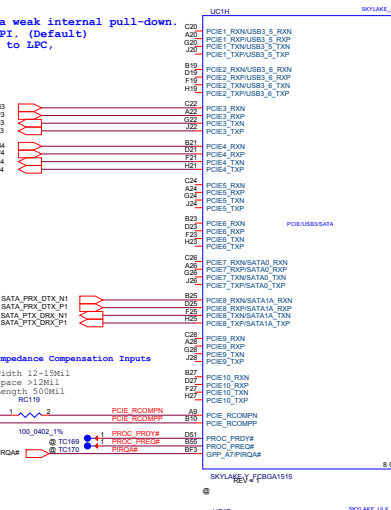
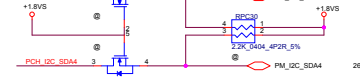
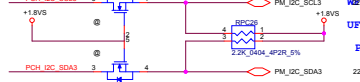
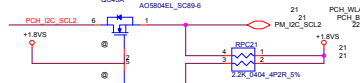
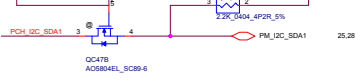
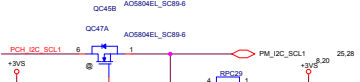
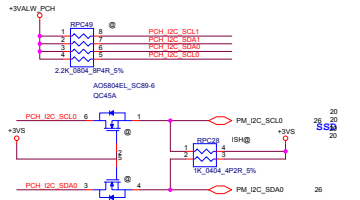


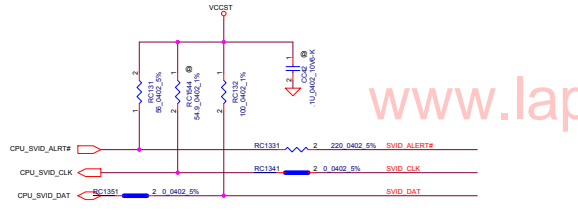
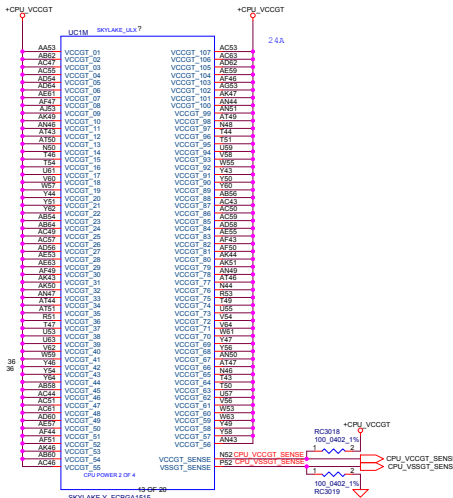
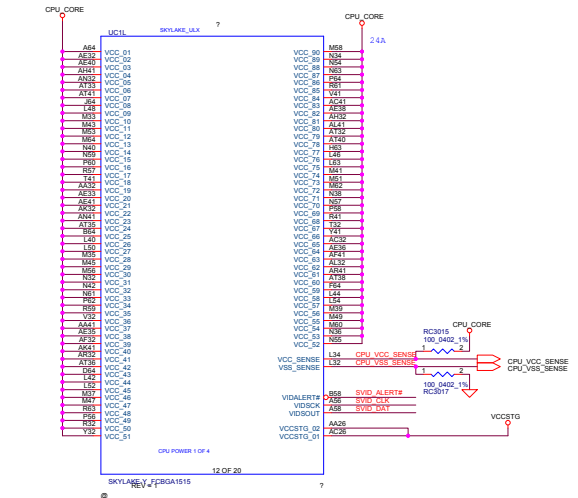
Mixd

The signal has a weak internal pull-down.
 0 = Disable "No Reboot" mode. (Default)
 1 = Enable "No Reboot" mode

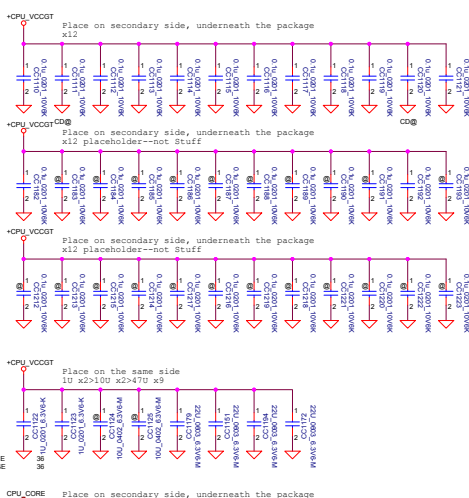


The signal has a weak internal pull-down.
 0 = boot from SPI. (Default)
 1 = enable boot to LPC,





1, Alert# Route Between CLK and Data



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UC10 SKYLAKE_L6? 7

B44	VSS_01	KC3
A23P	VSS_02	KC3
A23T	VSS_03	KC3
A23V	VSS_04	KC3
A23E	VSS_05	KC3
A23F	VSS_06	KC3
A23G	VSS_07	KC3
A23H	VSS_08	KC3
A23I	VSS_09	KC3
A23J	VSS_10	KC3
A23K	VSS_11	KC3
A23L	VSS_12	KC3
A23M	VSS_13	KC3
A23N	VSS_14	KC3
A23O	VSS_15	KC3
A23P	VSS_16	KC3
A23Q	VSS_17	KC3
A23R	VSS_18	KC3
A23S	VSS_19	KC3
A23T	VSS_20	KC3
A23U	VSS_21	KC3
A23V	VSS_22	KC3
A23W	VSS_23	KC3
A23X	VSS_24	KC3
A23Y	VSS_25	KC3
A23Z	VSS_26	KC3
A24	VSS_27	KC3
A25	VSS_28	KC3
A26	VSS_29	KC3
A27	VSS_30	KC3
A28	VSS_31	KC3
A29	VSS_32	KC3
A30	VSS_33	KC3
A31	VSS_34	KC3
A32	VSS_35	KC3
A33	VSS_36	KC3
A34	VSS_37	KC3
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A36	VSS_39	KC3
A37	VSS_40	KC3
A38	VSS_41	KC3
A39	VSS_42	KC3
A40	VSS_43	KC3
A41	VSS_44	KC3
A42	VSS_45	KC3
A43	VSS_46	KC3
A44	VSS_47	KC3
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A59	VSS_62	KC3
A60	VSS_63	KC3
A61	VSS_64	KC3
A62	VSS_65	KC3
A63	VSS_66	KC3
A64	VSS_67	KC3
A65	VSS_68	KC3
A66	VSS_69	KC3
A67	VSS_70	KC3
A68	VSS_71	KC3

0x0 1 of 3

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SKYLAKE_V_CBG0A1515 7

UC16 SKYLAKE_L6? 7

B0D	VSS_141	A550
B0E	VSS_142	A550
B0F	VSS_143	A550
B0G	VSS_144	A550
B0H	VSS_145	A550
B0I	VSS_146	A550
B0J	VSS_147	A550
B0K	VSS_148	A550
B0L	VSS_149	A550
B0M	VSS_150	A550
B0N	VSS_151	A550
B0O	VSS_152	A550
B0P	VSS_153	A550
B0Q	VSS_154	A550
B0R	VSS_155	A550
B0S	VSS_156	A550
B0T	VSS_157	A550
B0U	VSS_158	A550
B0V	VSS_159	A550
B0W	VSS_160	A550
B0X	VSS_161	A550
B0Y	VSS_162	A550
B0Z	VSS_163	A550
B1	VSS_164	A550
B2	VSS_165	A550
B3	VSS_166	A550
B4	VSS_167	A550
B5	VSS_168	A550
B6	VSS_169	A550
B7	VSS_170	A550
B8	VSS_171	A550
B9	VSS_172	A550
BA	VSS_173	A550
BB	VSS_174	A550
BC	VSS_175	A550
BD	VSS_176	A550
BE	VSS_177	A550
BF	VSS_178	A550
BG	VSS_179	A550
BH	VSS_180	A550
BI	VSS_181	A550
BJ	VSS_182	A550
BK	VSS_183	A550
BL	VSS_184	A550
BM	VSS_185	A550
BN	VSS_186	A550
BO	VSS_187	A550
BP	VSS_188	A550
BQ	VSS_189	A550
BR	VSS_190	A550
BS	VSS_191	A550
BT	VSS_192	A550
BV	VSS_193	A550
BW	VSS_194	A550
BX	VSS_195	A550
BY	VSS_196	A550
BZ	VSS_197	A550
CA	VSS_198	A550
CB	VSS_199	A550
CC	VSS_200	A550
CD	VSS_201	A550
CE	VSS_202	A550
CF	VSS_203	A550
CG	VSS_204	A550
CH	VSS_205	A550
CI	VSS_206	A550
CJ	VSS_207	A550
CK	VSS_208	A550
CL	VSS_209	A550
CM	VSS_210	A550

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18 OF 20

SKYLAKE_V_CBG0A1515 7

UC15 SKYLAKE_L6? 7

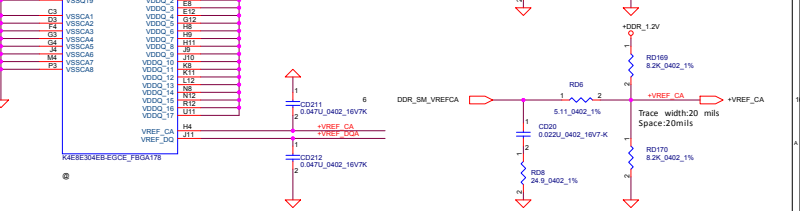
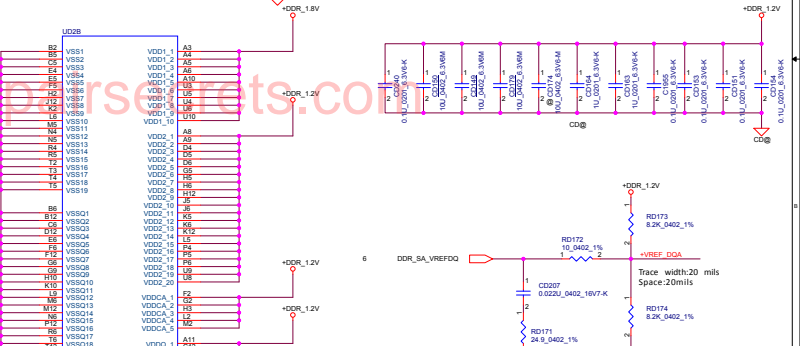
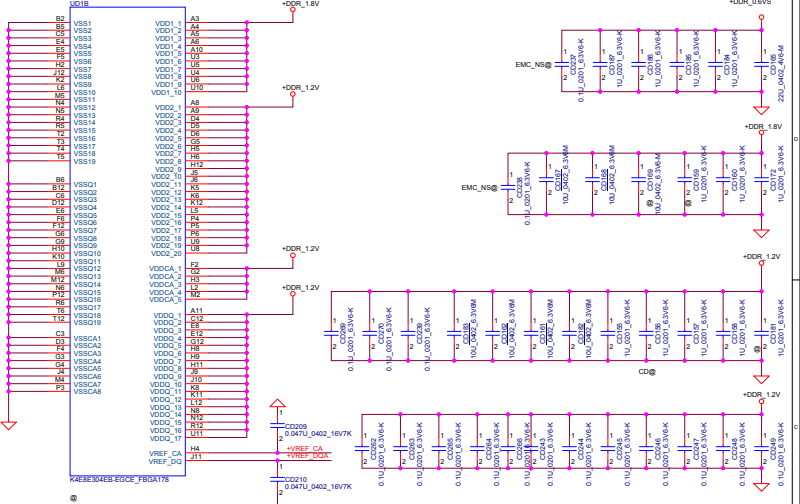
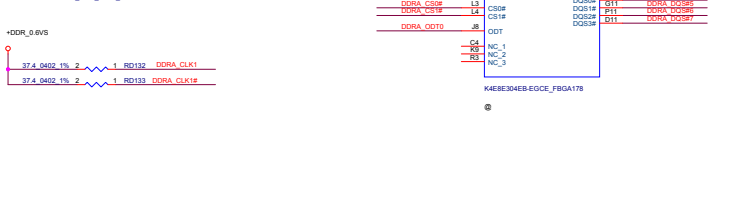
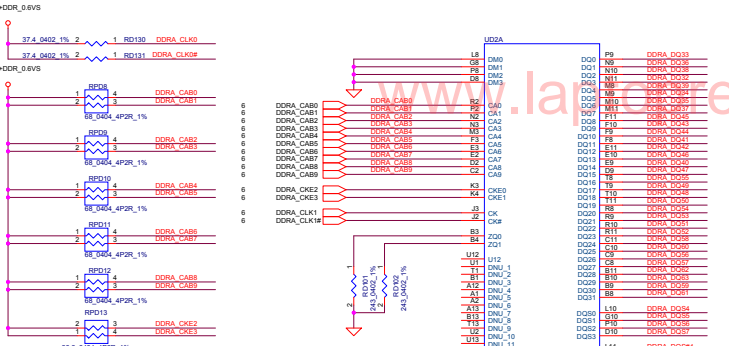
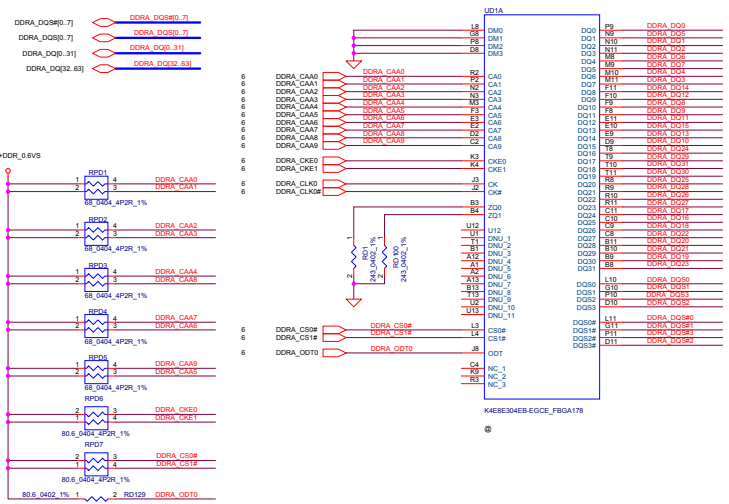
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AF04	VSS_280	AF06
AF05	VSS_281	AF06
AF06	VSS_282	AF06
AF07	VSS_283	AF06
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AF09	VSS_285	AF06
AF10	VSS_286	AF06
AF11	VSS_287	AF06
AF12	VSS_288	AF06
AF13	VSS_289	AF06
AF14	VSS_290	AF06
AF15	VSS_291	AF06
AF16	VSS_292	AF06
AF17	VSS_293	AF06
AF18	VSS_294	AF06
AF19	VSS_295	AF06
AF20	VSS_296	AF06
AF21	VSS_297	AF06
AF22	VSS_298	AF06
AF23	VSS_299	AF06
AF24	VSS_300	AF06
AF25	VSS_301	AF06
AF26	VSS_302	AF06
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AF36	VSS_312	AF06
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AF40	VSS_316	AF06
AF41	VSS_317	AF06
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AF43	VSS_319	AF06
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AA15	VSS_391	AF06
AA16	VSS_392	AF06
AA17	VSS_393	AF06
AA18	VSS_394	AF06
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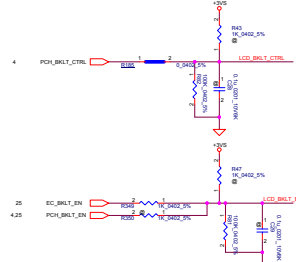
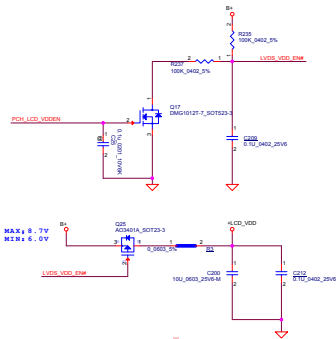
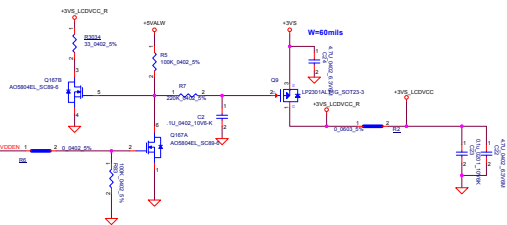
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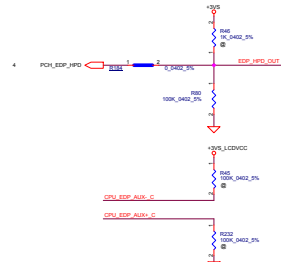
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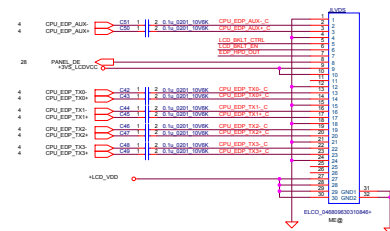




FUNC:
 1. pin to pin with EDP Panel, check the panel pin definition
 2. check the HSYNC for Touch screen board



number of pixel:2160X1440



NOTE

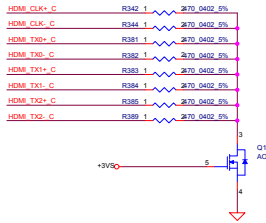
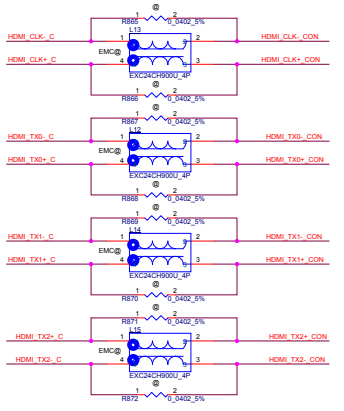
1. AG 19V70C 8.2V
2. A05800E For VDD concern
3. R1, R5, R13 For VDD concern
4. C200 For voltage concern

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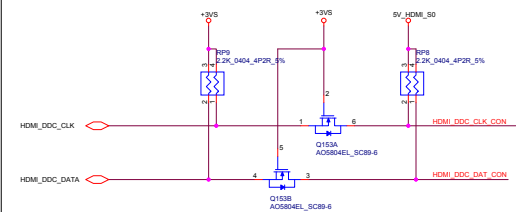
Reserve for other function

TMDS

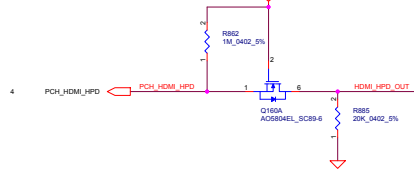
4	CPU_HDMI_TX0+	CPU HDMI TX0+	CV2951	2 0.1u,0201_10V8K	HDMI_TX0+_C
4	CPU_HDMI_TX0-	CPU HDMI TX0-	CV2951	2 0.1u,0201_10V8K	HDMI_TX0-_C
4	CPU_HDMI_TX1+	CPU HDMI TX1+	CV2971	2 0.1u,0201_10V8K	HDMI_TX1+_C
4	CPU_HDMI_TX1-	CPU HDMI TX1-	CV2951	2 0.1u,0201_10V8K	HDMI_TX1-_C
4	CPU_HDMI_TX2+	CPU HDMI TX2+	CV2991	2 0.1u,0201_10V8K	HDMI_TX2+_C
4	CPU_HDMI_TX2-	CPU HDMI TX2-	CV2901	2 0.1u,0201_10V8K	HDMI_TX2-_C
4	CPU_HDMI_CLK+	CPU HDMI CLK+	CV2811	2 0.1u,0201_10V8K	HDMI_CLK+_C
4	CPU_HDMI_CLK-	CPU HDMI CLK-	CV2821	2 0.1u,0201_10V8K	HDMI_CLK-_C



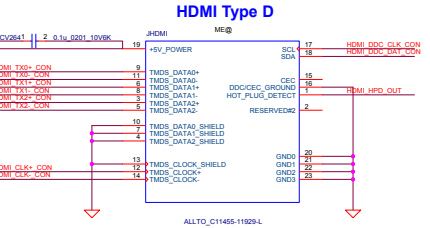
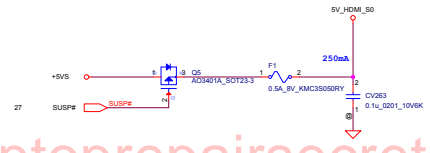
DDC



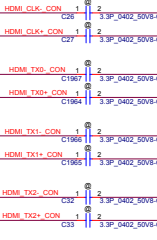
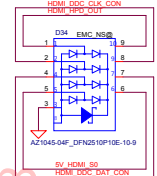
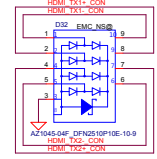
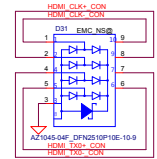
H-PLUG



CONN

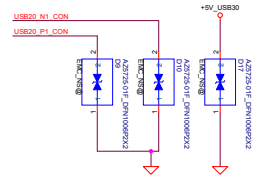
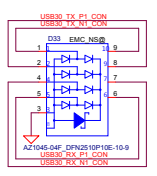
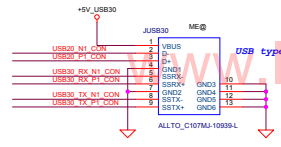
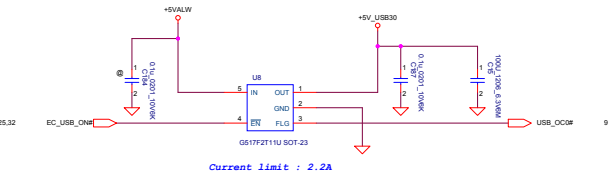
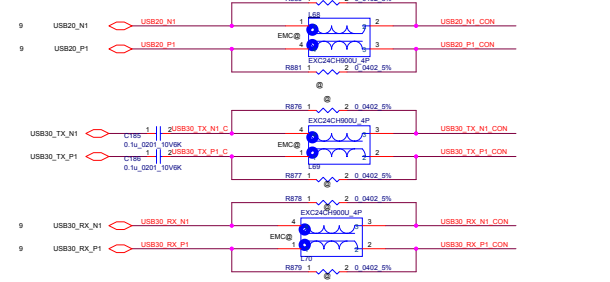


ESD



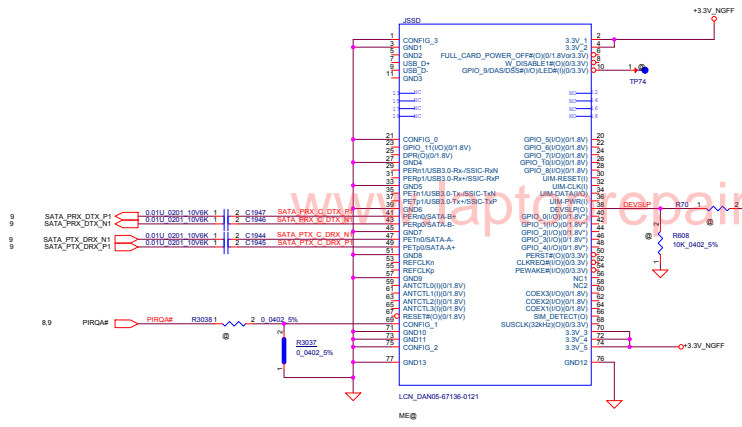
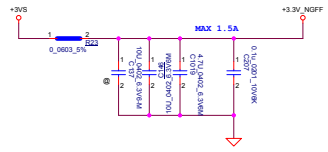
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USB30

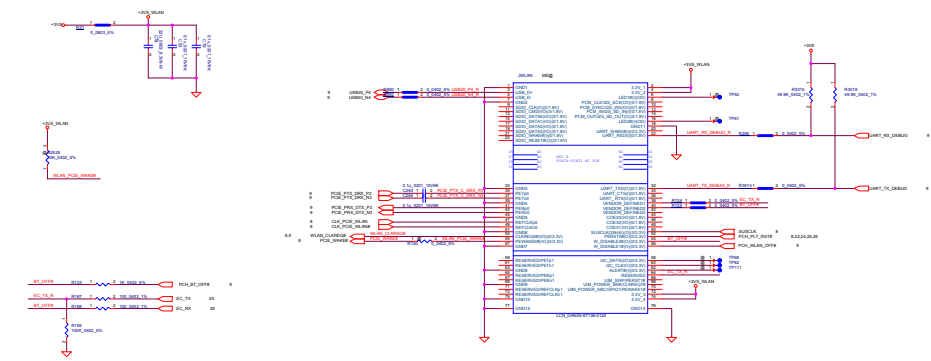


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Security Classification	LC Future Center Secret Data			Title
Issued Date	2014/11/15	Disphered Date	2013/11/08	SSD&USB30 Type C
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Date: Monday, August 17, 2015				Sheet 19 of 37



Mini Card(WLAN)

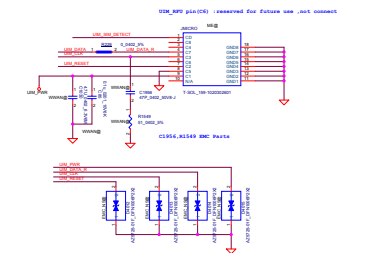
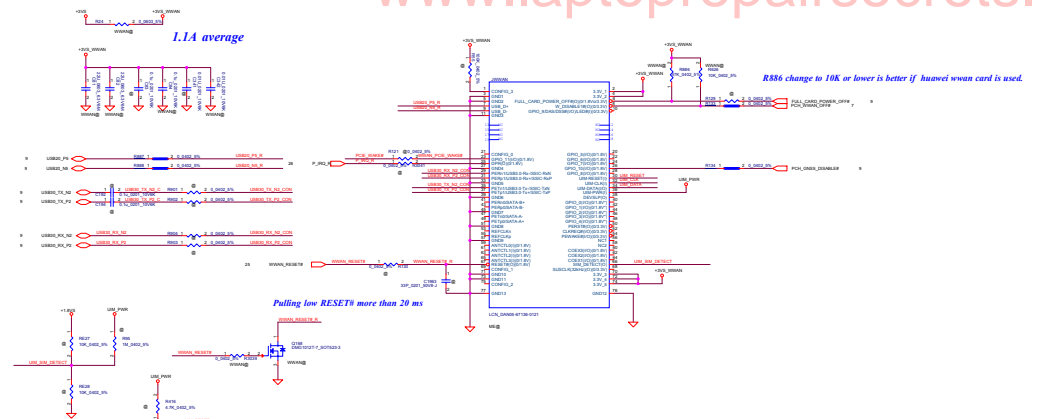


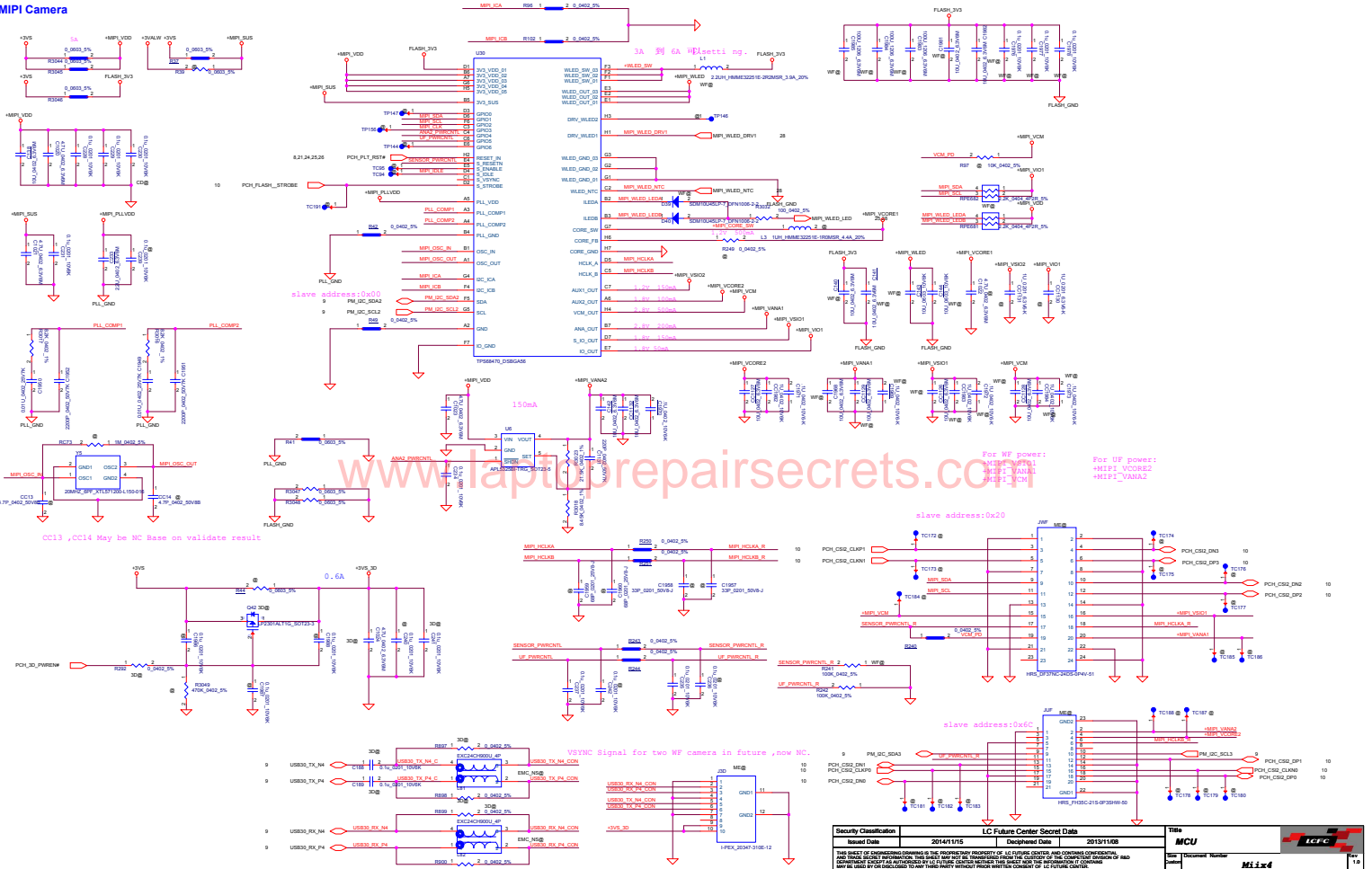
WLANBT Combo module pinouts

	BT on module	BT on module
	Disable	Disable
BT_CTRL	B	L
WLAN_RST	L	B

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Mini Card(WWAN)





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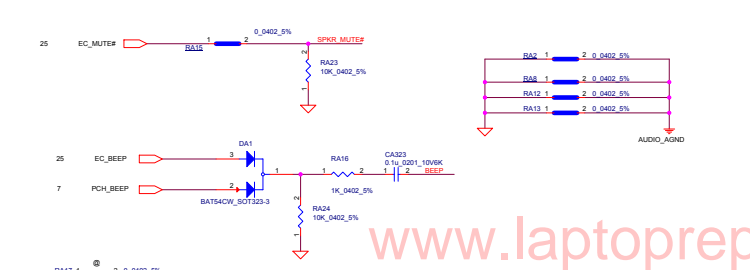
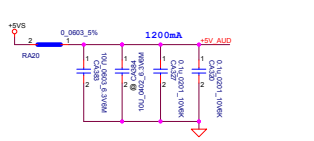
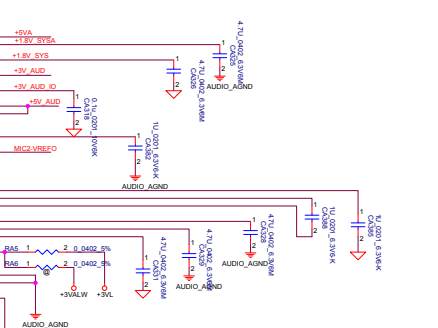
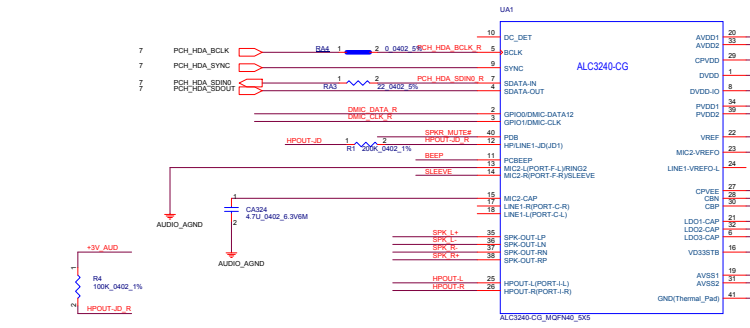
For WF power:
 MP1_VDD1
 MP1_VDD2
 MP1_VDD3
 MP1_VDD4
 MP1_VDD5
 MP1_VDD6
 MP1_VDD7
 MP1_VDD8
 MP1_VDD9
 MP1_VDD10
 MP1_VDD11
 MP1_VDD12
 MP1_VDD13
 MP1_VDD14
 MP1_VDD15
 MP1_VDD16
 MP1_VDD17
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 MP1_VDD98
 MP1_VDD99
 MP1_VDD100

CC13, CC14 May be NC Base on validate result

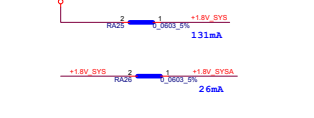
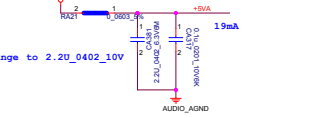
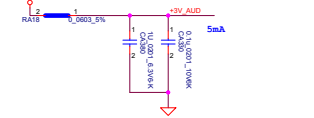
VSYNC Signal for two WF camera in future, now NC.

slave address:0x6c

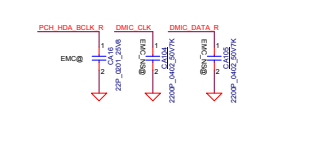
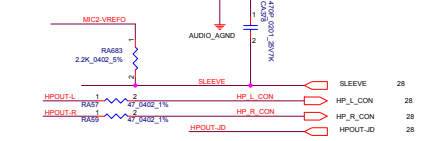
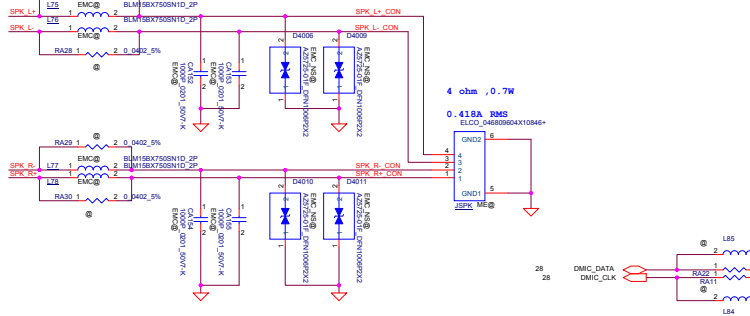
slave address:0x20



VD33STB: Power for combo jack depop circuit at system shutdown mode.
 AVDD1: Analog power for mixers ,IO ports
 DVDD: Digital power for HDA link
 AVDD2: Analog power for DMCS ,ADCS
 PVDD1, PVDD2: Power supply for full-bridge left and right channel

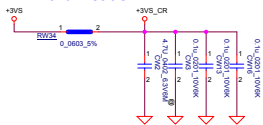


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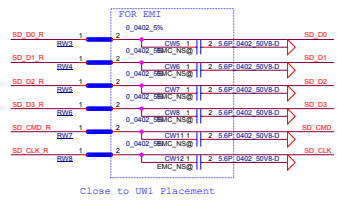
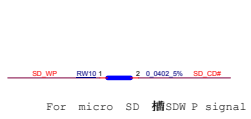
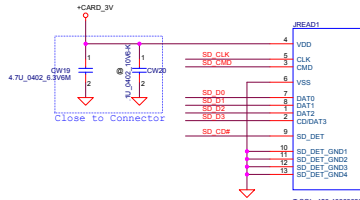
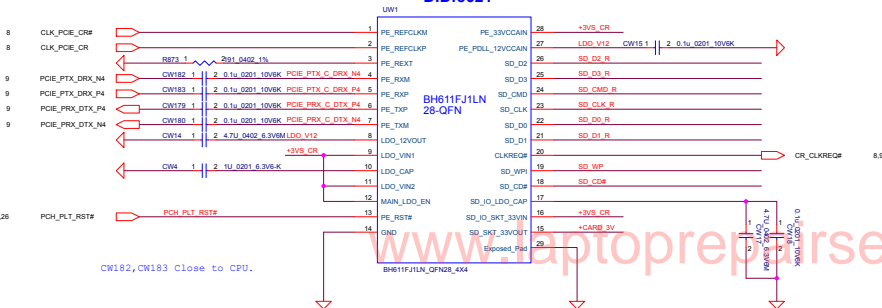


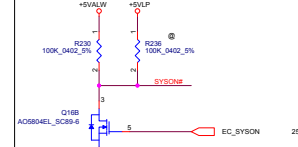
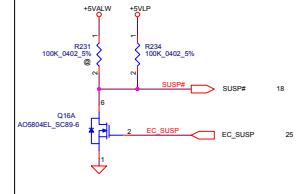
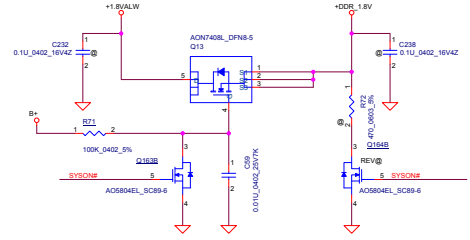
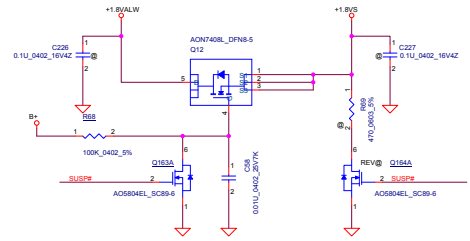
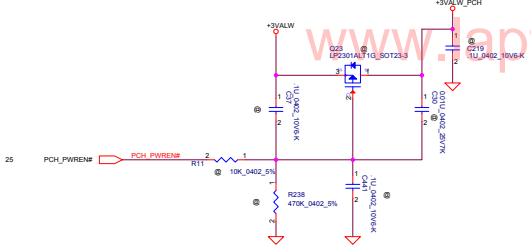
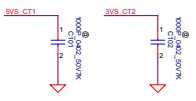
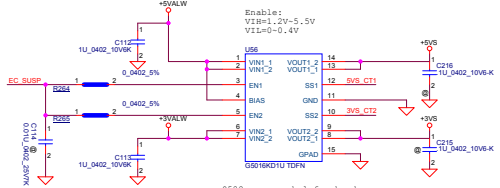
RA194, RA195, RA196, RA197 will be changed to 150hm Place Close to Codec

Card Reader

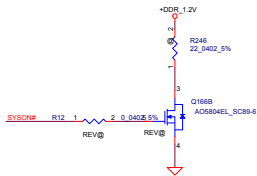
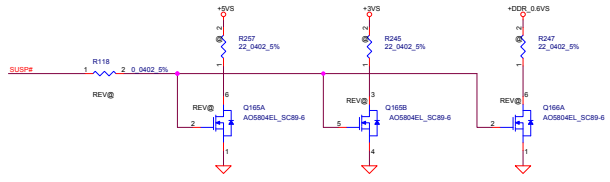


VID:1217
DID:8621

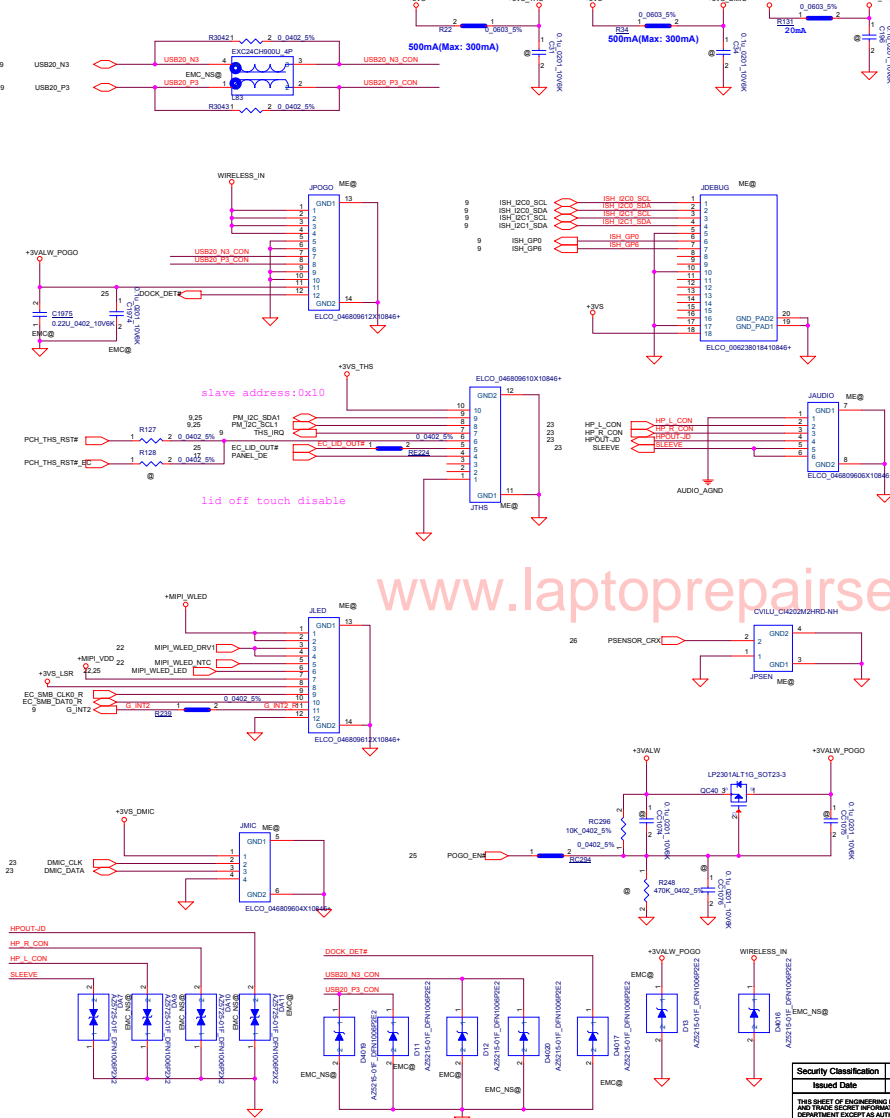




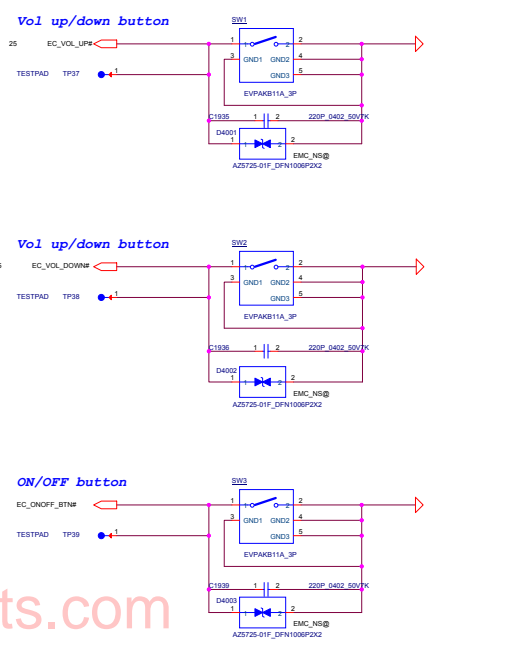
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Security Classification	LC Future Center Secret Data			Title
Issued Date	2014/11/15	Discontinued Date	2013/1/08	POWER SWITCH
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Size	Document Number	Rev		1.0
Issue	Monday, August 17, 2015	Sheet	27	37

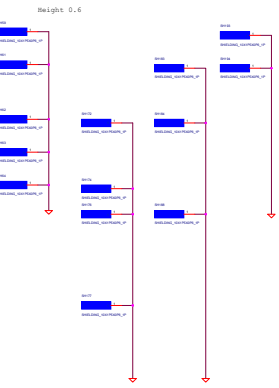
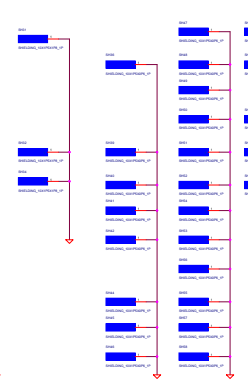
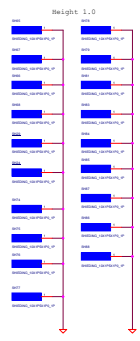


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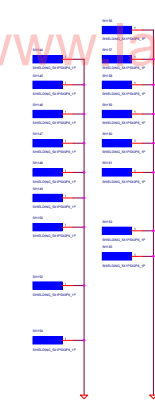


Configure	PU	PD	Voltage	POGO EN#	+3VALW_POGO
No docking	100K	NC	3.3V	3.3V	0V
KB and TP enable	100K	300K	2.475V	0V	3.3V
KB and TP disable(0-15 degree)	100K	300K	2.475V	3.3V	0V
KB and TP disable(345-360 degree)	100K	300K	2.475V	3.3V	0V
KB and TP disable after calculate angle	100K	150K	1.98V	0V	3.3V

Configure	PU	PD	Voltage		
No docking	100K	NC	3.3V		
10W CHG Docking	100K	50K	1.1V		
20W CHG Docking	100K	83K	1.496V		



Length 10



Length 5

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01/06:
 1.Change EC to 8386
 2.modify JPOGO pin define .
 3.Change U40 to APX8132HAI-TRG_SOT23-3

01/12:
 1.Change EC to 8586
 2.Change U40 to H0C8M011A_MAP4_IPX009

01/13:
 1.Change U35 to F75303M_M8P010

01/21:
 1.Add F sensor part schematic
 2.Move light sensor to DB.

01/26:
 1.Change Codec to AL3240-CD_MQTRN40_SXS

01/30:
 1.Change J7WAM to ANGOS_NARBO-M6701-TS15 follow ME request.

2/3:
 1.Add o ohm resistor for Power manager signal.

2/9:
 1.update UF Camera connector follow ME connector list .

2/11:
 1.Modify J3D pin define.
 2.Reserve EDP component for SIM Card interface.
 3.Swap USB2.0 port2,port3 signal for layout concern

2/12:
 1.Delete Audio jack signal RING2
 2.Swap J4VUS pin define .

2/13:
 1.Change some resistor to R short for layout concern.
 2.Modify +CPU_VCC3M and VCC3L_OC enable control method
 3.Swap J7HS_JAUDIO pin define.
 4.Add hole symbol

2/14:
 1.Modify touch panel signal H5VNC .
 3.Swap J7OGO pin define.

2/25:
 1.Modify Camera part schematic.

2/26:
 1.Delete UPI Colay component.
 2.Add J7EBUG connector
 3.combine power part schematic

2/28:
 1.Swap J7OGO, J7HS pin define
 2. Modify Hole size .

3/2:
 1.update RPC28 to 1K_0404_4P2R_5#
 2.Add I.0 height clip.
 3.Modify Camera part schematic.
 4.combine power part schematic
 5.Change CCI150 to 22U_0402_4V6-M

3/3:
 1.Change J7EBUG to ELC0_006238018410846#
 2.Change F sensor to Cypress solution (C78C401141Q1-421_0FM16_3X3)

3/4:
 1.Add K3015,K3019 for debug function
 2.Change L75,L76,L77,L78 to BSM15P7121N10_2P

3/5:
 1.Change U30 to BA00007AT10
 2.reserve I2C interface for 8396 EC.

3/6:
 1.Reserve CU035,CU036,CU037,CU038 Follow EMC suggestion.
 2.reserve EC debug connector J7EBUG
 3.combine power part schematic .

3/7:
 1.Change CQ7 to 2N7002KHWI_bot363-6

3/9:
 1.Change CA384 to 10U_0402_6_3V4M For ME height concern.
 2.Change CQ3,CQ4,CQ5,CQ6,CQ7,CQ8,CQ9,CQ10,CQ11,CQ12,CQ13,CQ14,CQ15,CQ16,CQ17 to 22U_0402_4V6-M for ME height concern.
 3.Change CQ7 to A055042L_EC89-6
 4.Change C200 to 10U_0603_25V6-M for ME height concern.

3/9:
 1.Change JAUDIO to ELC0_04680960X10846# follow ME Connector list
 2.Change JMJC to ELC0_0680960X10846# follow ME Connector list
 3.Change J7HS to ELC0_04680960X10846# follow ME Connector list
 4.Change J7OGO,J7ED to ELC0_046809612X10846# follow ME Connector list
 5.Change signal MIP1_SMI pull up power plane to +MIP1_VDD1
 6.Add U4, colay with U3 For ME height concern.
 7.Reserve pull down for signal F_IRQ
 8.Add pull down resistor for GPF_EC
 9.Change L69,L70,L81,L82 to EKC24CH9000_4P
 10.Change L32,L33,L34,L35,L36 to BSM15P7121N10_2P For ME height concern.

3/10:
 1.Change J7MOS1 to TP71
 2.Change EDP power switch to MOS for ME Height concern.
 3.Change DC2,DC1 to U85,U86 (74LV161088E-7_SOT35-5) For leakage issue.
 4.Change RE2,RI12,RA18,RA20,RA21,RA29,RA25 to R short for ME height concern
 5.pull up to +3VALM_EC for signal EC_ON, POGO_EN#
 6.Add resistor RE24E5
 7.combine power part schematic
 8.Modify EDP pin define.

3/11:
 1.Change L4 to 180M_HCI1005F-18M-M8 5# follow vendor suggestion.
 2.pull up +3VALM_EC for signal EC_WC_EN

3/12:
 1.Delete CA386,CA387
 2.Mount RE207
 3.Combine power part schematic

3/13:
 1.Modify J7OGO pin define.
 2.Modify Jmic pin define.
 3.Combine power part schematic

3/16:
 1.Change SW1,SW2,SW3 to IPFG14K-Q-T-R_5P follow ME suggestion.
 2.set signal VDD0 pull up to +3VALM.

SIV

4/13:
 1.unmount C193,CW3,C215,C216,CV263
 CCI197,CCI105,CCI196,CCI103,CCI192,
 CCI111,CCI120
 CCI157,CCI160,CCI169
 CCI1236,CCI1239,CCI1233
 CCI1958,CCI1965,CCI1961,CCI1971,CCI1974,CCI1977
 CCI154,CCI156,CCI164,CCI225,CCI232,CCI171,CCI203
 CCI133,CCI132,C230 for components quantity down
 2.Change EDP part dice signal name.

4/14:
 1.move signal EC_SENSOR_INT to GPF5
 2.move signal EC_SPS to GPF_5U

4/16:
 1.Change R3034 to 33 ohm for LCDVCC full time fail.
 2.Change +3PR to ELC0_04680960X10846# follow ME connector list
 3.Change L68,L12,L13,L14,L15 to EKC24CH9000_4P
 4.Change SW1,SW2,SW3 to EYPAK811A_5P follow ME request.

4/20:
 1.Change signal EC_VOL_U# and EC_VOL_DOWN# pull up power plane to +3VALM.

4/23:
 1.Reserve GPF_E15 for SCI function
 2.Add test point for signal PCM_FLASH_STROBE
 3.Change XCI to XIA000141000200,,CC4 to 8P_0402_50V8J,CC5 to 8P_0402_50V8J follow vendor suggestion
 4.Add Ohm resistor for SMD pin69.
 5.Change D11,D12,D13 to A2515-01F_PFN106P2E2 follow EMC suggestion
 6.Reserve D4016 follow EMC suggestion
 7.Reserve C25,C27,C1967,C1964,C1966,C1965,C32,C33 follow EMC suggestion.
 8.Add D4017 follow EMC suggestion
 9.Change RL103 to EKC24CH9000_4P follow EMC suggestion

4/25:
 1.Change R887,R888,RW10,RC46,RC57,R96,RI02,RC105,R184,R185,RE188,RA2,RA8,RI24,RI25,R890,R892,RE23 to R short for components quantity down.

SIT

6/8:
 1.Reserve Q168 For wwan reset#
 2.Change R3002 to S00001R000
 3.Change U56 to SA00007600
 4.Reserve LED schematic

6/17:
 1.Change D11,D12,D13,D4016,D4017 to A25423-01F_R7GR_PFN106P2E2 follow EMC suggestion.
 2.Change CC4 to 9P_0402_50V8J follow crystal vendor suggestion.
 3.Change RW829,RW826 to 100K_0402_4P2R_5#
 4.Change RW12 to 100K_0402_5#

6/19:
 1.Add CAP CC1981,CC239,CC240,CC241,CC242

SVT

7/17:
 1.Mount C237 and C235 for signal UP_PWRCTRL quality.
 2.Change C145,C144 to SE0000X000#
 3.Change C138,C140,C146,C149,CCI100,CCI161,CCI162,CCI167,CCI168,CCI179,CCI182,CCI183,CCI189,CCI190,CCI191,CCI198,CCI199,CCI200,CCI215,CCI216,CCI229,CCI1080,CCI1081,CCI189,CCI1084,CCI1088,CCI1086,CCI1087 to SE0000X000#

7/30:
 1.Add IC1968 and IC1969 to solve MF camera garbage issue..

8/2:
 1.Change Y5 to 20MHE_GPF_XTL571200-1150-016 follow vendor suggestion.
 2.Reserve 0.1uF cap for power M5T1_VAN10
 3.Change RC92 to 0402 size o ohm FResistor .
 4.Add IuF and 0.1uF caps for mpi camera power.

8/3:
 1.Change JLVDS to ELC0_046809630110846# follow ME request .

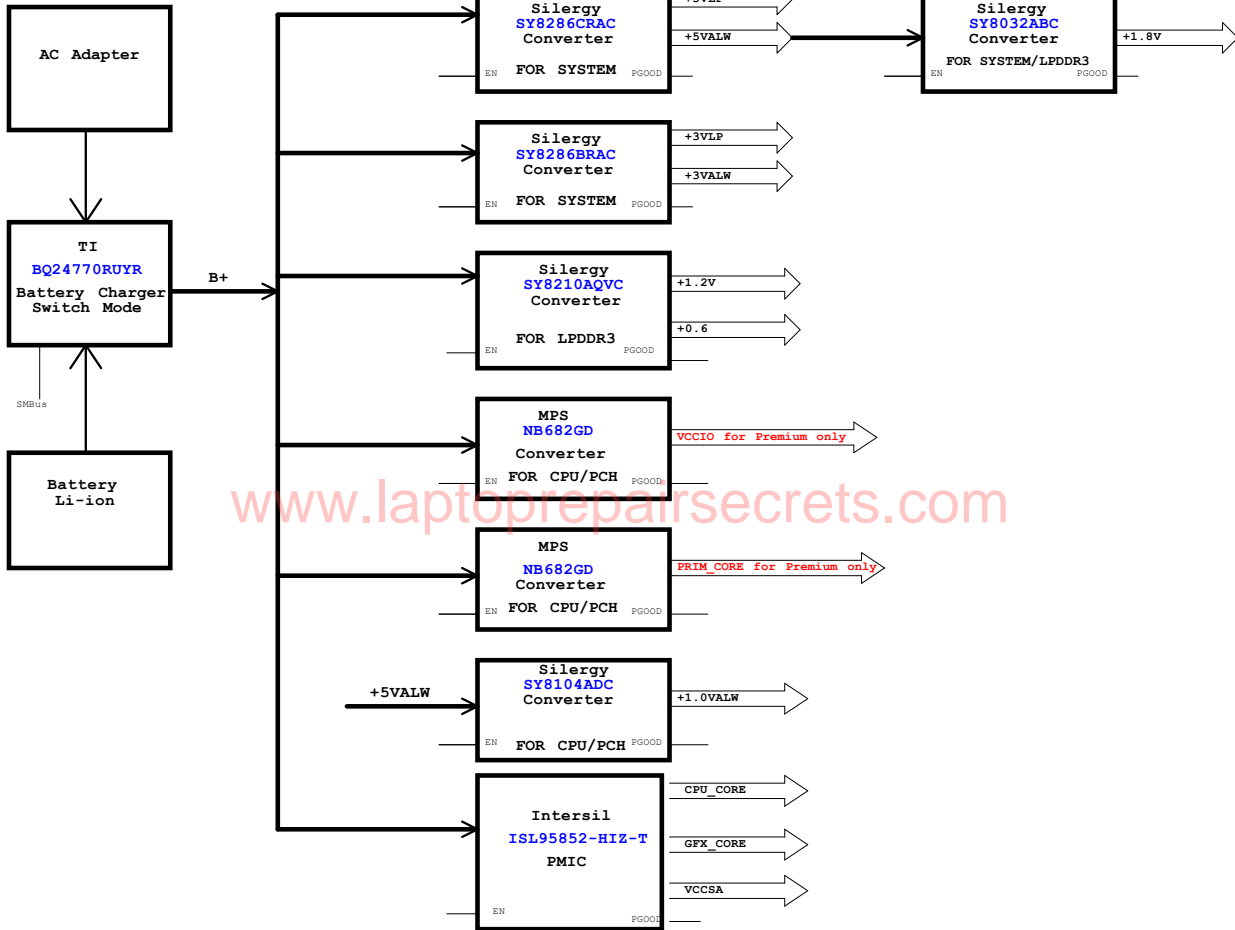
8/4:
 1.Mount LC37 for SKL 5.67GHz signal noise issue
 2.Add C1974 and C1975 follow EMC suggestion.
 3.Mount Q168 for Wwan reset signal.
 4.Add TFM_ID1 and TFM_ID2 Signal to identify TFM work or not .
 5.Change -RI15,RI16,R133,R134,RE26,R240,R243,R251,R252,RE23,R31,R31R,W34,R34,R37,R117,R120,R131,RC269 ,R3010,RC3028,RC159,RC160,R222,R224,R228,R229,R233,R239,R126,RW3,RW4,RW5,RW6,RW7,RW8,R13,R215,RA15,RE16,RE17,RE19,RE20,RC44,RC89,RC134,RC135,RC139,RC149,RC150,RC151,RC152,RC153,RC154,RE200,RE216,RE217, R223,RC224,R244,R251,RC294,R268,RC1491,R3009,RC3027,RA4,RE,RA2,RA4,R6,RA2,R49,RC62,RC77,RC171,R256,R3014,RE262,R264,R265,R3037 to R short .

8/5:
 1.Reserve head L83 follow EMC request .
 2.Reserve head L84,L85 follow RF request .
 3.Combine power part schematic.

8/8:
 1.Modify mpi camera schematic.

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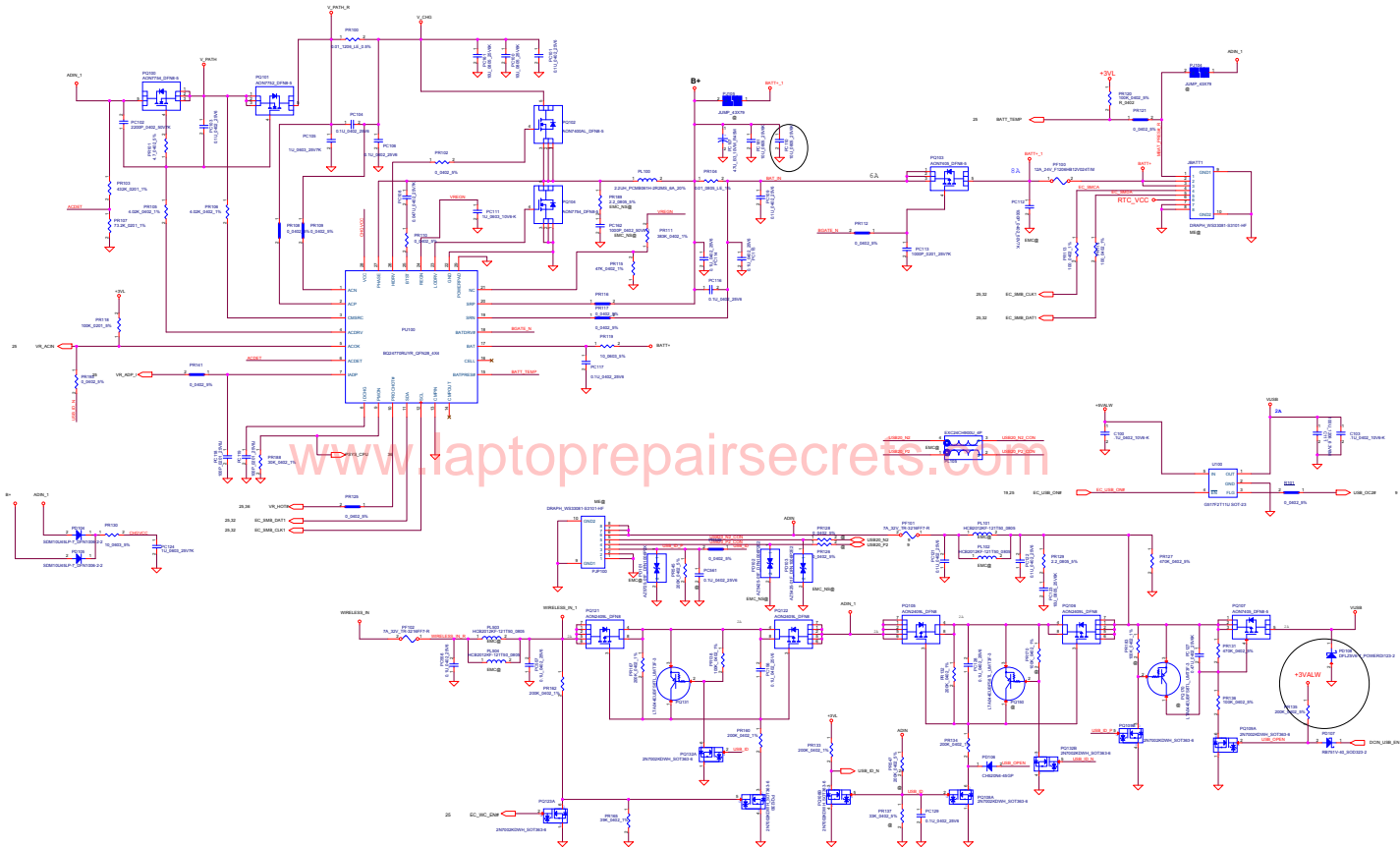


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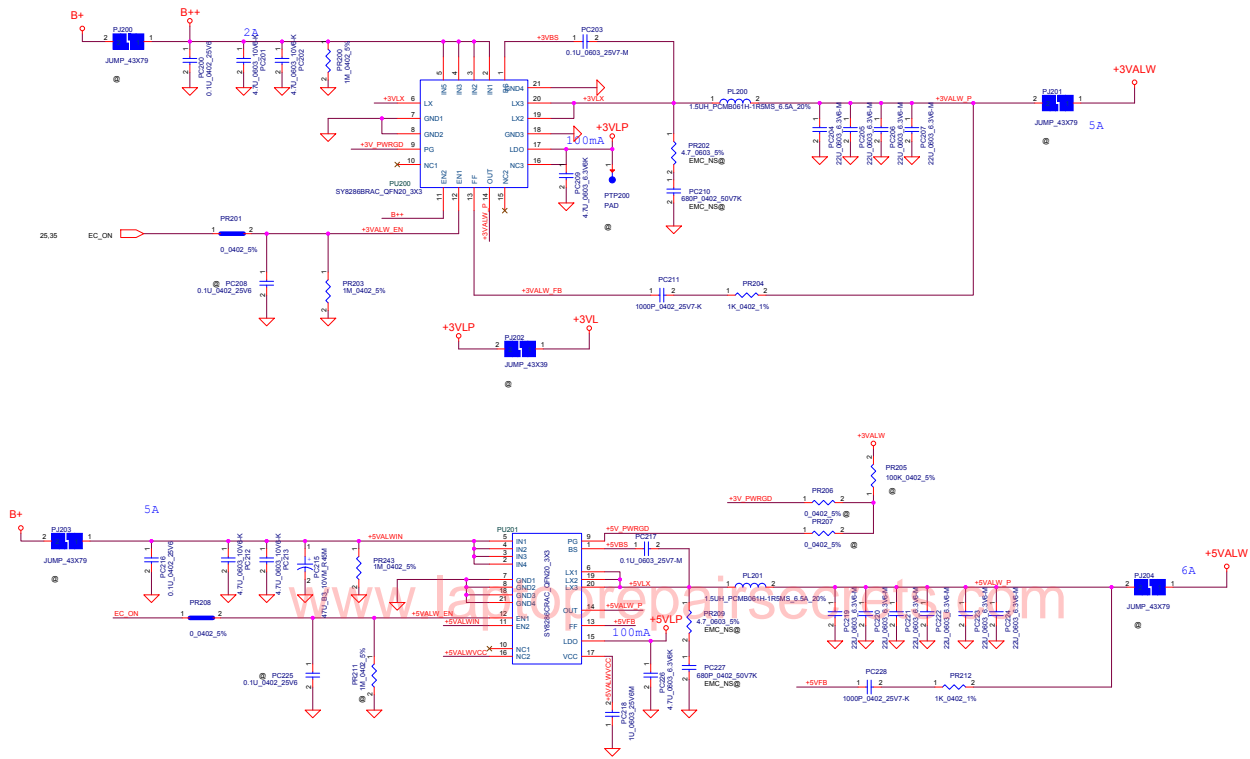
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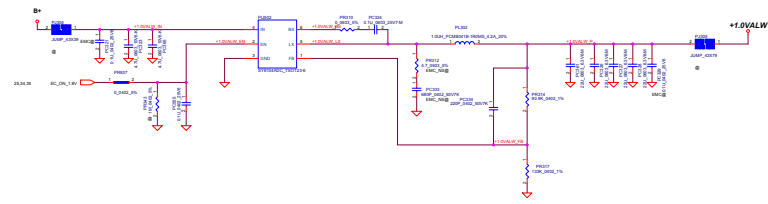
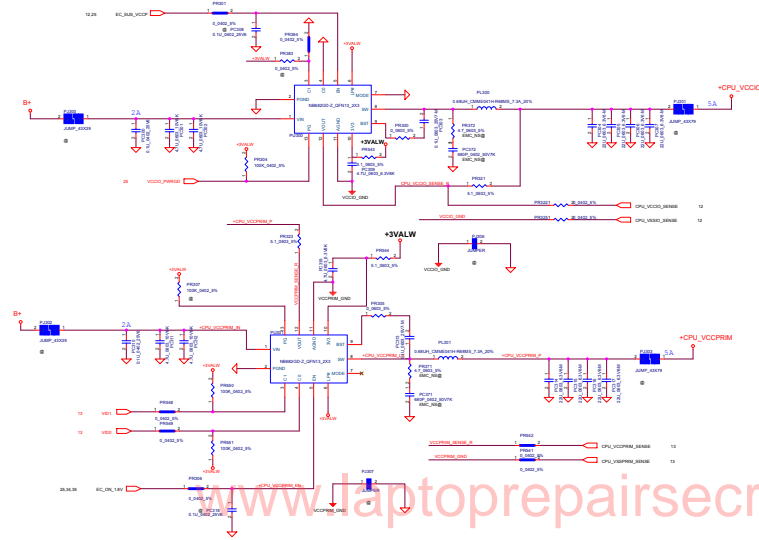
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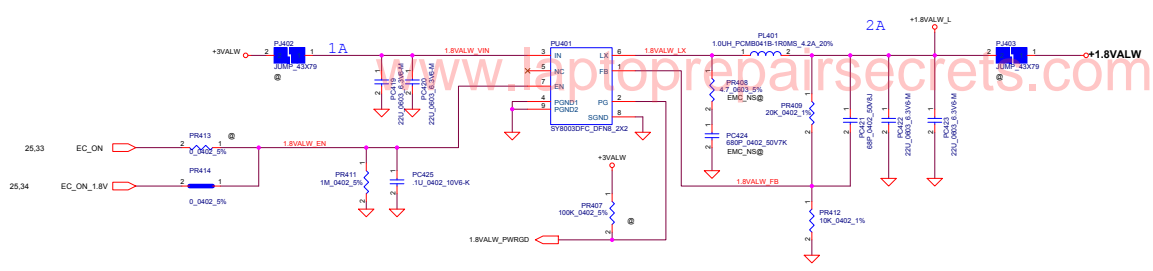
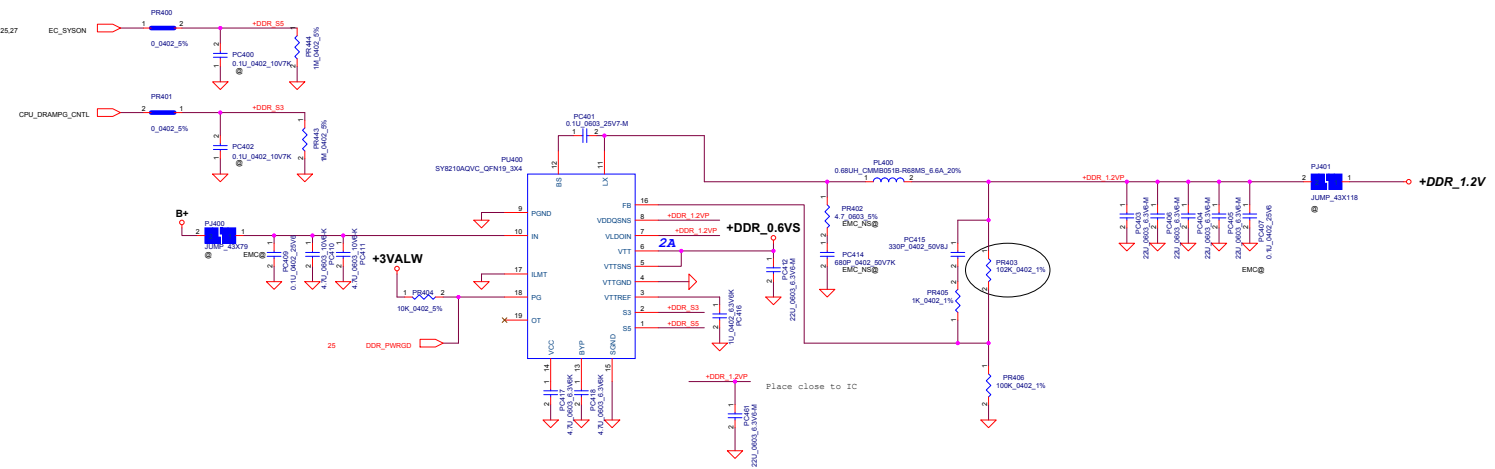


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