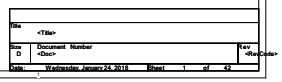
Sheet #	Content	Sheet #	Content
01.	Table of Content		
02.	Revision History		
03.	Block Diagram		
04.	GPIO Map		
05.	MSM8998_Control_Mem_IO		
06.	MSM8998_GPIO_SSC		
07.	MSM8998_MIPI_DSI_CSI_HDMI		
08.	MSM8998_RF_Interface		
09.	MSM8998_PWR1		
10.	MSM8998_PWR2		
11.	MSM8998_PWR3		
12.	MSM8998_GND_NC		
13.	PMI8998_Charge_FG		
14.	PMI8998_Buck_Boost_Flash		
15.	PMI8998_Control_GPIO_Haptics		
16.	Blank(Reserved Page)		
17.	PM8998_Bucks_1OF2		
18.	PM8998_Bucks_2OF2		
19.	PM8998_CLK_CNTRL_GPIO_AMUX		
20.	PM8998_LDOs		
21.	PM8005		
22.	Blank(Reserved Page)		
23.	LPDDR4/4x		
24.	UFS		
25.	WCD9340_Analog		
26.	WCD9340_Digital/WSA		
27.	Headphone board connector		
28.	Voice wake up		
29.	Depth camera FPC conn		
30.	Sensors&MCU		
31.	ALS FPC CONN		
32.	ANX7401		
33.	Battery conn		
34.	Test Point/GND/Shields		
35.	DP TO MIPI Bridge		
36.	USB TYPEC Bridge		
37.	USB typeC board connector		
38.	Right Display board connector		
39.	Left Display board connector		
40.	Main Camera		
41.	6 DOF Camera		
42.	Change list		

TABLE OF CONTENT



Revision History

REV	DESCRIPTION
0.1	EVT1.0 first release for review

Board Change History

SCHEMATIC MCN	HW VERSION	REVISION	DESCRIPTION OF CHANGE

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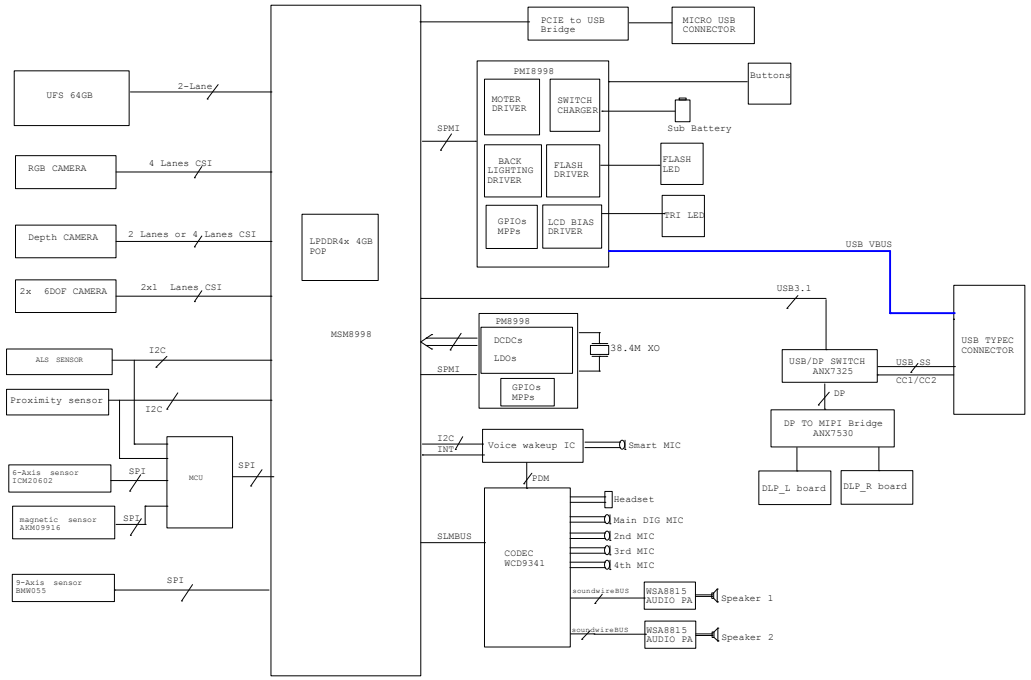
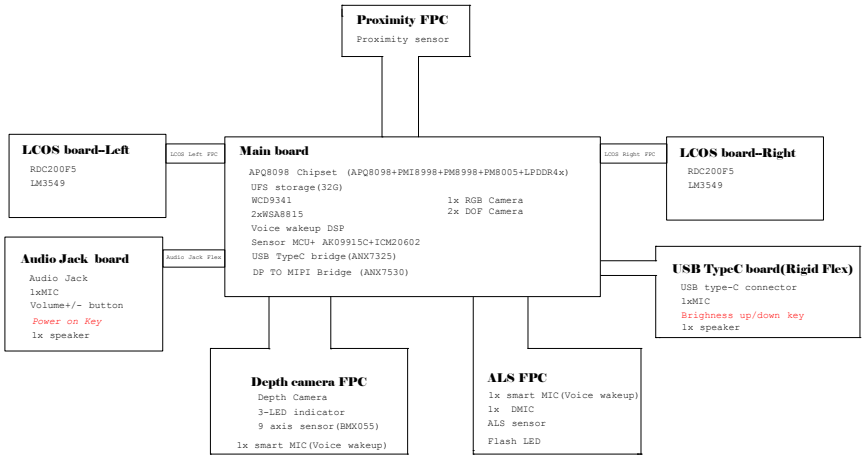
Size: D	Document Number <Doc>	Rev <RevCode>
Date: Wednesday, January 24, 2018	Sheet 2 of 42	

Schematic Block Diagram



PCB split definition:



Block Diagram

MSM8998 GPIO Configuration for Irongate HMD

GPIO_0	ANX7401_INTP	GPIO_41	6DOF_FRAME_SYNC	GPIO_82	MCU_SPI1_MISO
GPIO_1	ANX7401_RESET_N	GPIO_42	6DOFL_STROBE	GPIO_83	MCU_SPI1_CS
GPIO_2	BLSP1_I2C_SDA	GPIO_43	VOICE_LCD_I2C6_SDA	GPIO_84	MCU_SPI1_SCK
GPIO_3	BLSP1_I2C_SCL	GPIO_44	VOICE_LCD_I2C6_SCL	GPIO_85	VOICE_SPI_MOSI
GPIO_4	MSM_UART_TX	GPIO_45	NC	GPIO_86	VOICE_SPI_MISO
GPIO_5	MSM_UART_RX	GPIO_46	ANX7325_INTP_TO_AP	GPIO_87	VOICE_SPI_CS_N
GPIO_6	ANX7530_PWR_EN	GPIO_47	MICRO_USB_VBUS_EN	GPIO_88	VOICE_SPI_CLK
GPIO_7	ANX7530_RST_EN	GPIO_48	MICRO_USB_VBUS_OCB_EN	GPIO_89	VOICE_RESET_N
GPIO_8	ANX7401_PWR_EN	GPIO_49	NC	GPIO_90	ANX7401_1P8_EN
GPIO_9	ANX7401_CABLE_DET	GPIO_50	USBC_DET_TO_AP	GPIO_91	VOICE_WAKE_UP_N
GPIO_10	BLSP4_I2C_SDA	GPIO_51	NC	GPIO_92	NC
GPIO_11	BLSP4_I2C_SCL	GPIO_52	CAM_6DOF_2P8_EN	GPIO_93	CAM_6DOF_1P8_EN
GPIO_12	NC	GPIO_53	CODEC_INT2	GPIO_94	ANX7325_PWR_EN
GPIO_13	CAM_MCLK0	GPIO_54	CODEC_INT1	GPIO_95	NC
GPIO_14	CAM_MCLK1	GPIO_55	APPS_I2C7_SDA	GPIO_96	NC
GPIO_15	CAM_MCLK2	GPIO_56	APPS_I2C7_SCL	GPIO_97	NC
GPIO_16	CAM_MCLK3	GPIO_57	FORCE_USB_BOOT	GPIO_98	NC
GPIO_17	CCI_I2C_SDA0	GPIO_58	LED_L_FAULT	GPIO_99	NC
GPIO_18	CCI_I2C_SCL0	GPIO_59	LED_R_FAULT	GPIO_100	NC
GPIO_19	CCI_I2C_SDA1	GPIO_60	BLSP11_I2C_SDA	GPIO_101	GRFC4
GPIO_20	CCI_I2C_SCL1	GPIO_61	BLSP11_I2C_SCL	GPIO_102	GRFC5
GPIO_21	TOF_START	GPIO_62	MCU_SOC_INT	GPIO_103	GRFC6
GPIO_22	FL_STROBE_TRIG	GPIO_63	ANX7530_INT	GPIO_104	GRFC7
GPIO_23	TOF_EN_ILLUM	GPIO_64	CODEC_RESET_N	GPIO_105	NC
GPIO_24	TOF_VSEL_EN	GPIO_65	CODEC_SPI_S_DIN	GPIO_106	NC
GPIO_25	DEP_1V5_EN	GPIO_66	CODEC_SPI_S_DOUT	GPIO_107	NC
GPIO_26	NC	GPIO_67	CODEC_SPI_S_CSN	GPIO_108	NC
GPIO_27	NC	GPIO_68	CODEC_SPI_S_CLK	GPIO_109	GPIO109_WSA_R_EN
GPIO_28	CAM2_RSTN	GPIO_69	NC	GPIO_110	NC
GPIO_29	CAM1_STBYN	GPIO_70	LPASS_SLIMBUS_CLK	GPIO_111	GPIO111_WSA_L_EN
GPIO_30	CAM1_RSTN	GPIO_71	LPASS_SLIMBUS_DATA0	GPIO_112	NC
GPIO_31	LED_L_EN	GPIO_72	LPASS_SLIMBUS_DATA1	GPIO_113	UIM_BATT_ALARM
GPIO_32	LED_R_EN	GPIO_73	NC	GPIO_114	NC
GPIO_33	MCU_RST_N	GPIO_74	NC	GPIO_115	CONFIG_PWR_1P8
GPIO_34	6DOF_ULPM	GPIO_75	HARDWARE_ID_1	GPIO_116	NC
GPIO_35	PCIE_RESET_N	GPIO_76	HARDWARE_ID_2	GPIO_117	NC
GPIO_36	PCIE_CLKREQ_N	GPIO_77	HARDWARE_ID_3	GPIO_118	NC
GPIO_37	PCIE_WAKE_N	GPIO_78	NC	GPIO_119	NC
GPIO_38	CC_DIR (GND)	GPIO_79	NC	GPIO_120	PS_INT_N
GPIO_39	USB_BRIDGE_RESET_N	GPIO_80	NC	GPIO_121	NC
GPIO_40	6DOFR_STROBE	GPIO_81	MCU_SPI1_MOSI	GPIO_122	NC

GPIO_123	NC
GPIO_124	ALS_INT_N
GPIO_125	BRI_UP_KEY
GPIO_126	BRI_DOWN_KEY
GPIO_127	GRFC3_MDM
GPIO_128	NC
GPIO_129	NC
GPIO_130	NC
GPIO_131	L_RDC200_BOOT_FINISH
GPIO_132	L_RDC200_RSTB
GPIO_133	R_RDC200_BOOT_FINISH
GPIO_134	R_RDC200_RSTB
GPIO_135	NC
GPIO_136	NC

GPIO_137	NC
GPIO_138	NC
GPIO_139	NC
GPIO_140	NC
GPIO_141	NC
GPIO_142	NC
GPIO_143	ANX7530_1P0_EN
GPIO_144	NC
GPIO_145	NC
GPIO_146	PCIE_PWR_EN
GPIO_147	NC
GPIO_148	6DOFL_SHUTDOWN_L
GPIO_149	6DOFR_SHUTDOWN_R

PMI8998 GPIO Configuration for Irongate HMD

GPIO_1	NC	GPIO_6	NC	GPIO_11	NC
GPIO_2	NC	GPIO_7	NC	GPIO_12	DIV_CLK3
GPIO_3	NC	GPIO_8	NC	GPIO_13	NC
GPIO_4	NC	GPIO_9	GND	GPIO_14	NC
GPIO_5	NC	GPIO_10	NC		

PM8998 GPIO Configuration for Irongate HMD

GPIO_1	UIM_BATT_ALARM	GPIO_12	NC	GPIO_23	NC
GPIO_2	NC	GPIO_13	NC	GPIO_24	Option
GPIO_3	NC	GPIO_14	DIV_CLK2	GPIO_25	Option
GPIO_4	SSC_PWR_EN	GPIO_15	NC	GPIO_26	PM_SLB
GPIO_5	NC	GPIO_16	DIV_CLK3		
GPIO_6	VOL_UP_N	GPIO_17	NC		
GPIO_7	NC	GPIO_18	NC		
GPIO_8	NC	GPIO_19	NC		
GPIO_9	NC	GPIO_20	CAM_REAR_ON		
GPIO_10	NC	GPIO_21	NC		
GPIO_11	NC	GPIO_22	NC		

WCD9341 GPIO Configuration for Irongate HMD

GPIO_0	GND	GPIO_2	WSA_R_EN	GPIO_4	GND
GPIO_1	WSA_L_EN	GPIO_3	GND		

GPIO TABLE

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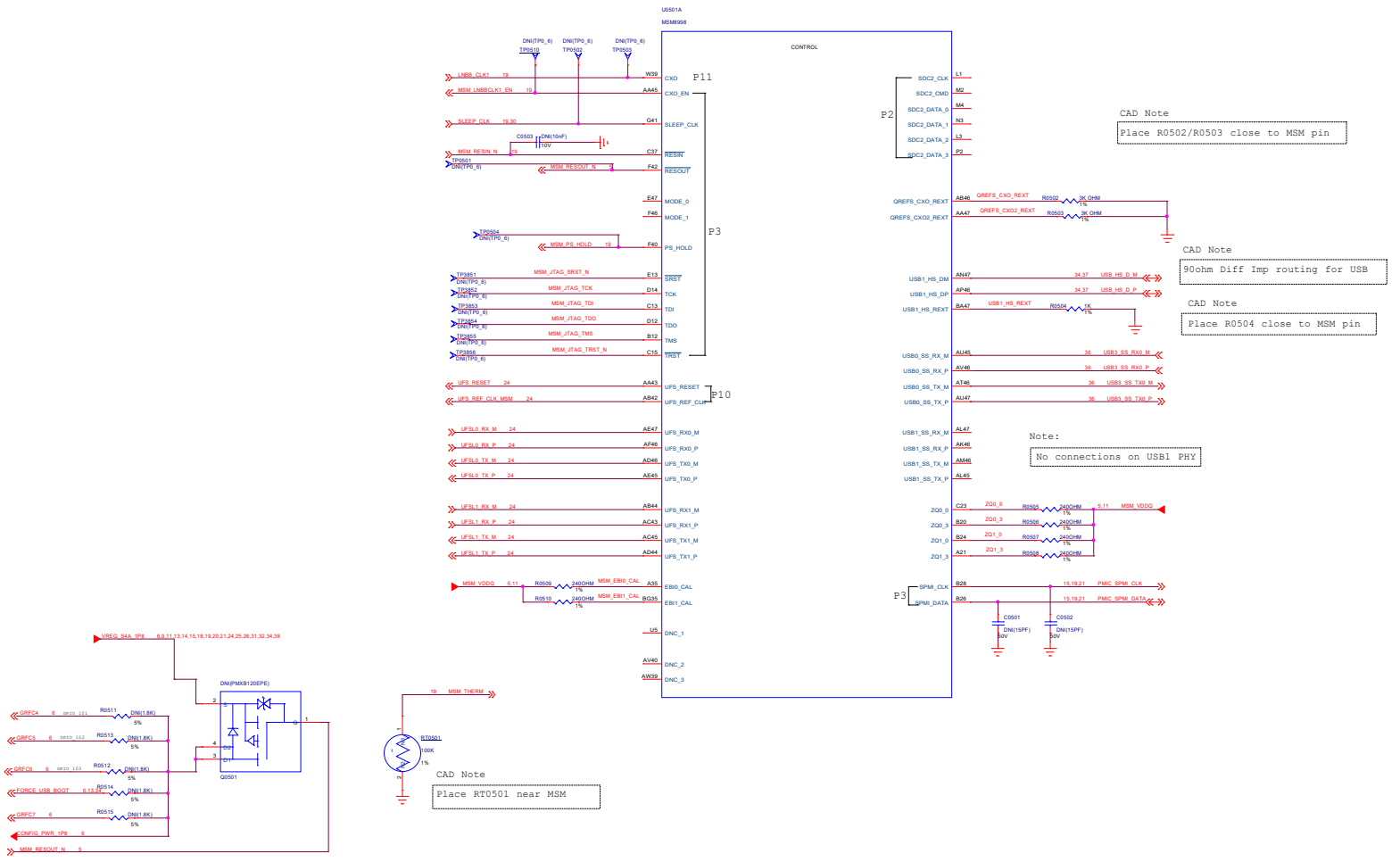
Date: Wednesday, January 24, 2018	Sheet 4 of 42		



GPIOs	BOOT_CONFIG
GPIO_101	MDOG 0 - Enable 1 - Disable
GPIO_102	BOOT_CONFIG[1]
GPIO_103	BOOT_CONFIG[2]
GPIO_104	BOOT_CONFIG[3]
GPIO_114	BOOT_CONFIG[4]

BOOT_CONFIG[4:1]	BOOT_CONFIG
0b0000(This design)	UFS-> SD SDC2 -> SD/HS/FS USB on USB2.1
0b0001	SD SDC2 -> UFS
0b0010	SDC2
0b0011	SD/HS/FS USB on USB3.1

MSM8998 CONTROL

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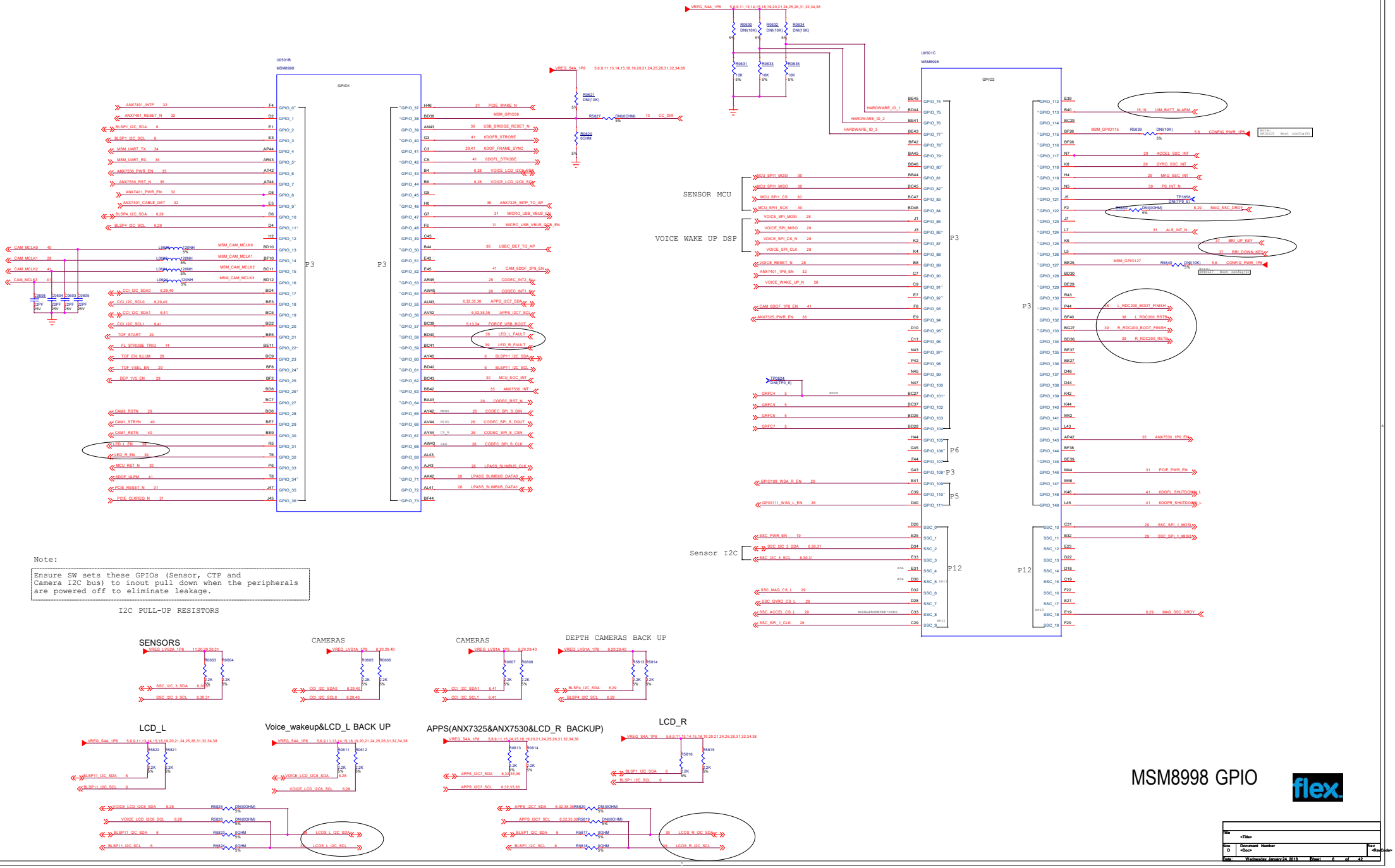
Size: D	Document Number: <Doc>		Rev: <RevCode>
Date: Wednesday, January 24, 2018	Sheet 5 of 42		


U0501B
MSM8998
GPIO1
P3
U0501C
MSM8998
GPIO2
P3
P6
P5
P12
SENSOR MCU
VOICE WAKE UP DSP
Sensor I2C
Note:
Ensure SW sets these GPIOs (Sensor, CTP and Camera I2C bus) to inout pull down when the peripherals are powered off to eliminate leakage.
I2C PULL-UP RESISTORS
SENSORS
CAMERAS
CAMERAS
DEPTH CAMERAS BACK UP
LCD_L
Voice_wakeup&LCD_L BACK UP
APPS(ANX7325&ANX7530&LCD_R BACKUP)
LCD_R
MSM8998 GPIO
flex
Title
<Title>
Size D
Document Number <Doc>
Rev <RevCode>
Date: Wednesday, January 24, 2018
Sheet 6 of 42

Note:

If best EMI practices are followed for MIPI CSI/DSI signals, there is no need for common mode choke filters. You may choose to have placeholders for common mode depending upon your design constraints.
Extreme care must be taken that no stubs are created by doing so.

MSM8998 MIPI CSI DSI/RF INTERFACE

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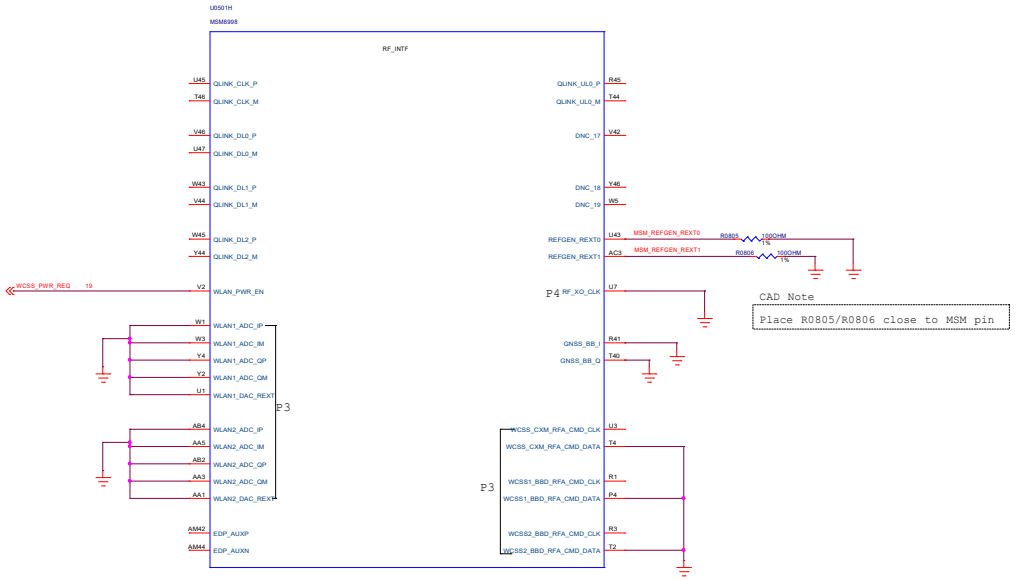
Title	<Title>	
Size: D	Document Number: <Doc>	Rev: <RevCode>
Date: Wednesday, January 24, 2018	Sheet 7 of 42	



MSM8998 RF

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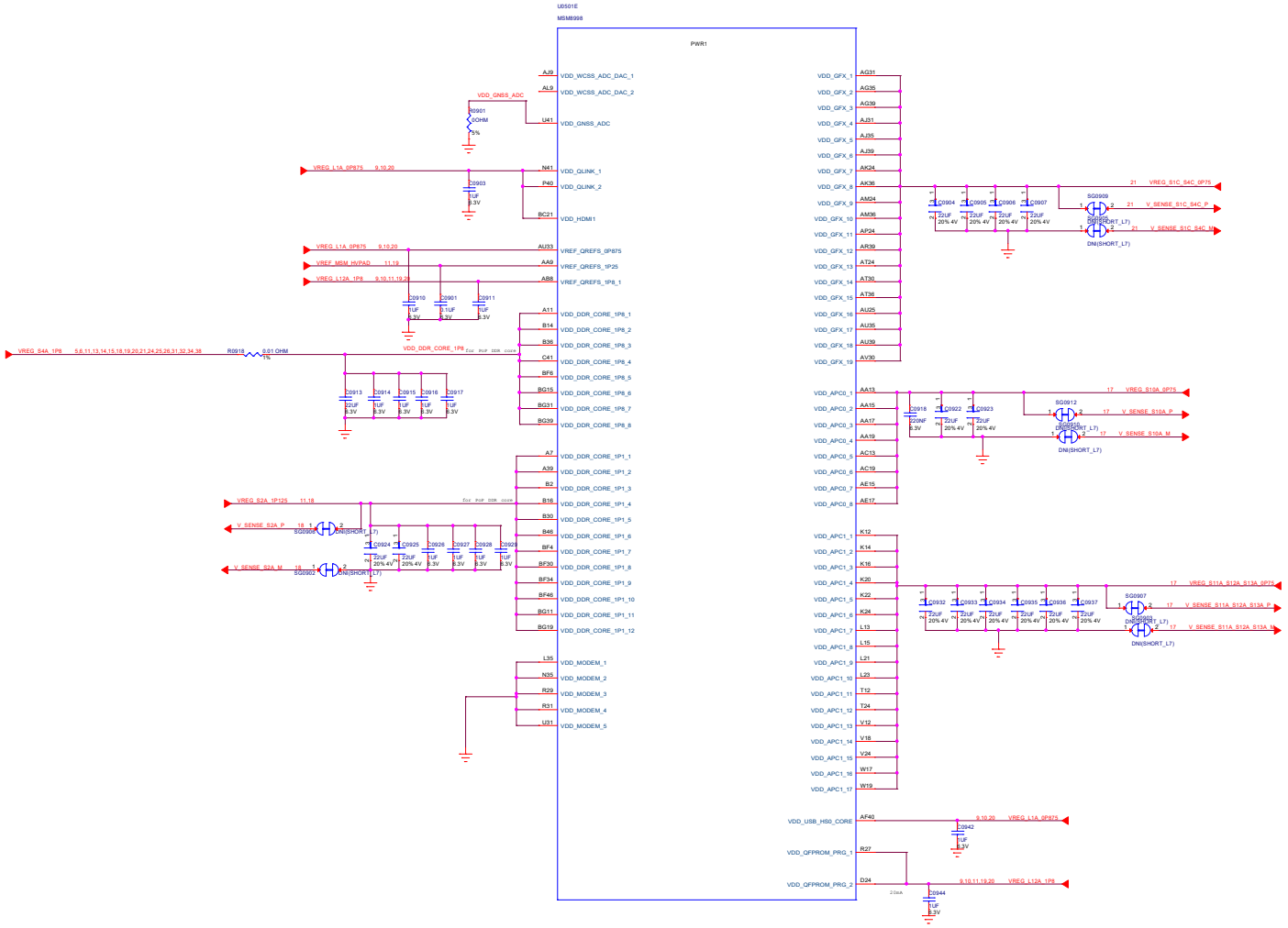
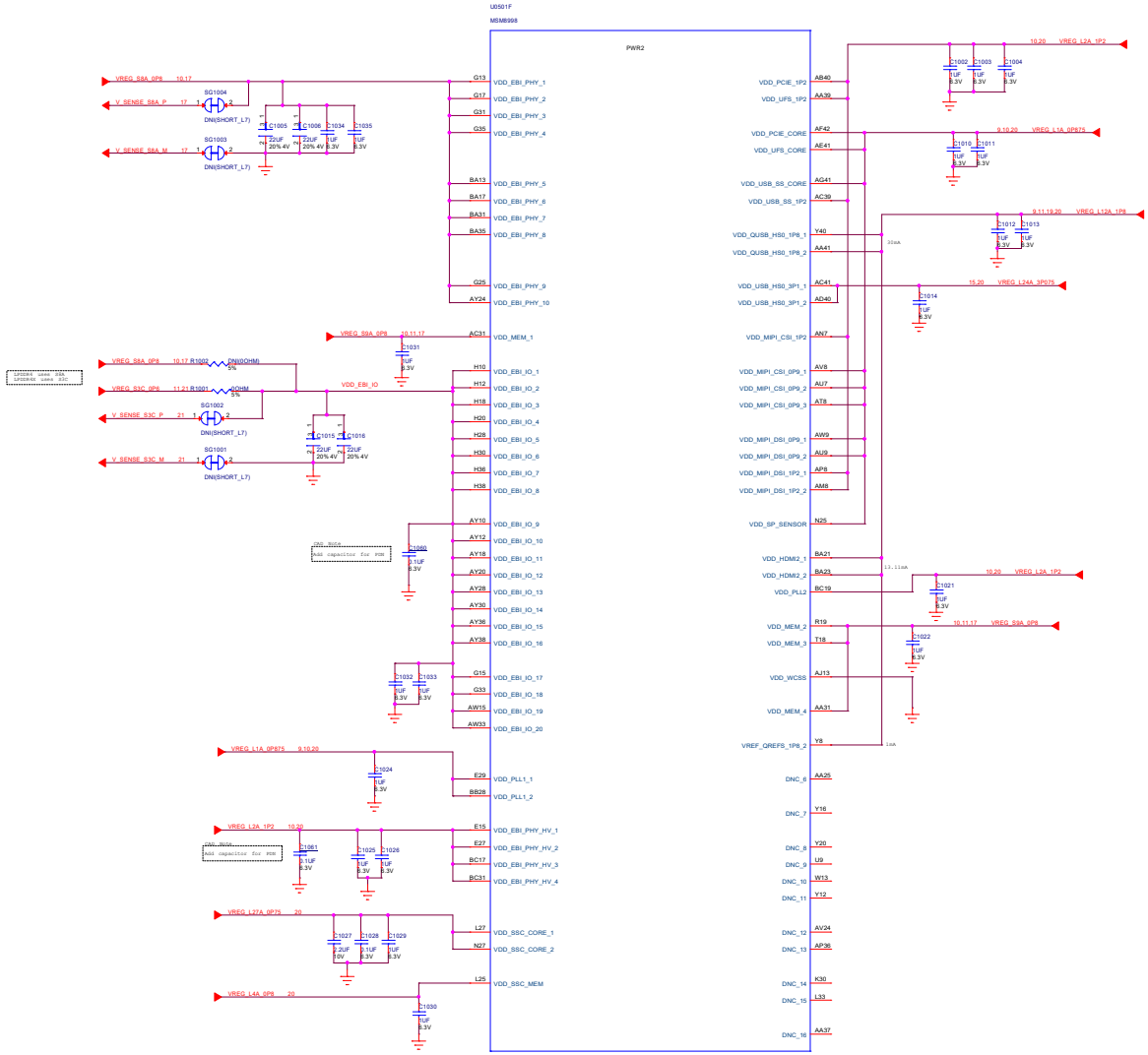
Date: Wednesday, January 24, 2018	Sheet 8 of 42	



MSM8998 POWER



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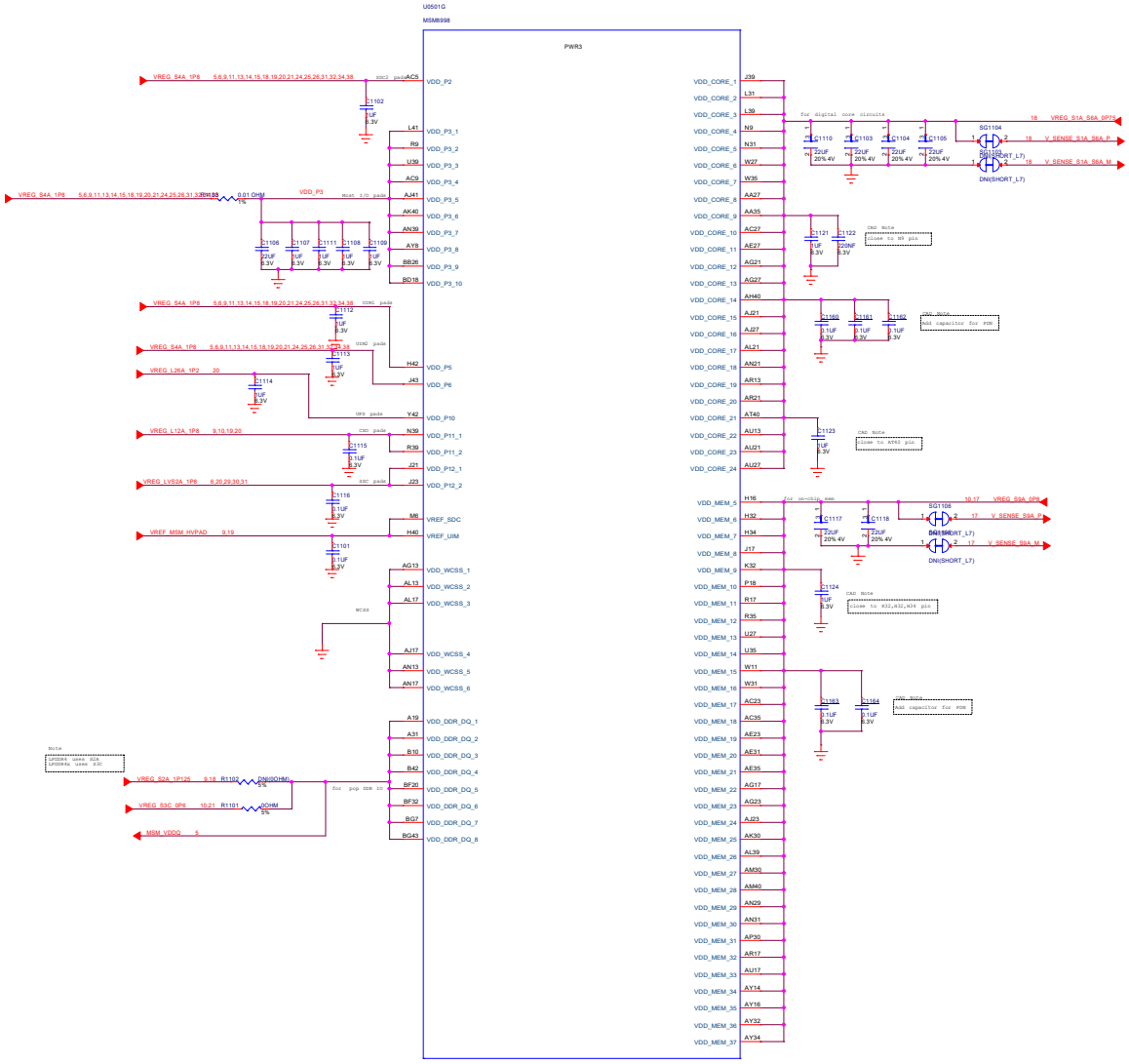

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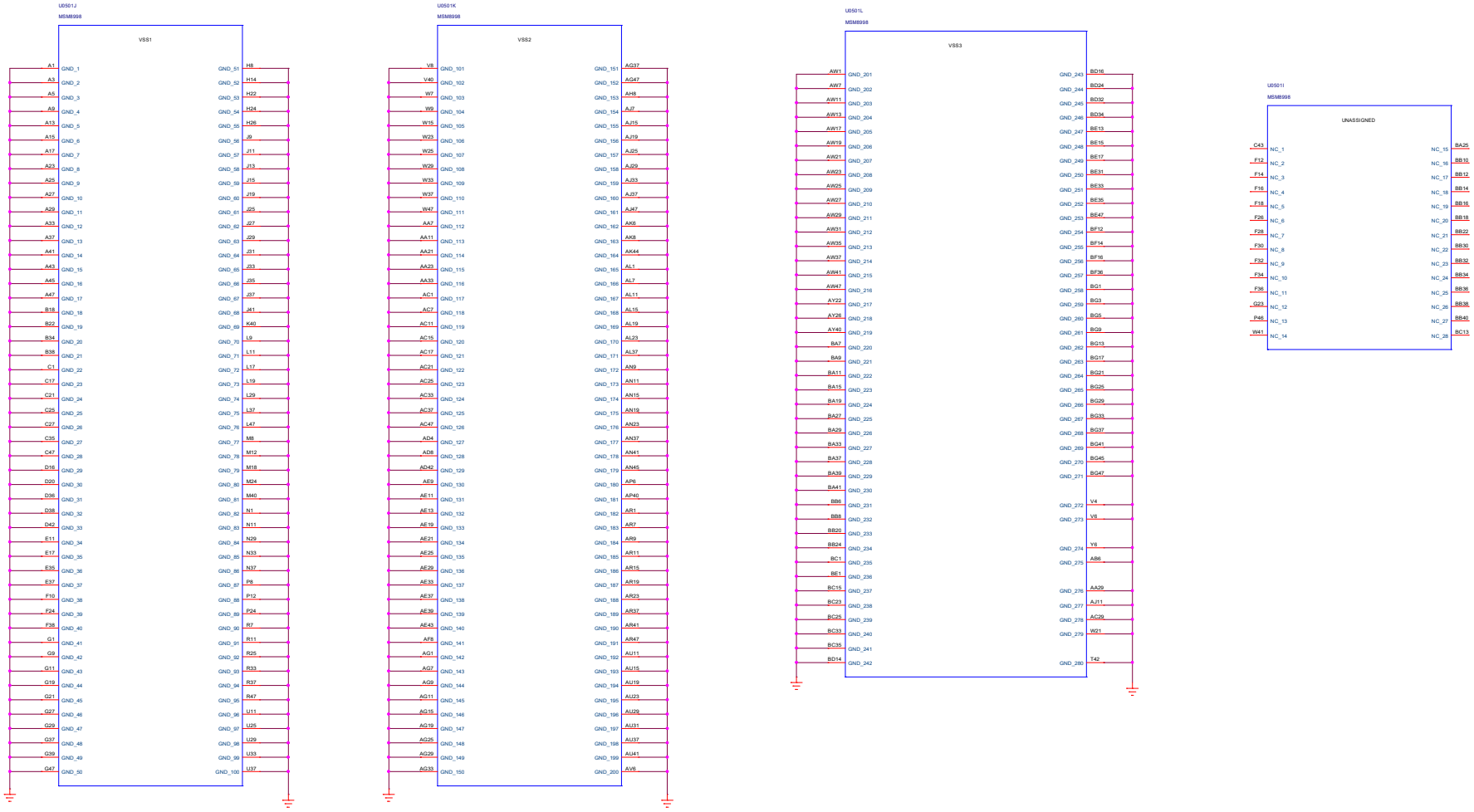
Date: Wednesday, January 24, 2018	Sheet 11 of 42		



MSM8998 GND

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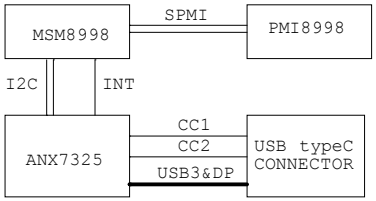
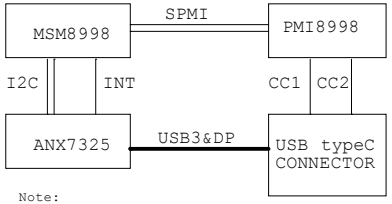
Date: Wednesday, January 24, 2018	Sheet 12 of 42	

USB TYPEC MAIN SOLUTION



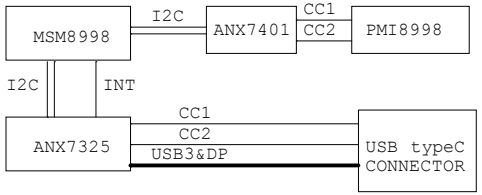
Note:
1.PMI8998 working under uUSB mode
2.Connect GPIO4 of PMI8998 to GND

USB TYPEC BACKUP SOLUTION 1

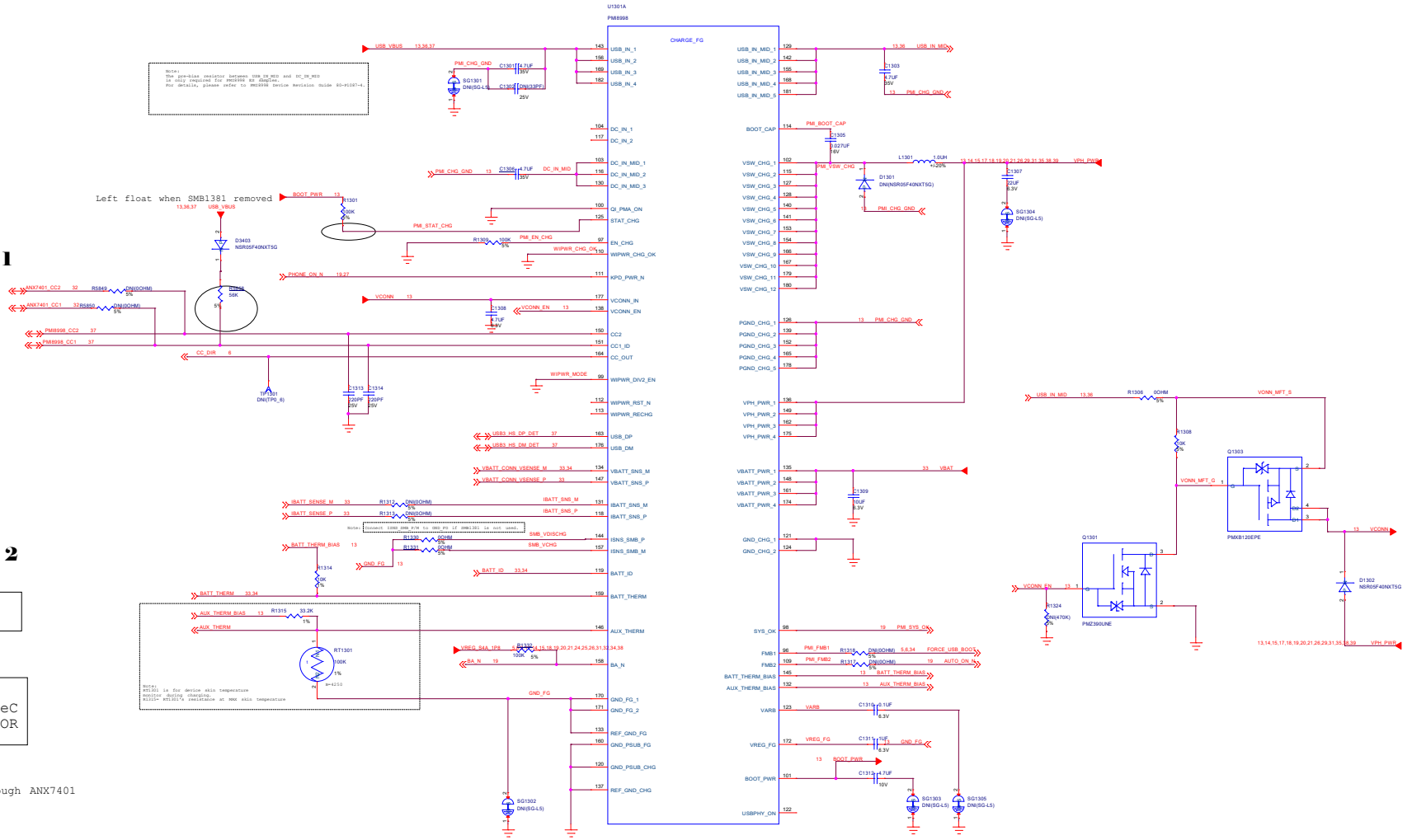


Note:
1.PMI8998 working under TypeC mode
2.Float PMI8998 GPIO4
3.PMI8998 transfer DP ALT infromation to ANX7325 through MSM8998

USB TYPEC BACKUP SOLUTION 2



Note:
1.PMI8998 working under TypeC mode
2.Float PMI8998 GPIO4
3.ANX7325 forward the PD information to PMI8998 through ANX7401



PMI8998_Charge_FG

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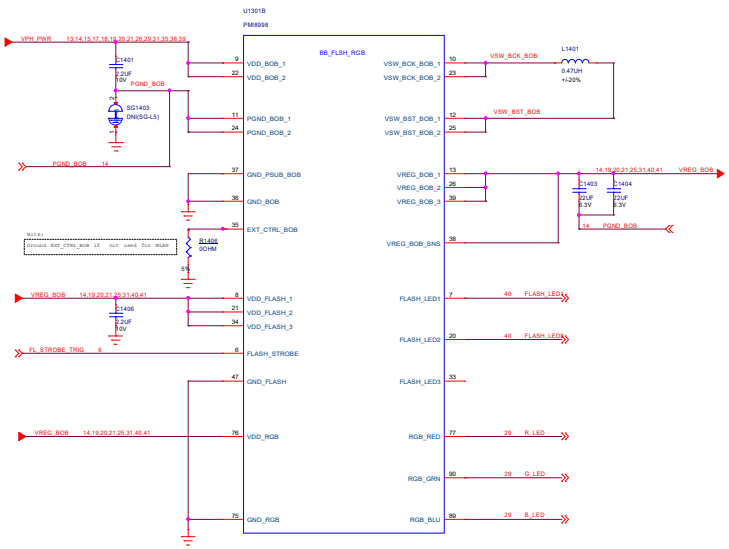
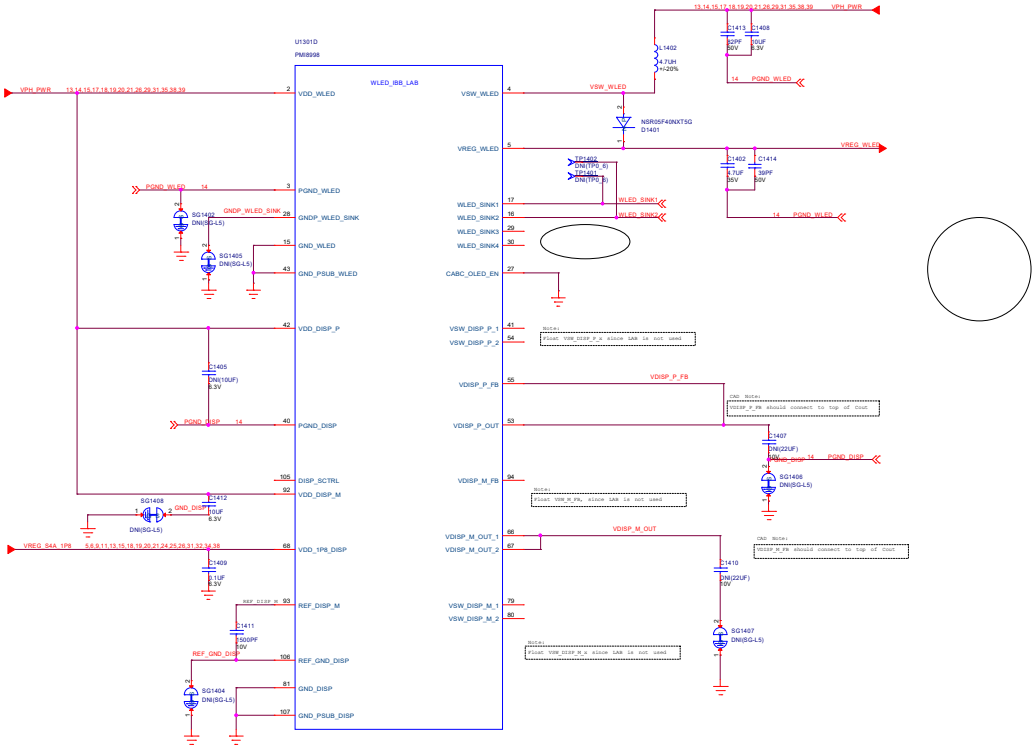
Date: Wednesday, January 24, 2018	Sheet 13 of 42	





PMI8998_Buck_Boost_Flash

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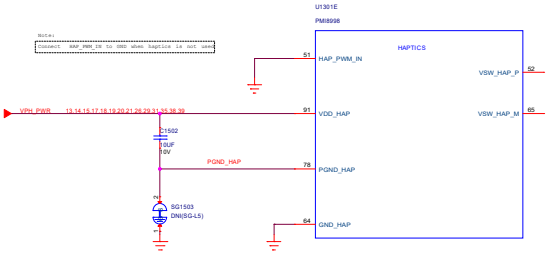
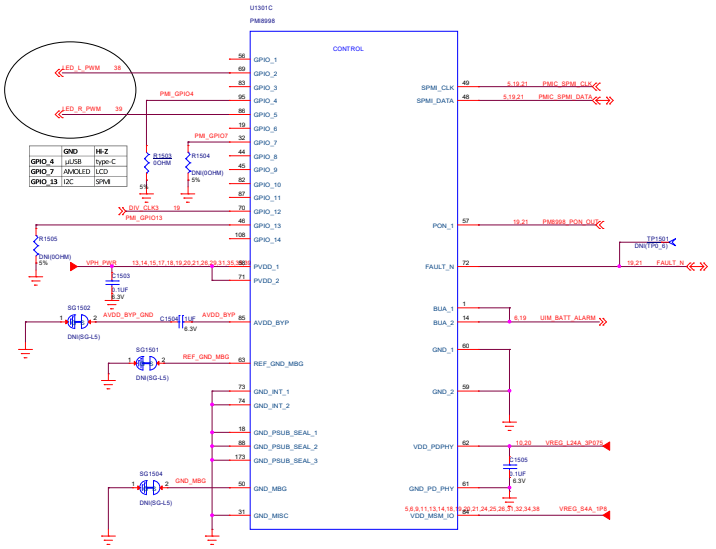
Date: Wednesday, January 24, 2018	Sheet 14 of 42	





PMi8998 CLKS_GPIO

Title	<Title>	
Size: D	Document Number: <Doc>	Rev: <RevCode>
Date: Wednesday, January 24, 2018	Sheet 15 of 42	

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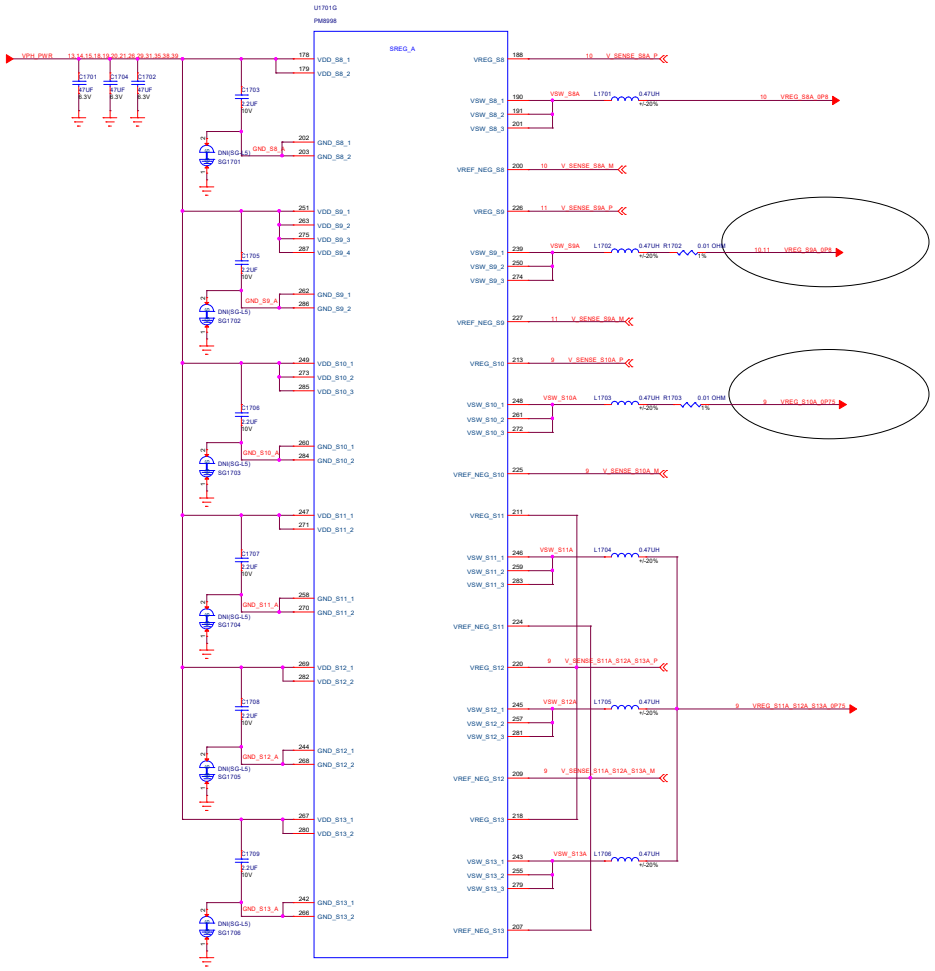
Size: D	Document Number: <Doc>	Rev: <RevCode>
Date: Wednesday, January 24, 2018	Sheet 18 of 42	



PM8998 Bucks (1 of 2)

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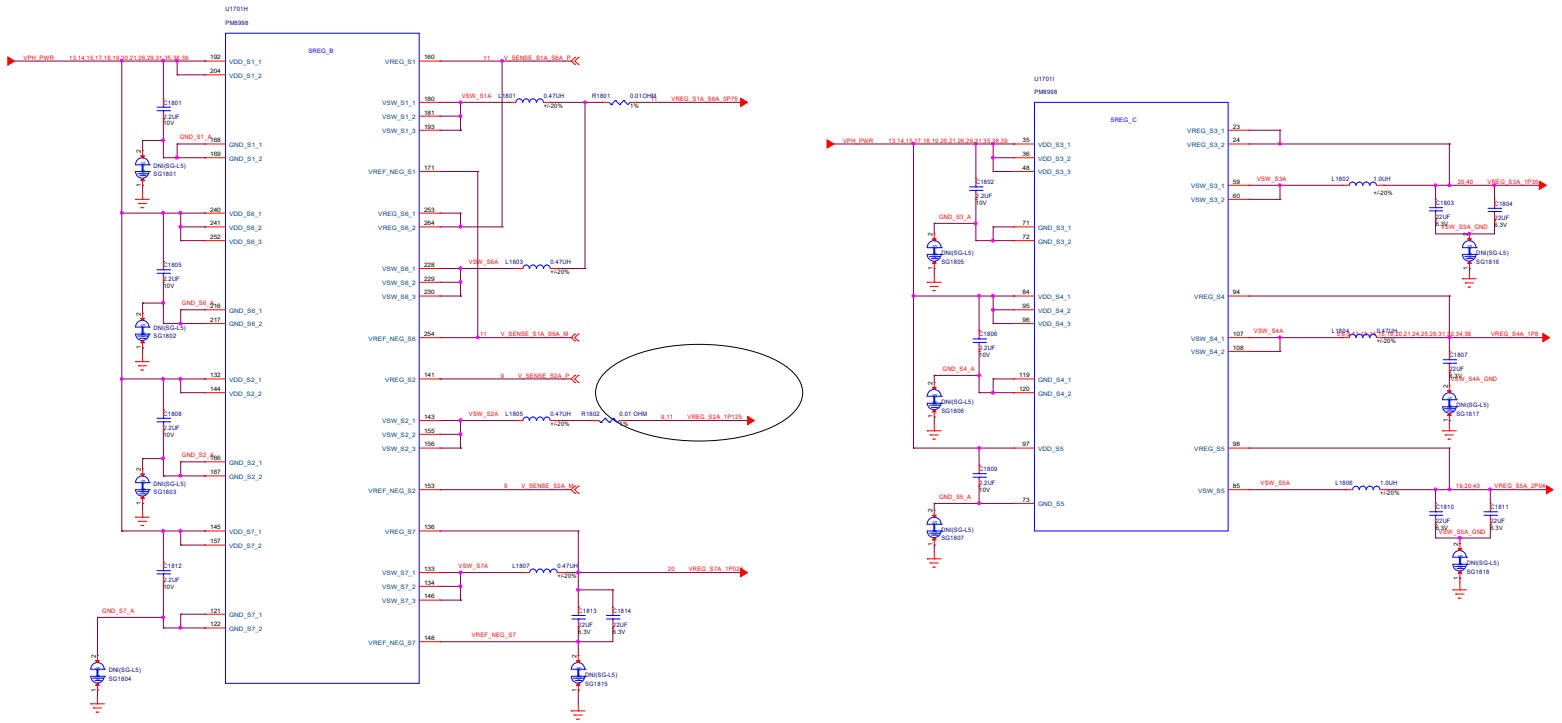
Date: Wednesday, January 24, 2018	Sheet 17 of 42	



PM8998 Bucks (2 of 2)

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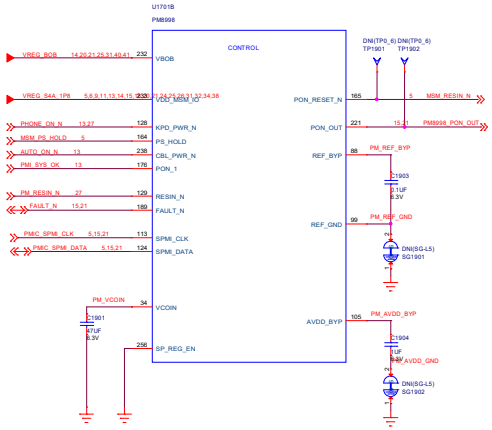
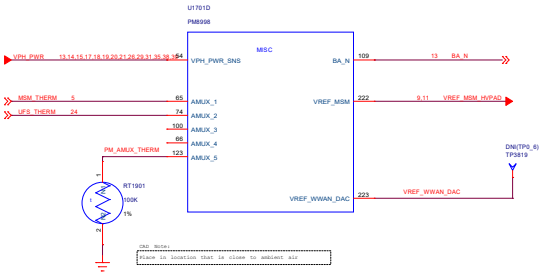
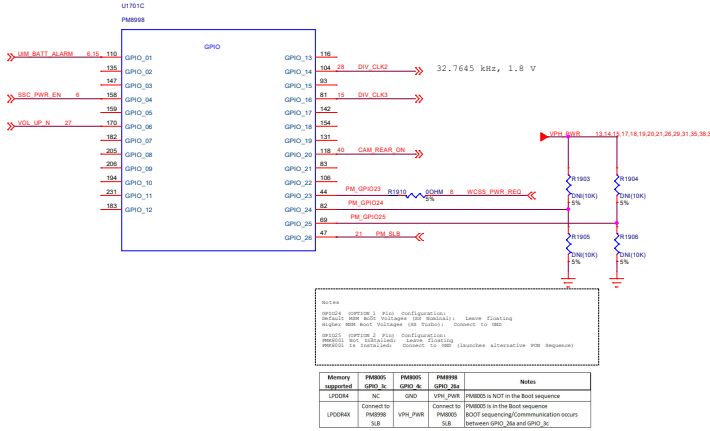
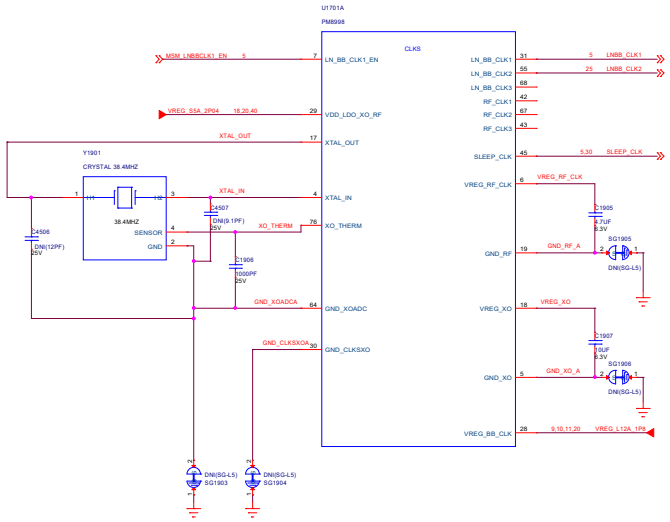
Date: Wednesday, January 24, 2018	Sheet 18 of 42		

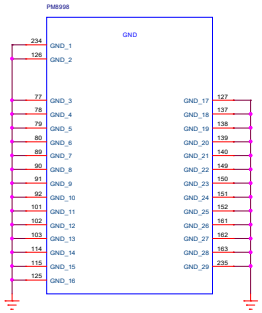


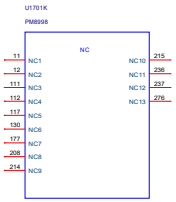




Memory supported	PM8005 GPIO_3c	PM8005 GPIO_4c	PM8998 GPIO_26a	Notes
LPDDR4	NC	GND	VPH_PWR	PM8005 is NOT in the Boot sequence
LPDDR4X	Connect to PM8998 SLB	VPH_PWR	Connect to PM8005 SLB	PM8005 is in the Boot sequence BOOT sequencing/Communication occurs between GPIO_26a and GPIO_3c

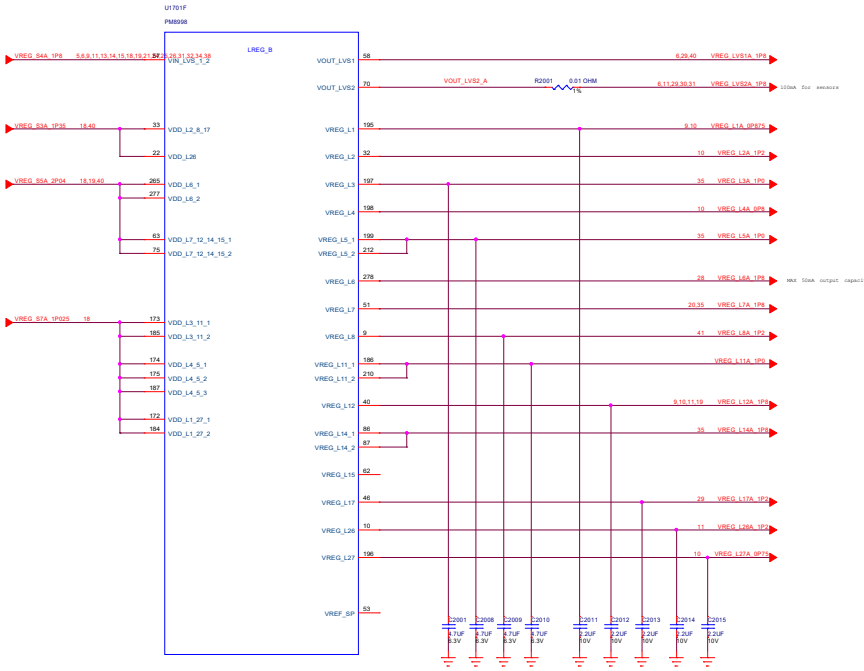


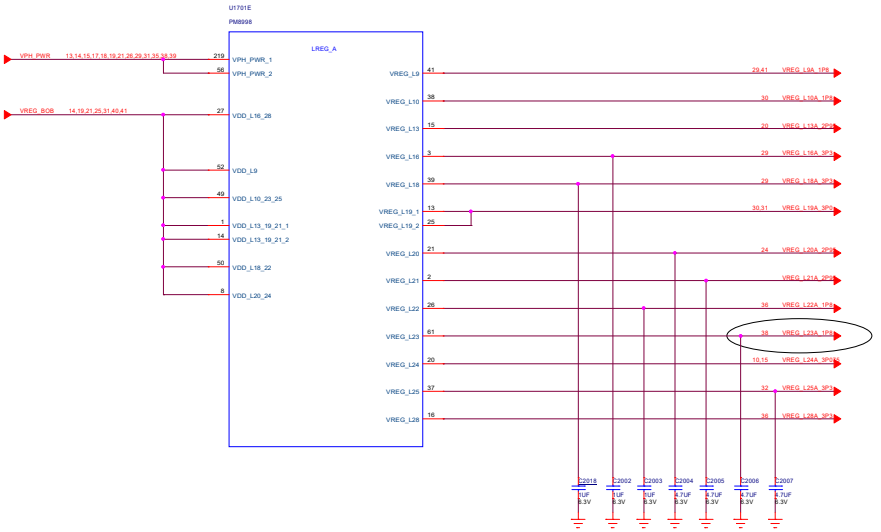


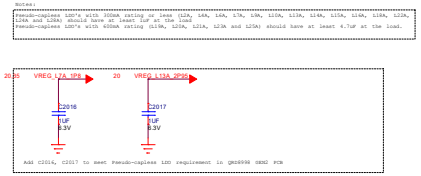


PM8998 Control

Title	<Title>		
Size D	Document Number <Doc>		Rev <RevCode>
Date: Wednesday, January 24, 2018	Sheet 19 of 42		





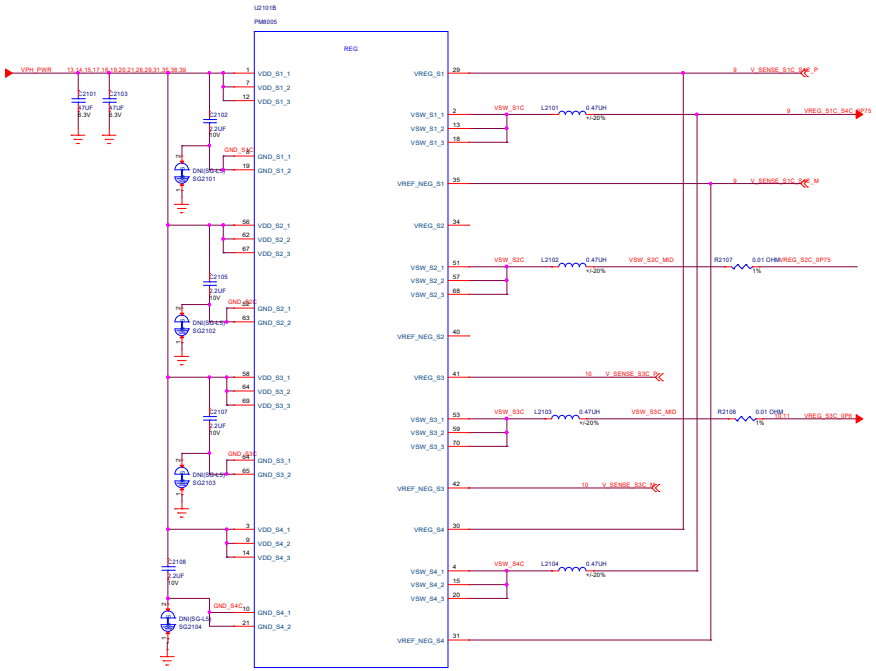


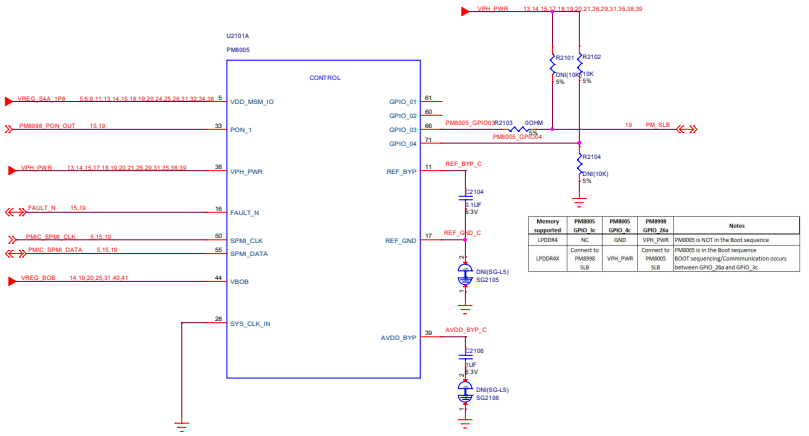
PMIC	Signal (poweron sequential order)
PM8998	PON trigger
PM8998	REF_BYP
PM8998	PON_OUT
PM8998	VREG_S5
PM8998	VREG_XO
PMI8998	VREG_BOB
PM8998	VREG_S9/VREG_S1/VREG_S8
PM8998	VREG_S3
PM8998	VREG_S7
PM8998	VREG_L11
PM8998	VREG_S4
PM8998	VREF_MSM
PM8998	VREG_L7
PM8998	VREG_L5
PM8998	VREG_L17
PM8998	VREG_L25
PM8998	SLEEP_CLK
PM8998	RF_CLK2
PM8998	GPIO14
PM8998	VREG_L12
PM8998	LN_BB_CLK1
PM8998	VREG_S2
PM8998	GPIO26A
PM8005	VREG_S3C
PM8998	VREG_L2
PM8998	VREG_L1
PM8998	VREG_L24
PM8998	VREG_L20
PM8998	VREG_L26
PM8998	VREG_L13
PM8998	VREG_L21
PM8998	VREG_S10
PM8998	PON_RESET_N

PM8998 LDO

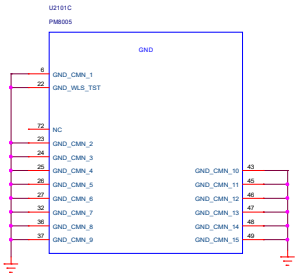
flex

Title	<Title>	
Size: D	Document Number: <Doc>	Rev: <RevCode>
Date: Wednesday, January 24, 2018	Sheet 20 of 42	





Memory supported	PM8005 GPIO_3c	PM8005 GPIO_4c	PM8998 GPIO_26a	Notes
LPDDR4	NC	GND	VPH_PWR	PM8005 is NOT in the Boot sequence
LPDDR4X	Connect to PM8998 SLB	VPH_PWR	Connect to PM8005 SLB	PM8005 is in the Boot sequence BOOT sequencing/Communication occurs between GPIO_26a and GPIO_3c



PM8005

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Size: D	Document Number: <Doc>		Rev: <RevCode>
Date: Wednesday, January 24, 2018	Sheet 21 of 42		

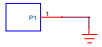
Reserved Page

Title: <Title>		
Size: D	Document Number: <Doc>	Rev: <RevCode>
Date: Wednesday, January 24, 2018	Sheet 22 of 42	

PCF LPDDR4x

U2301

K3UH5H50MM-NGCJ



LPDDR4x

flex

Title	<Title>	
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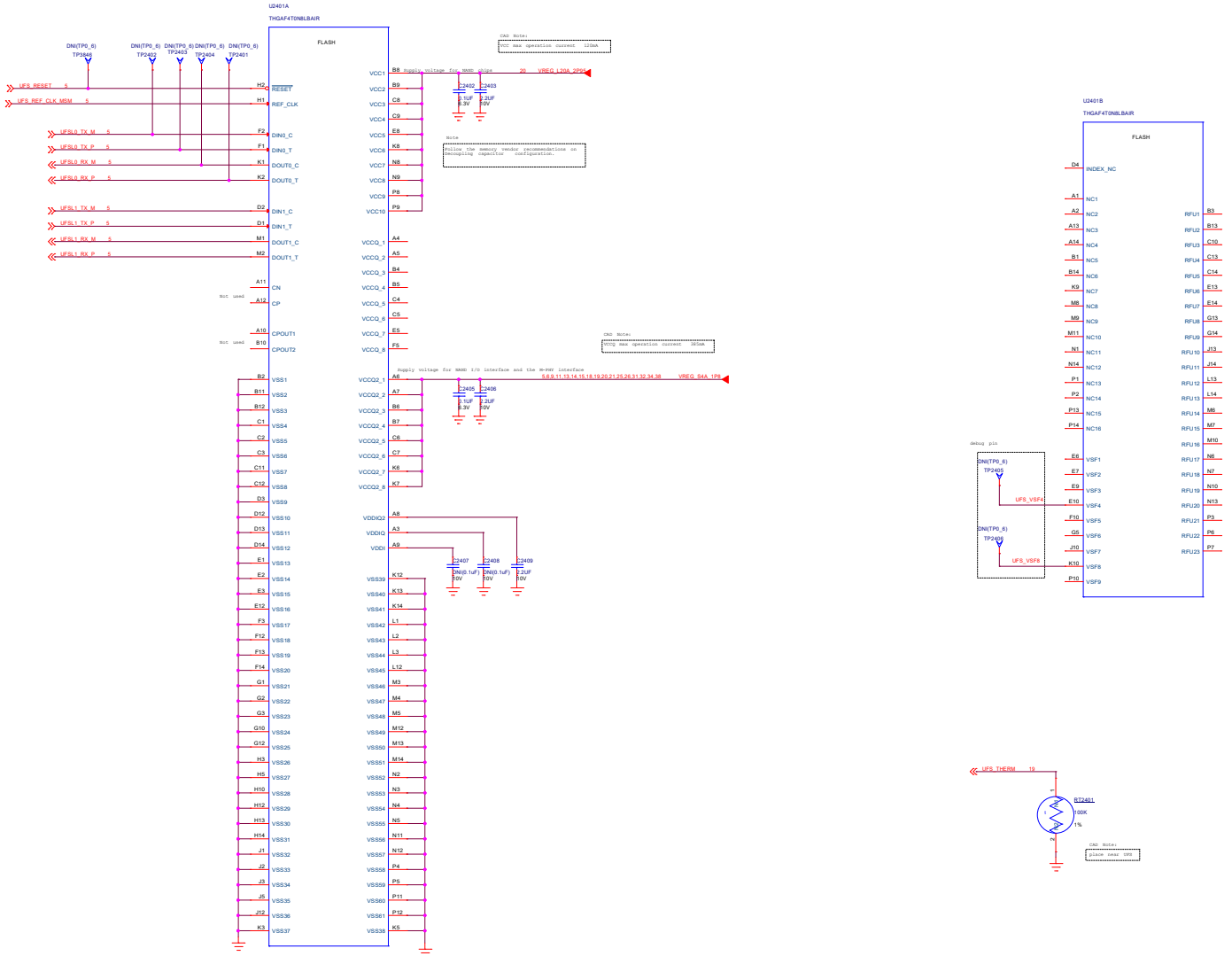
Date: Wednesday, January 24, 2018	Sheet 25 of 42	



MEMORY UFS

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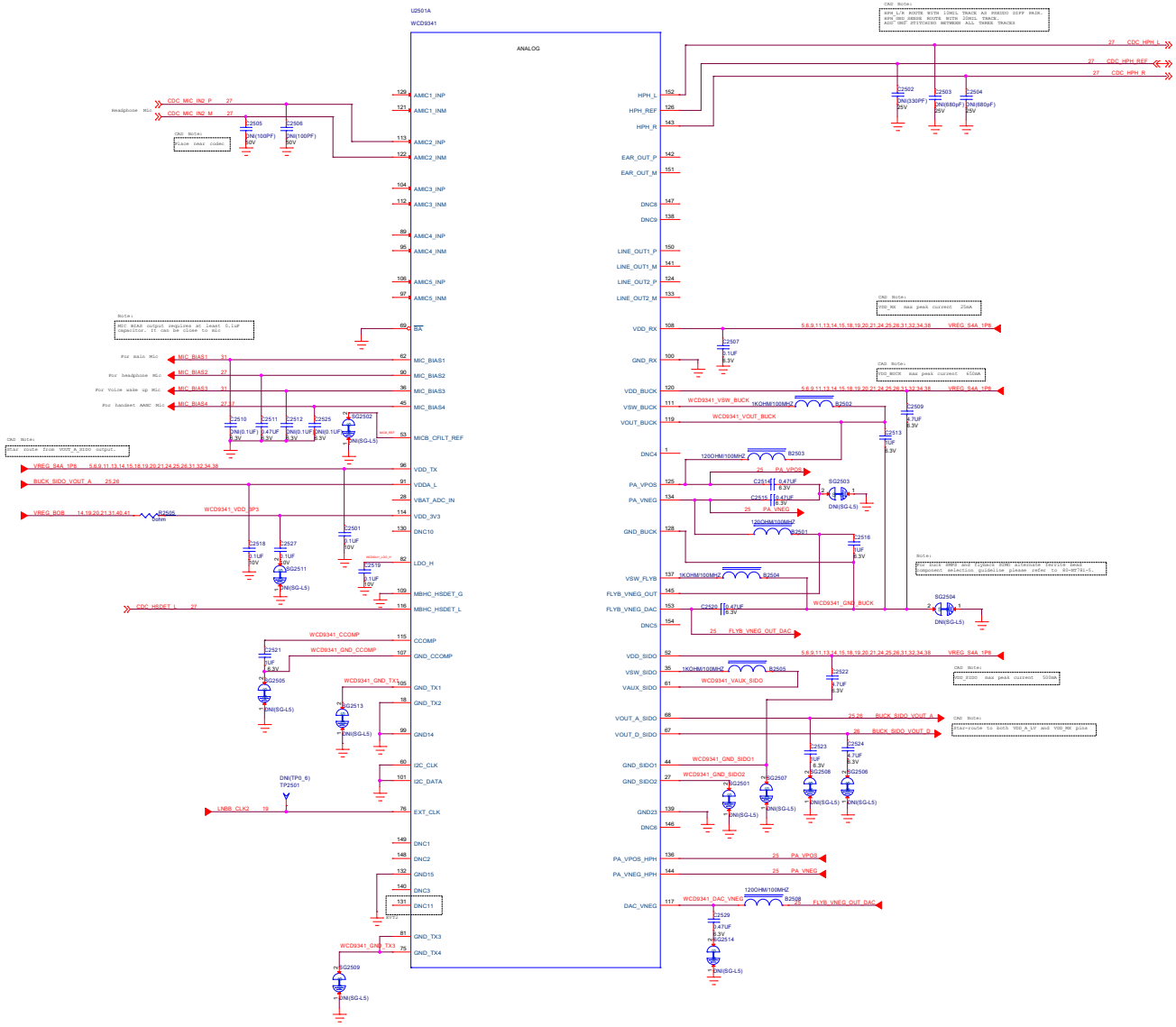
Date: Wednesday, January 24, 2018	Sheet 24 of 42		



WCD9341 ANALOG

flex

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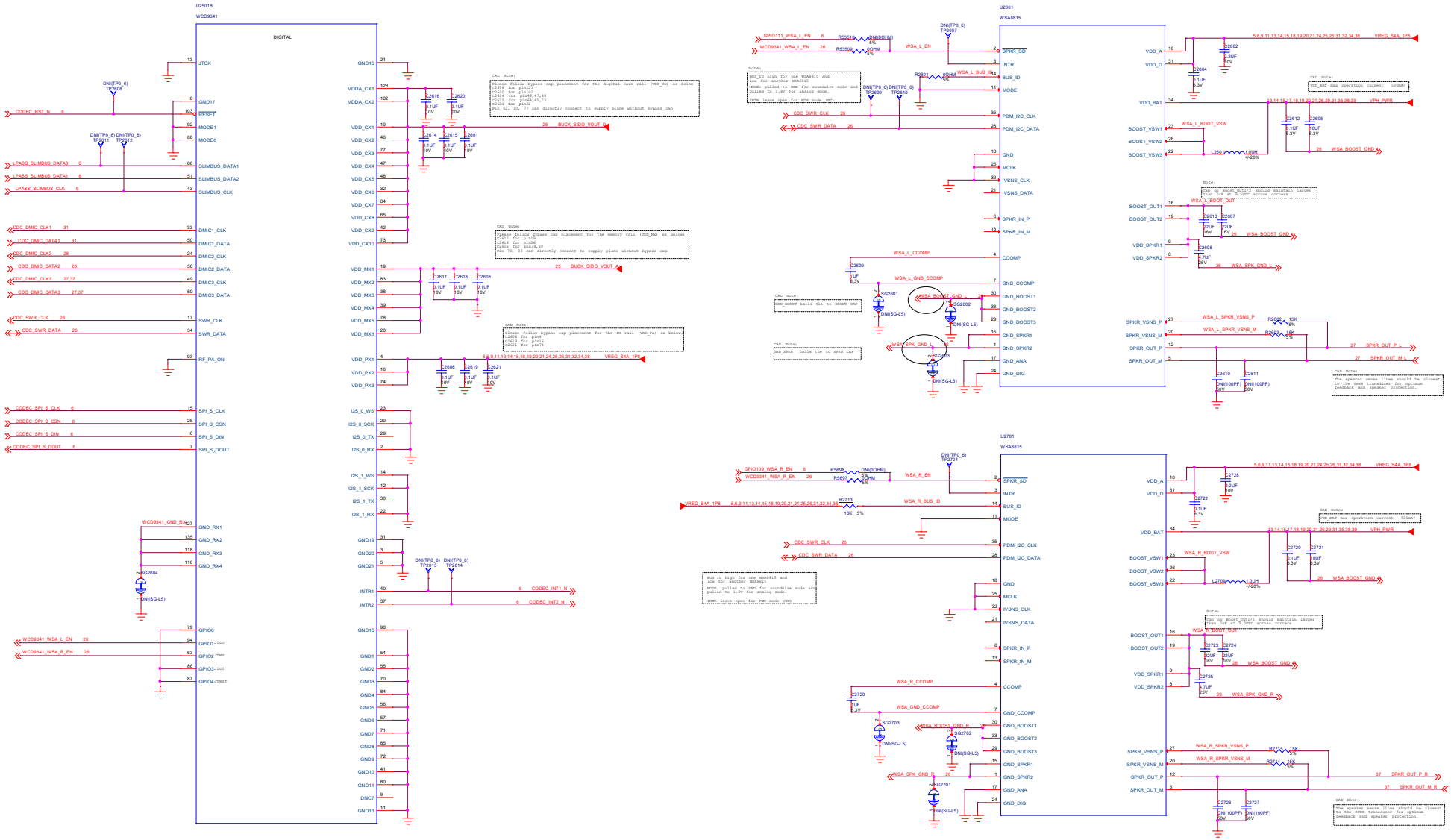
Size: D	Document Number: <Doc>		Rev: <RevCode>
Date: Wednesday, January 24, 2018	Sheet 25 of 42		



WCD9341 DIGITAL/WSA

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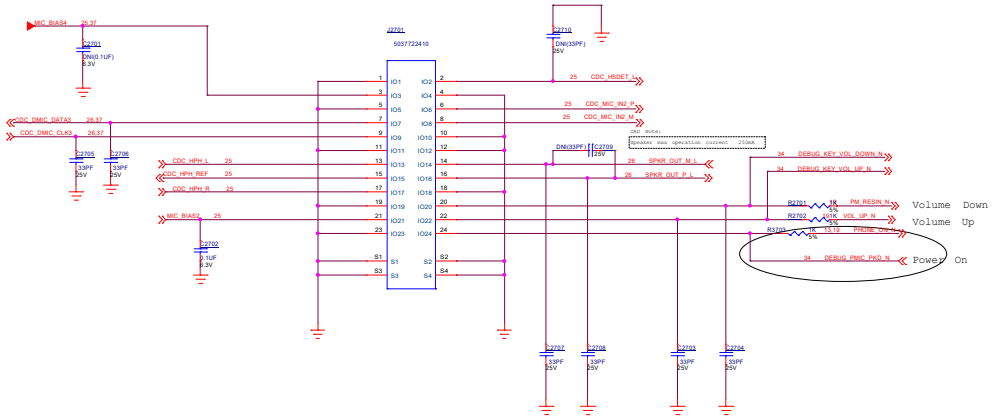
Date: Wednesday, January 24, 2018	Sheet 26 of 42	



Headphone board connector

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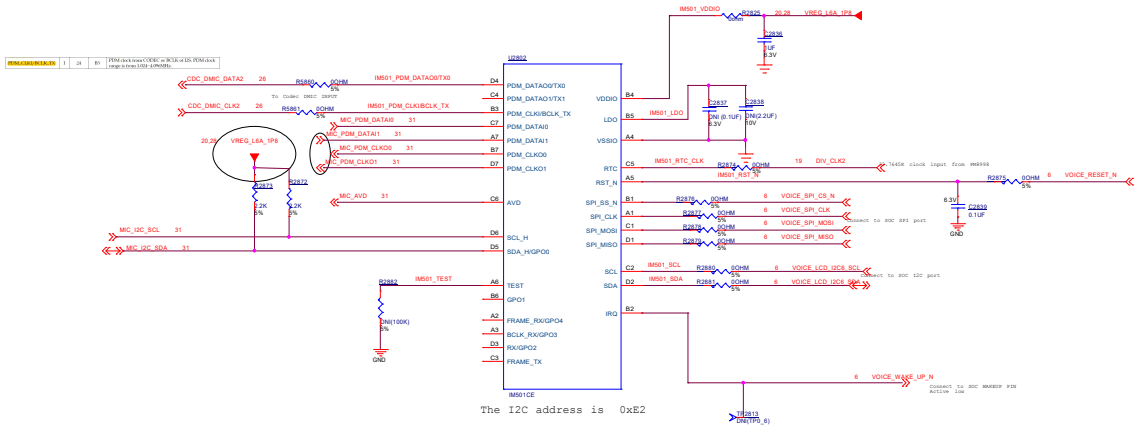
Date: Wednesday, January 24, 2018	Sheet 27 of 42	



Voice wake up DSP

flex

Title	<Title>		
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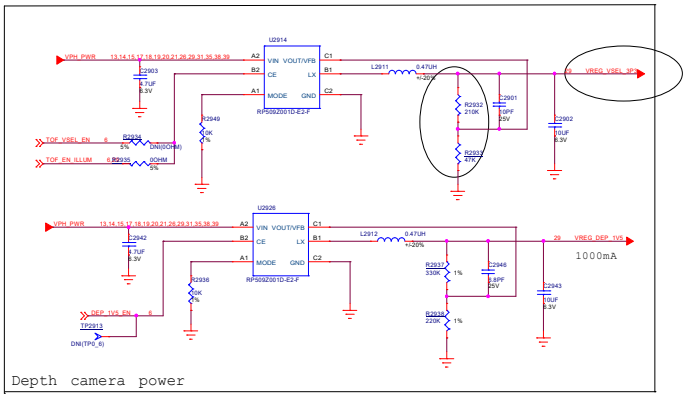
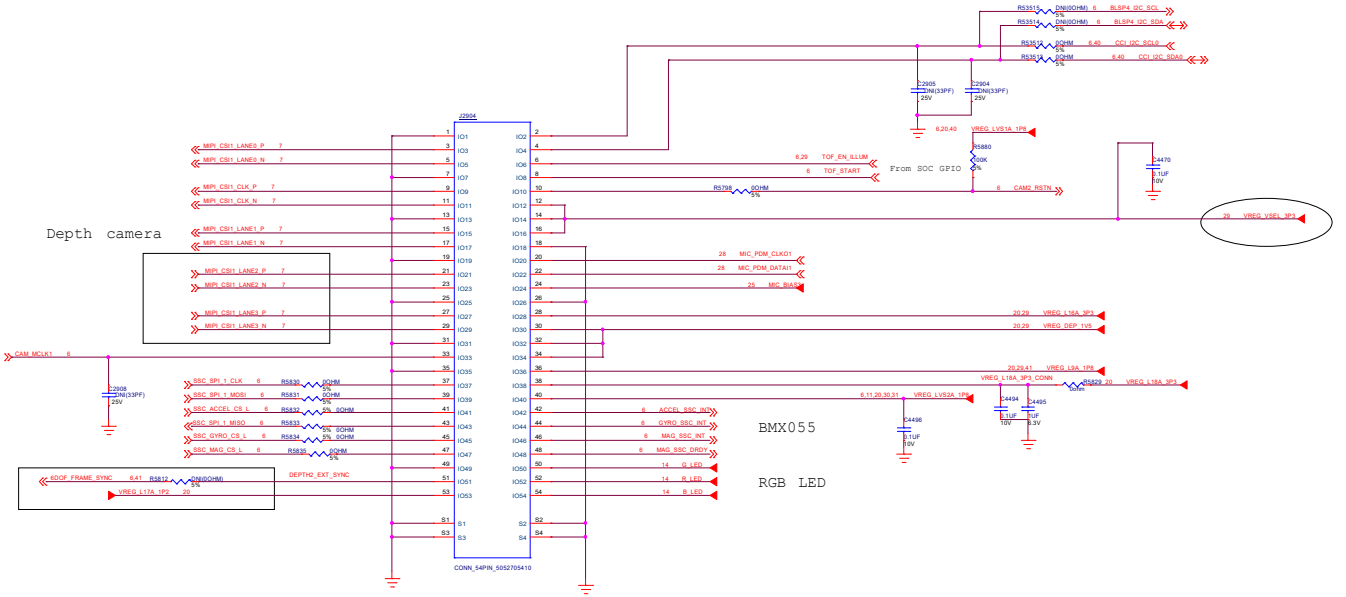
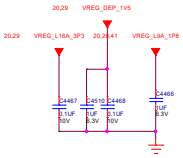
Date: Wednesday, January 24, 2018	Sheet 28 of 42		







flex

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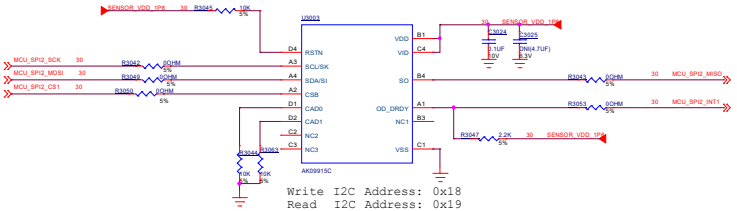
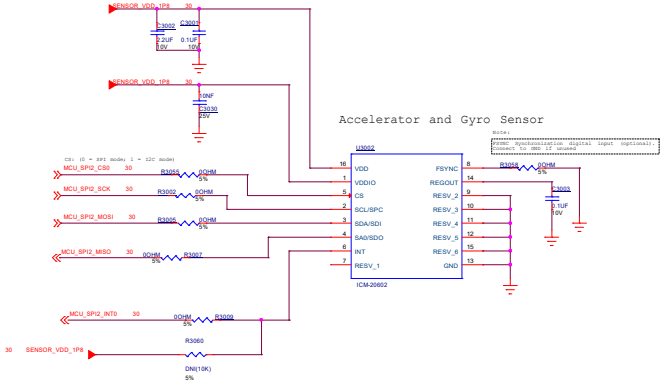
Size: D	Document Number: <Doc>	Rev: <RevCode>
Date: Wednesday, January 24, 2018	Sheet 29 of 42	

Sensors

Magnetic Sensor

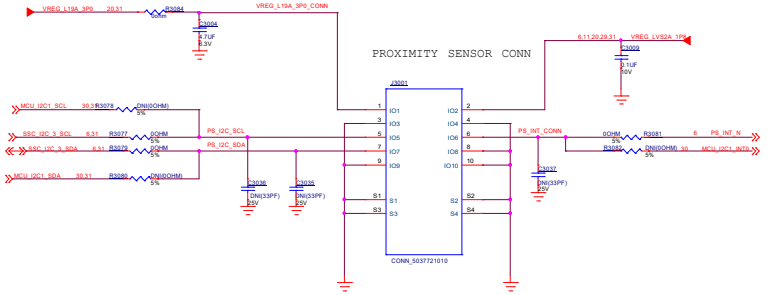


Accelerator and Gyro Sensor



ALS sensor on camera board

PROXIMITY SENSOR CONN

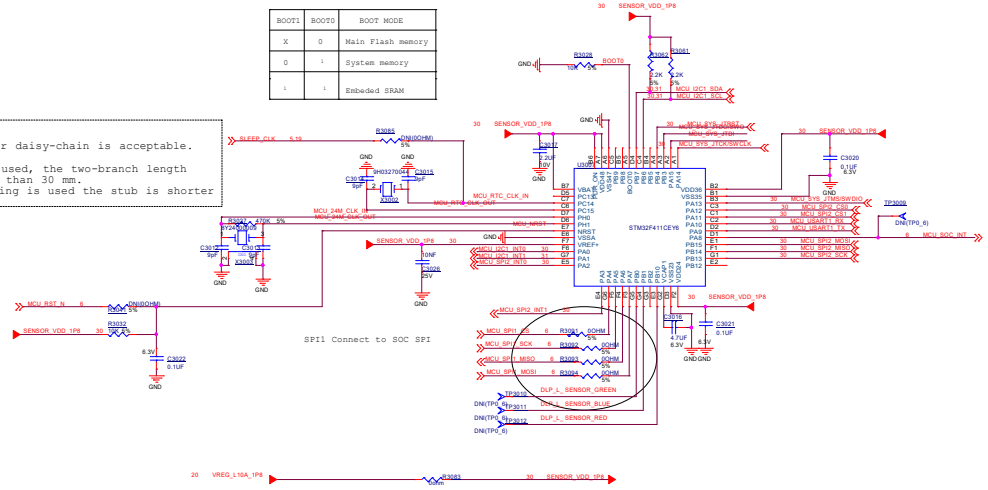


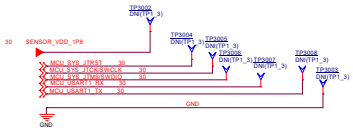
BOOT1	BOOT0	BOOT MODE
X	0	Main Flash memory
0	1	System memory
1	1	Embeded SRAM

CAD Note

SLEEP_CLK .
Either star routing or daisy-chain is acceptable.

- If star routing is used, the two-branch length difference is shorter than 30 mm.
- If daisy-chain routing is used the stub is shorter than 7 mm.

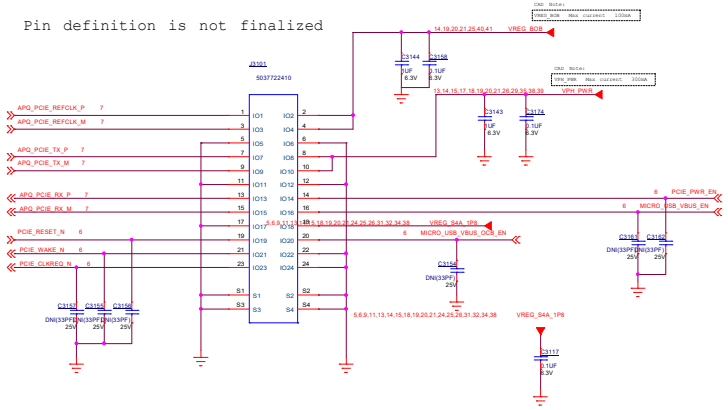


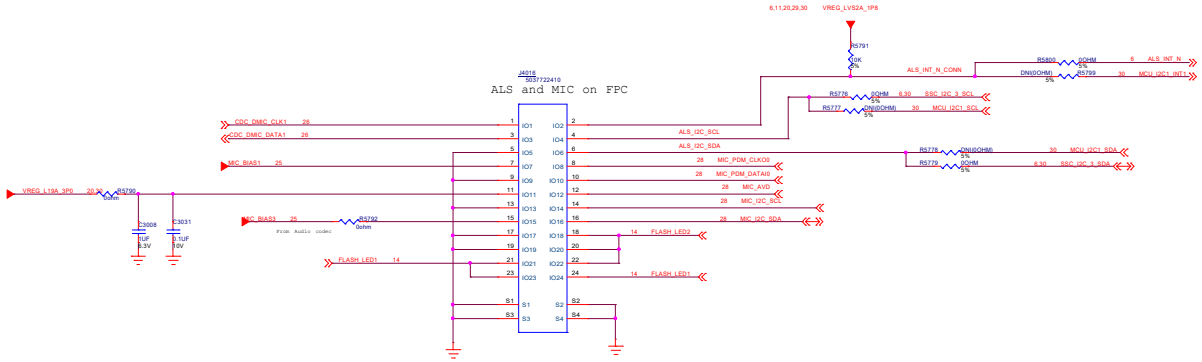


SENSORS&MCU

Title	<Title>		
Size: D	Document Number: <Doc>		Rev: <RevCode>
Date: Wednesday, January 24, 2018	Sheet 30 of 42		

Pin definition is not finalized





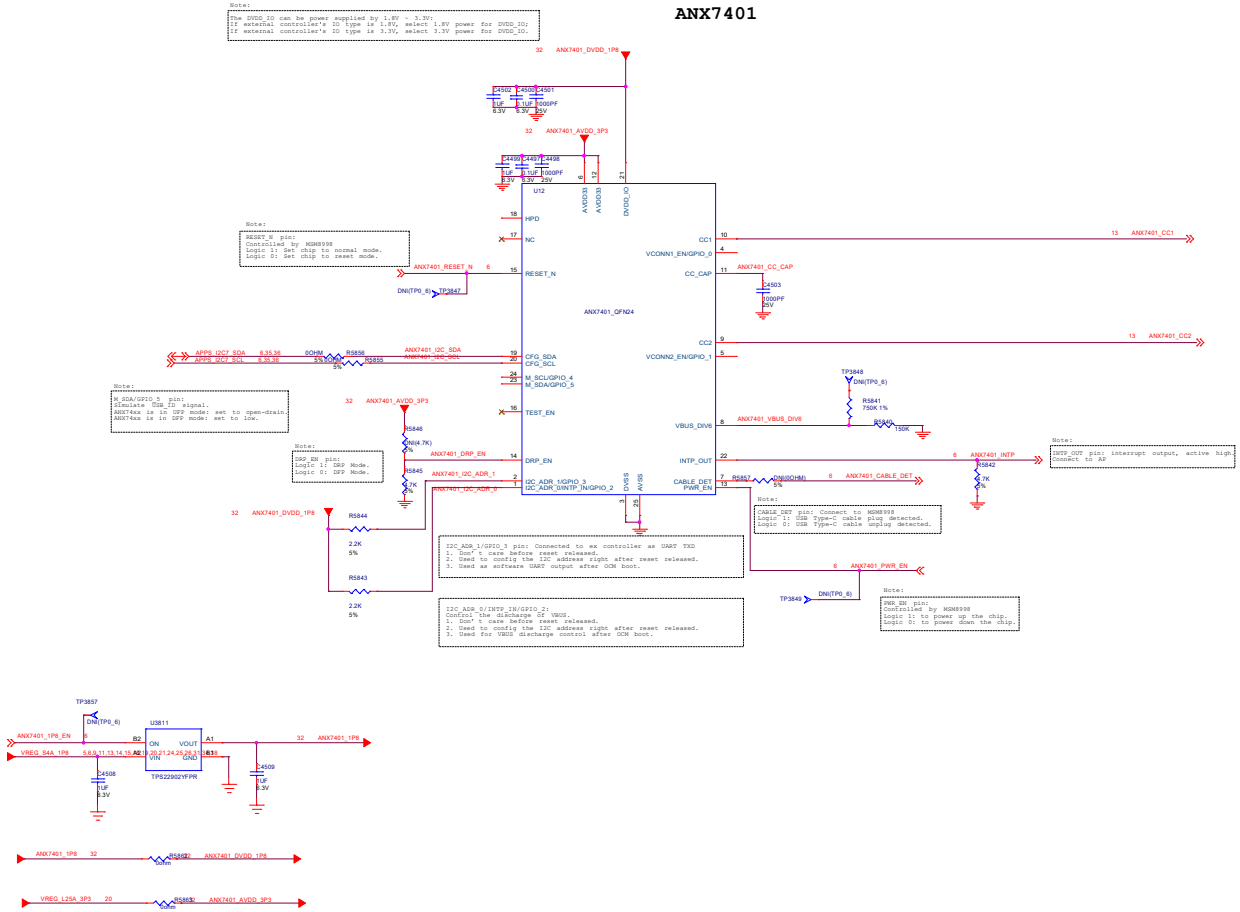
ALS Write I2C Address: 0x72, Read I2C Address: 0x73

Need to add another Smart Dmic on ALS_FPC

PCIE to USB Bridge Conn

flex

Title	<Title>		
Size: D	Document Number: <Doc>		Rev: <RevCode>
Date: Wednesday, January 24, 2018	Sheet 31 of 42		



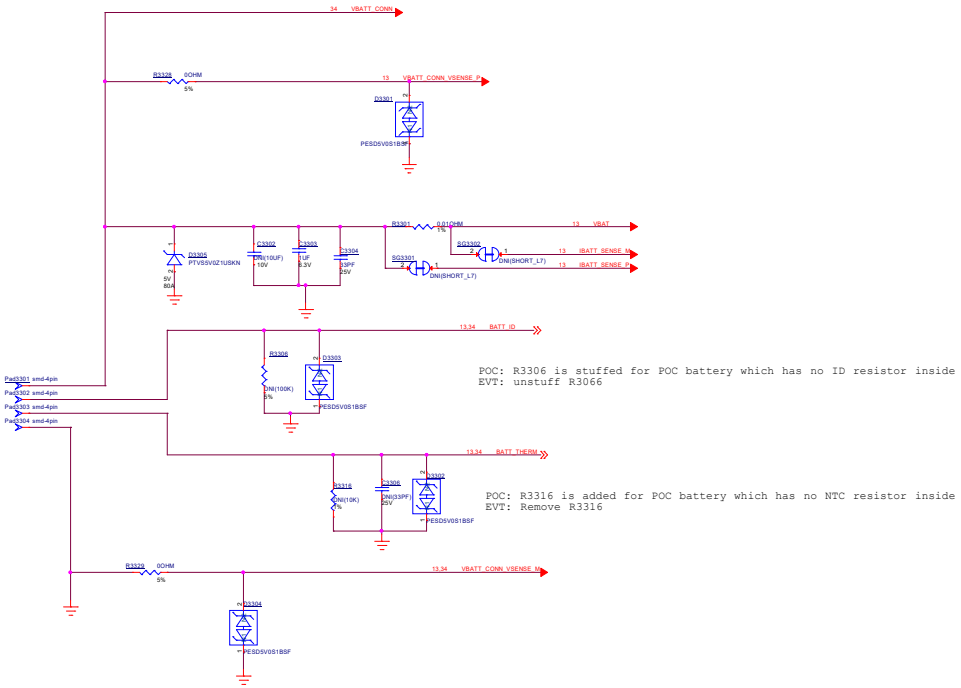
ANX7401

flex

Title	<Title>		
Size: D	Document Number: <Doc>		Rev: <RevCode>
Date: Wednesday, January 24, 2018	Sheet 32 of 42		

Sub Battery CONN

The battery connector pin definition is not finalized



POC: R3306 is stuffed for POC battery which has no ID resistor inside
EVT: unstuff R3066

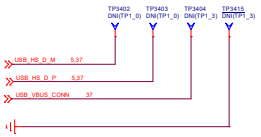
POC: R3316 is added for POC battery which has no NTC resistor inside
EVT: Remove R3316

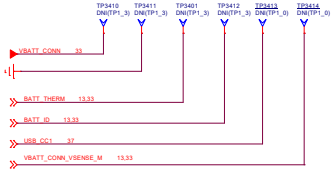
Sub Battery CONN

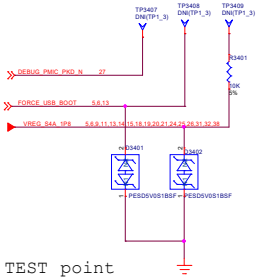
flex

Title	<Title>	
Size D	Document Number <Doc>	Rev <RevCode>
Date: Wednesday, January 24, 2018	Sheet 33 of 42	

Test Point

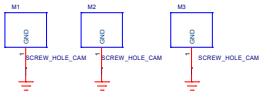






PCBA AUTOMATIC TEST point

Screw hole



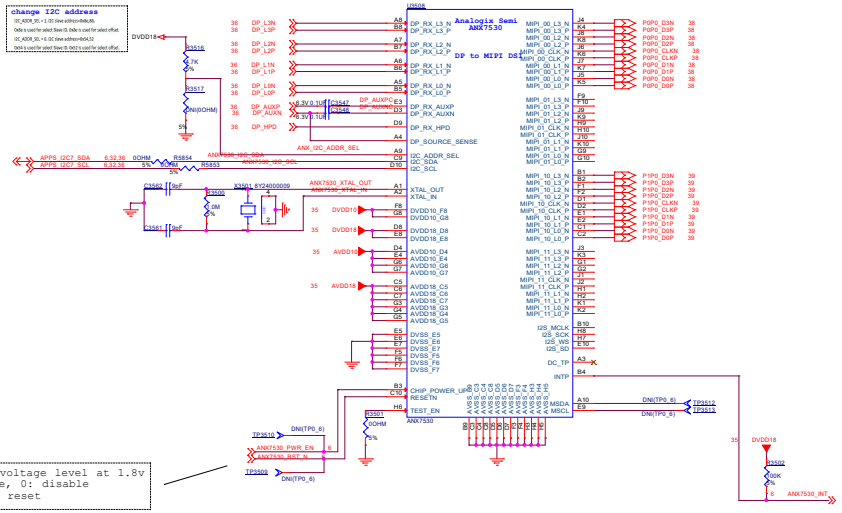
UART TP

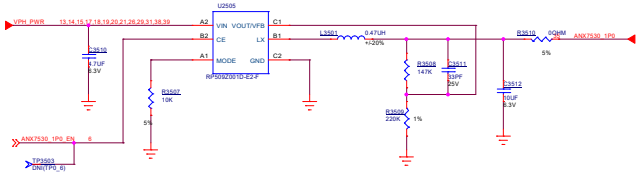
Test point/GND/Shields

flex

Title	<Title>	
Size: D	Document Number: <Doc>	Rev: <RevCode>
Date: Wednesday, January 24, 2018	Sheet 34 of 42	

ANX7530





Note

From MSM8998, input voltage level at 1.8v
Pwr_Enable: 1: enable, 0: disable
Rst_N: 1: Normal, 0: reset

CAD Note

Decouping capacitors close to ANX7530 PIN

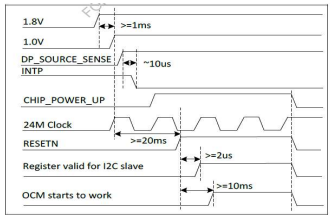
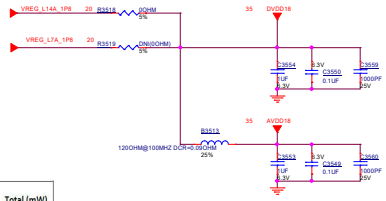


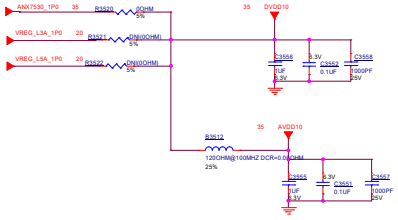
Table 6-6 Power Consumption in Active Mode

Input Video Clock	Current (mA)				Total (mW)
	AVDD10	AVDD18	DVDD18	DVDD10	
390MHz	178.00	77.00	1.00	88.00	406.40
524MHz	175.00	78.00	1.00	94.00	411.20
619MHz	175.00	78.00	1.00	101.00	418.20



CAD Note

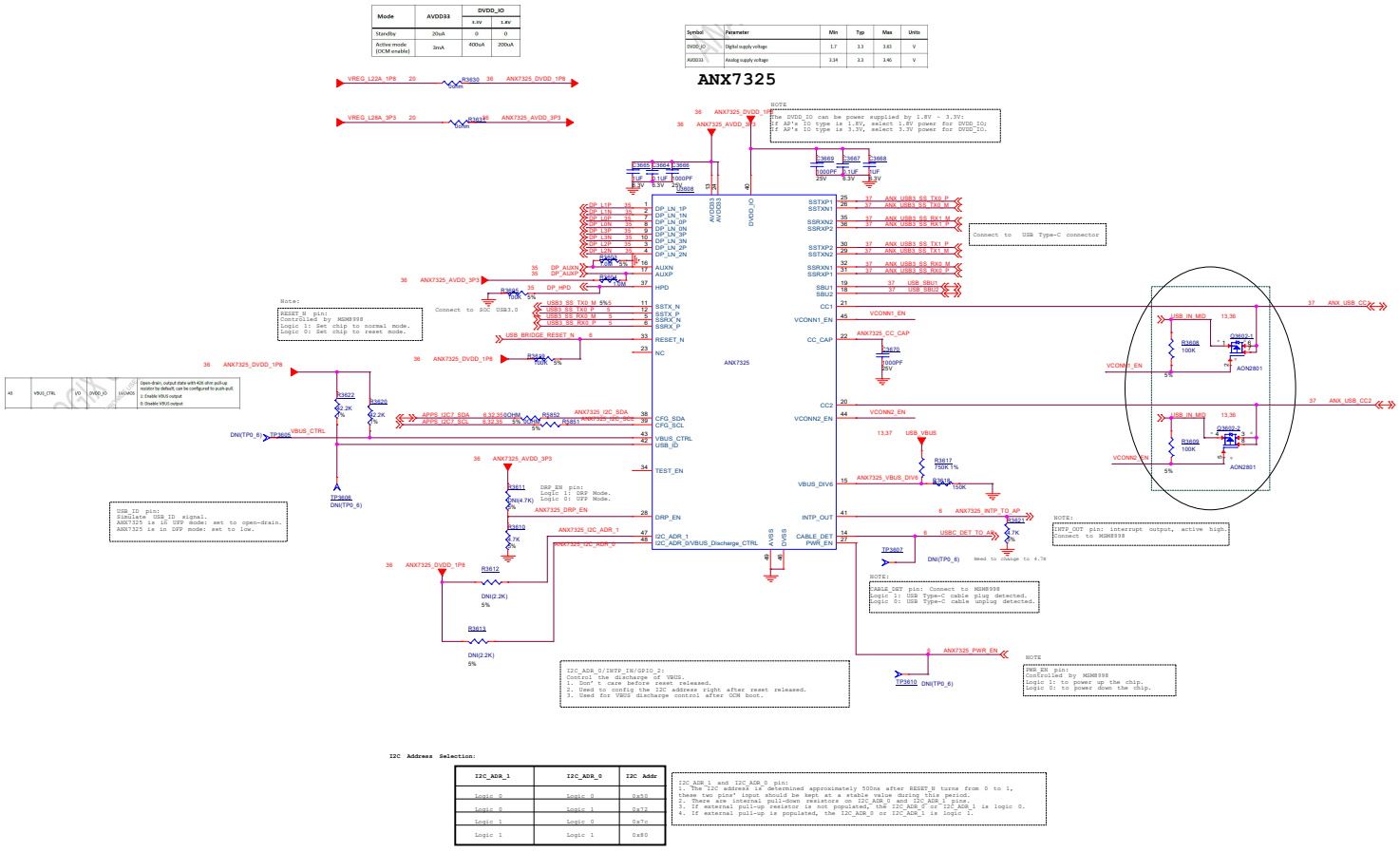
DVDD10 &AVDD10 276mA



DP to MIPI Bridge ANX7530

flex

Title	<Title>	
Size: D	Document Number: <Doc>	Rev: <RevCode>
Date: Wednesday, January 24, 2018	Sheet 35 of 42	

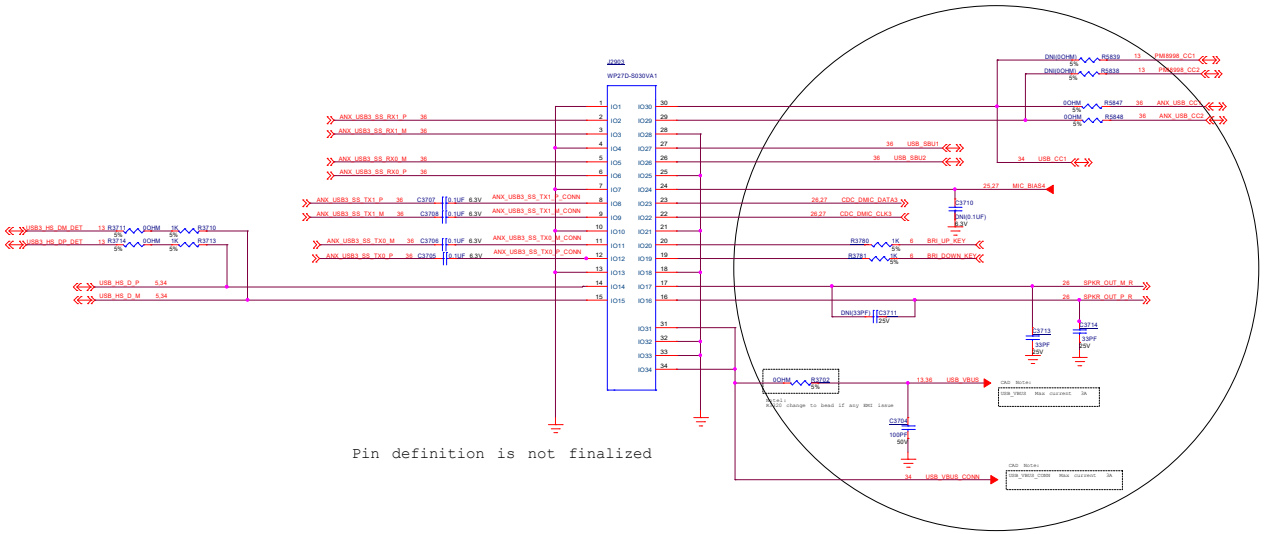


USB TYPEC BRIDGE ANX7325

Title	<Title>		
Size: D	Document Number: <Doc>		Rev: <RevCode>
Date: Wednesday, January 24, 2018	Sheet 36 of 42		

CAD Note:
Ensure R3710 and R3713 isolation resistor placed close to the Sub board connector.

Note:
To reduce the capacitive loading of DP/DM lines if required
change R3711 and R3714 to ferrite beads



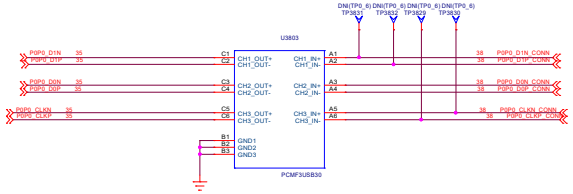
Pin definition is not finalized

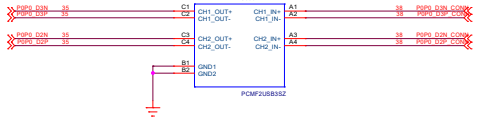
USB typeC board connector

flex

Title	<Title>		
Size: D	Document Number: <Doc>		Rev: <RevCode>
Date: Wednesday, January 24, 2018	Sheet 37 of 42		

CAD Note:
Place Test points on the trace, No stub





CAD Note:
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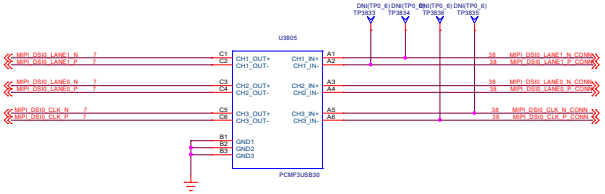
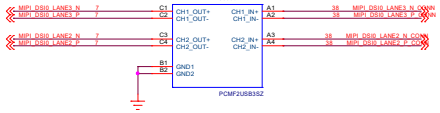
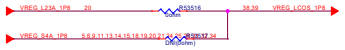
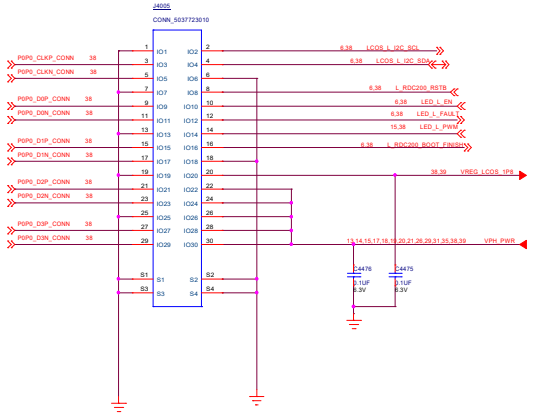
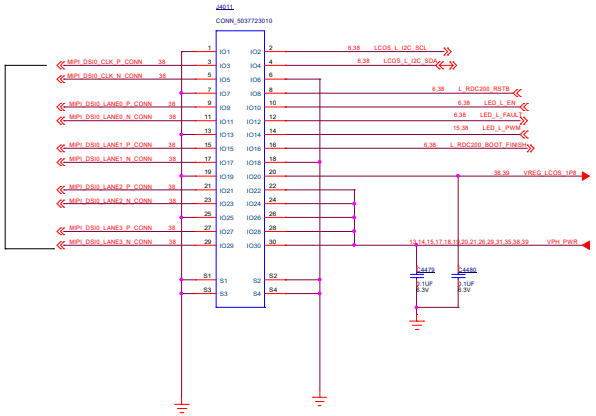








MIPI from HMD SD835

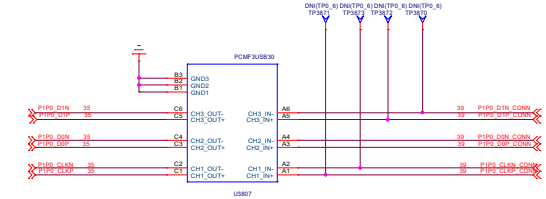


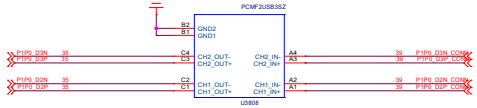
Left DLP board connector

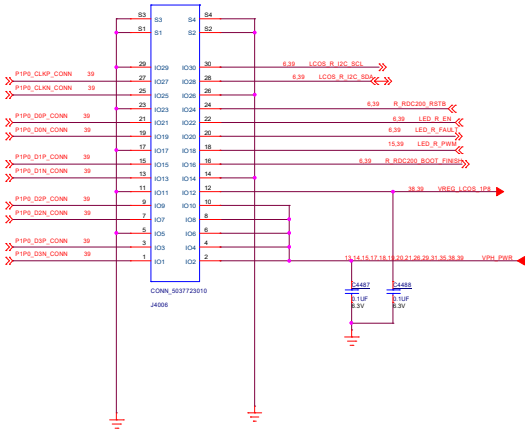
flex

Title	<Title>		
Size: D	Document Number: <Doc>		Rev: <RevCode>
Date: Wednesday, January 24, 2018	Sheet 38 of 42		

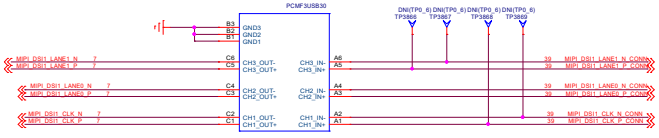
CAD Note:
Place Test points on the trace, No stub

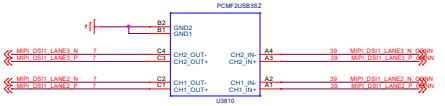


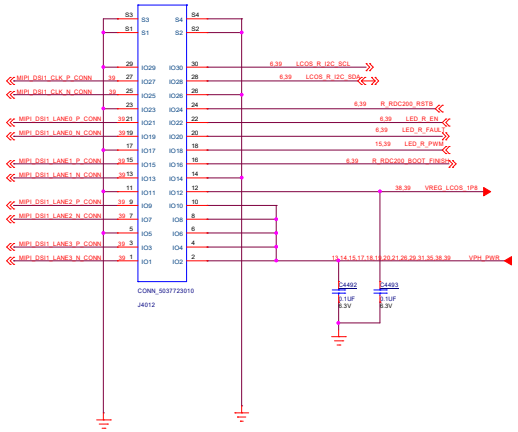




CAD Note:
Place Test points on the trace, No stub

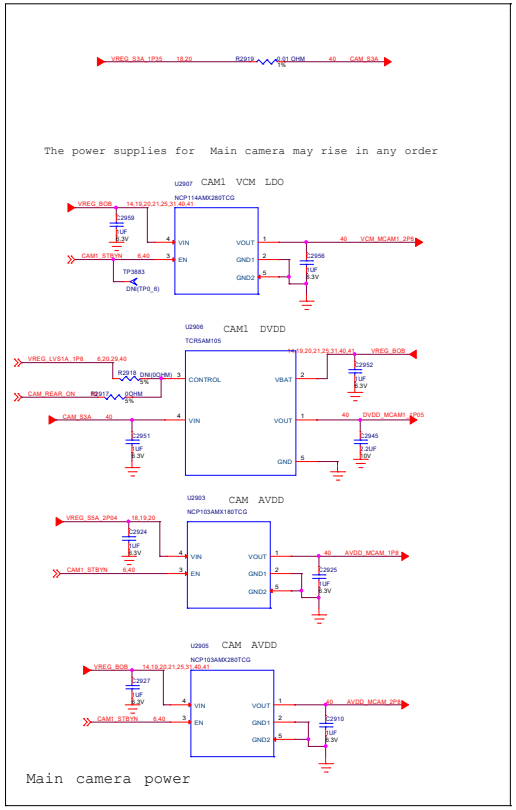




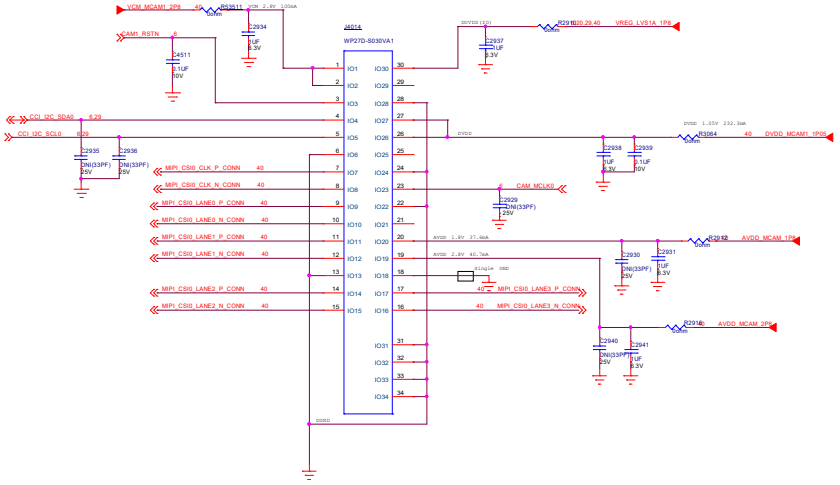


RIGHT DLP board connector

Title	<Title>		
Size D	Document Number <Doc>		Rev <RevCode>
Date: Wednesday, January 24, 2018	Sheet 39 of 42		

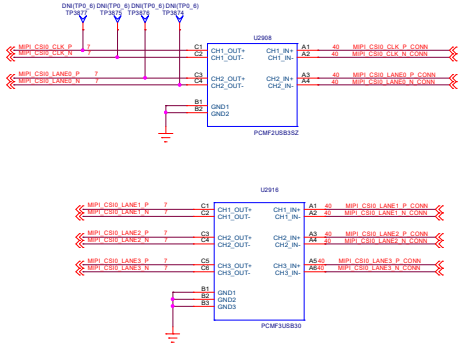


Main Camera



Sensor I2C addr:0X20(W),0X21(R)

Place Test points on the trace, No stub



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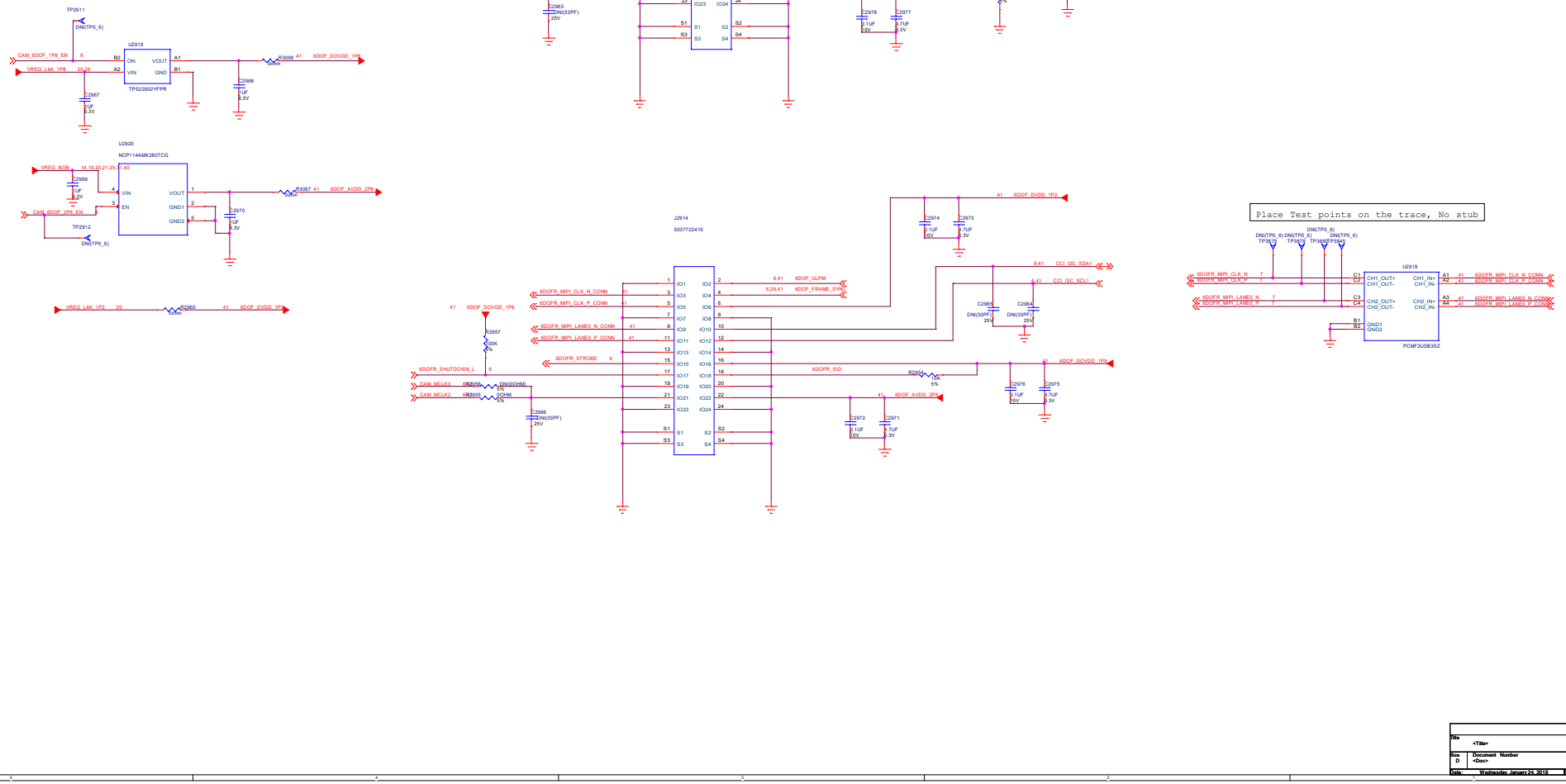
Date: Wednesday, January 24, 2018	Sheet 40 of 42		



Title	<Title>		
Size: D	Document Number: <Doc>		Rev: <RevCode>
Date: Wednesday, January 24, 2018	Sheet 41 of 42		

Change list

EVT1 change list

[10/16] Page13: Change R5858 from10K to 56K

[10/16] Page36: Fix the library issue on Q3602

[10/16] Page30: Add resistors R3091~R3094 for debug

[10/16] Page38/Page39: Change these two pages for new LCOS display

[10/16] Page6: Change the net name of GPIO31/32/58/59/131/132/133/134 for new LCOS display

[10/16] Page6: Change the net name of I2C bus for new LCOS display

[10/17] Page20: Change the voltage of LDO23 from 3.3V to 1.8V for LCOS display

[10/19] Page29/Page40/Page41: Change these three pages

[10/19] Page28: Change the pull-up power of Smart MIC I2C from VREG_S4A_1P8 to VREG_L6A_1P8

[10/19] Page31: Move ALS/DMIC/Smart mic to FPC

[10/19] Page6: Use GPIO125/126 as Brihtness_up/down button

[10/19] Page6: Use GPIO122 as the backup of MAG_SSC_DRDY

[10/20] Page15: Change the netname of GPIO2/5 of PMI8998

[10/24] Page9/Page11/Page17/Page18/Page20/Page21: Remove SG0901/SG0911/SG1101/SG1102/SG1713/SG1714/SG1715/SG1716/SG1813/SG1814/SG2011/SG2012/SG2113/SG2114

[10/24] Page34: Remove J3403

[10/24] Page29: Change Resistor R2932 from 374K to 210K; Change R2933 from 150K to 47K

[10/24] Page29: Change netname from VREG_VCEL_2P1 to VREG_VCEL_3P3

[11/1] Page14: Remove the connector J1401;Add two test points TP1401,TP1402

[11/1] Page33: Change battery connector

[11/1] Page37: Add brightness control GPIO on J2903, add Resistor R3780,R3781

[11/1] Page27: Move Power on key from USB rigid flex to Audio board

[11/9] Page27: Add net"MIC_PDM_DATAI1/CLKO1"for another smart DMIC

[12/6] Page33: DNI R3306, R3316

[12/6] Page13: ADD Diode D3403 on CC1 pull up

[01/02] Page29: DEL C4469; Add voice wake second MIC; change CONN pin define

[01/02] Page31: J4016 change to 24pin: 5037722410; remove voice wake second MIC; add flash LED

[01/02] Page40: DEL U3201: Flash LED

[01/02] Page33: change battery conn footprint to SD5040500691

[01/15] Page29: change Depth 1V5 from VREG_L15 to DCDC: R2937 to 330K, R2938 to 220K; change J2904 Pin define

[01/15] Page33: Remove J3302, add solder pad

[01/18] Page39: Change pin define of LCOS-R

[01/19] Page31: Change pin define of ALS conn、

[01/19] Page39: Change pin define of J4012

[01/24] Page39: Vertical mirror U3810, U3809

[01/24] Page1-4: Change content, block diagram and GPIO map

Revision History

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Title: <Title>		
Size: D	Document Number: <Doc>	Rev: <RevCode>
Date: Wednesday, January 24, 2018	Sheet 42 of 42	