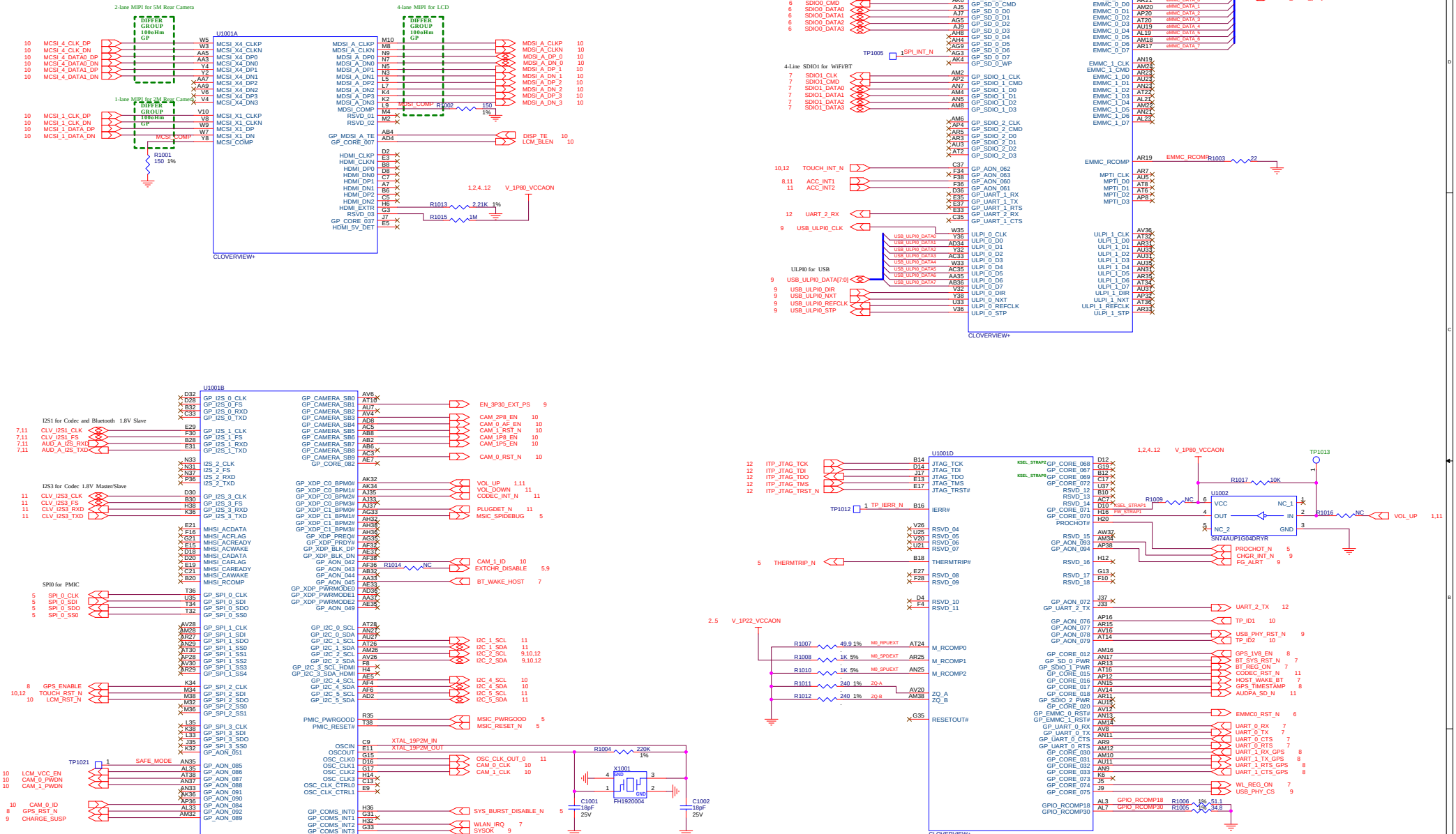
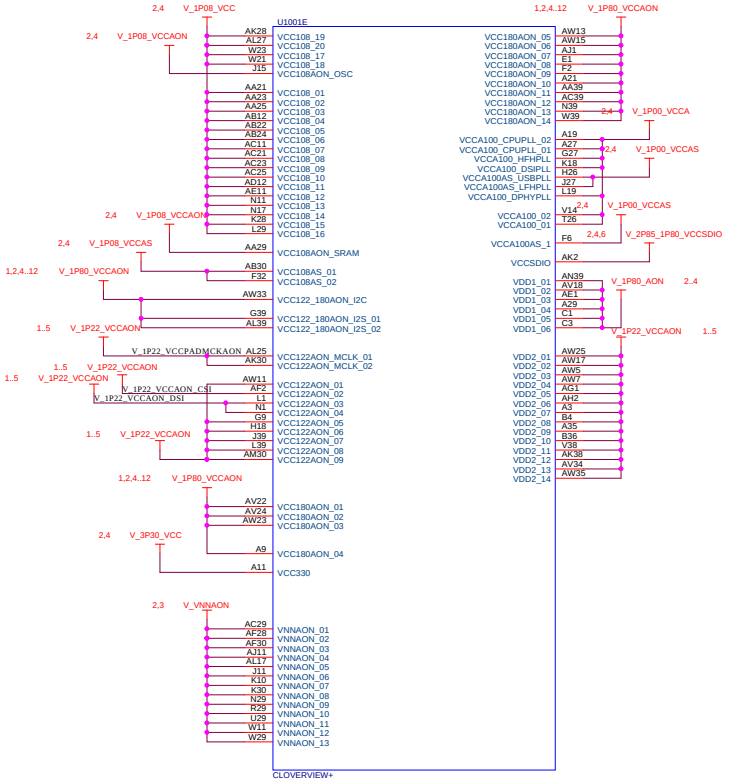
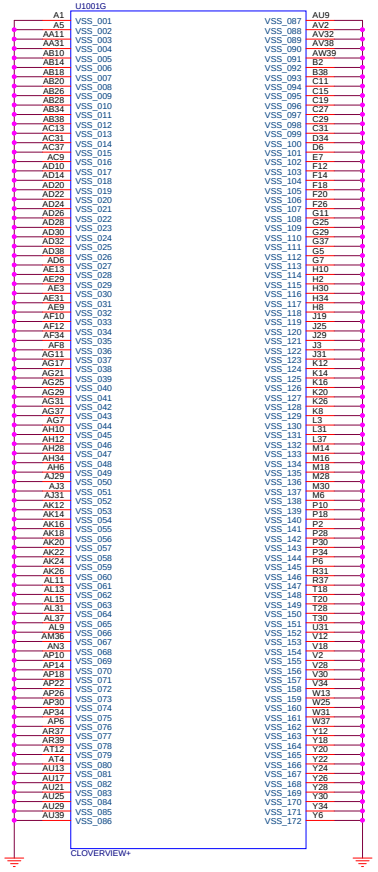
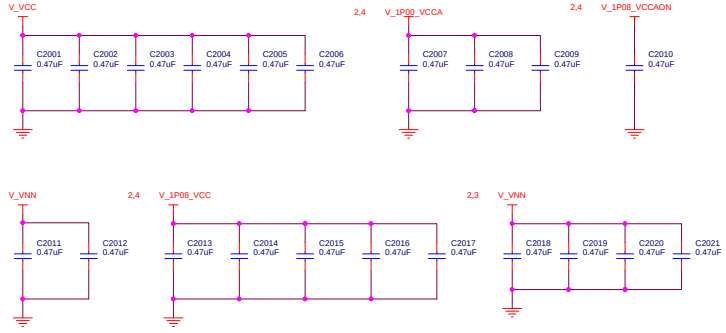
CLOVERVIEW+


2-lane MIPI for 5M Rear Camera
4-lane MIPI for LCD
1-lane MIPI for 2M Rear Camera
U1001A
CLOVERVIEW+
4-Line SDIO0 for Miro SD
4-Line SDIO1 for WiFi/BT
U1001C
TP1005
TOUCH_INT_N
ACC_INT1
ACC_INT2
UART_2_RX
USB_ULPI0_CLK
ULPI0 for USB
U1001B
I2S1 for Codec and Bluetooth 1.8V Slave
I2S3 for Codec 1.8V Master/Slave
SPI0 for PMIC
TP1021
SAFE_MODE
U1001D
TP1012
THERMTRIP_N
RESETOUT#
U1002
SN74AUP1G04DRYR
TP1013
VOL_UP
Design Note:
1. U1001 is CLV+ and 1GB LP-DDR2 POP (Add in BOM)
2. 1GB LP-DDR2, 220Ball POP, 1V8/1V2, 2Channel, x32
EDB8164B3PD-1D-F-ELPIDA
K3PE7E700D-XGC2 SAMSUNG
H9TKNNN8KDMRAR-NGM HYNIX
U1001
POP TYPE
CLV+ LPDDR2
DUCATI_MB_V4P0
01 AP_CIV+1_MAIN_IO
Size A2
Document Number
Rev V1.0
Date: Monday, March 24, 2014
Sheet 1 of 12

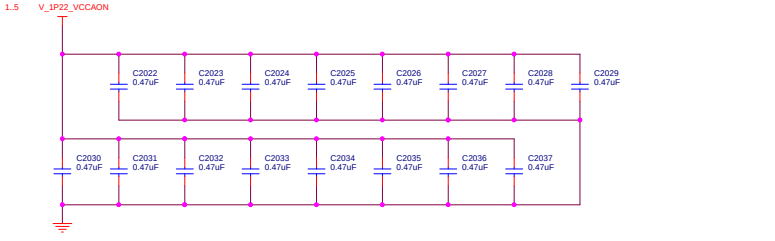
CLOVERVIEW+

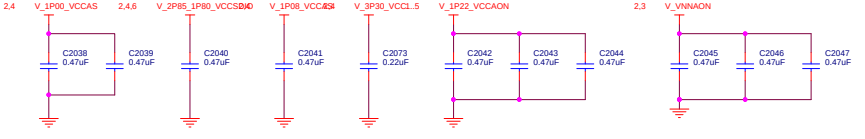


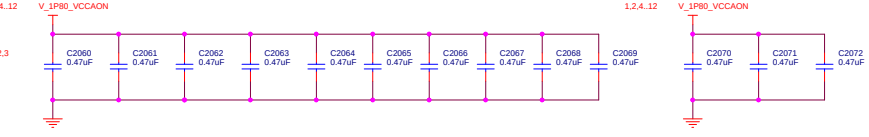




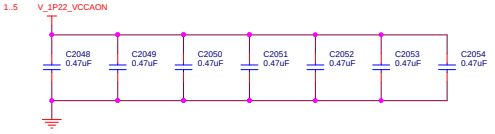
CAD Note: Place caps near package edge.

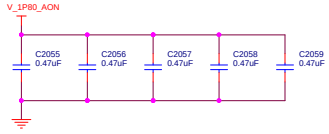


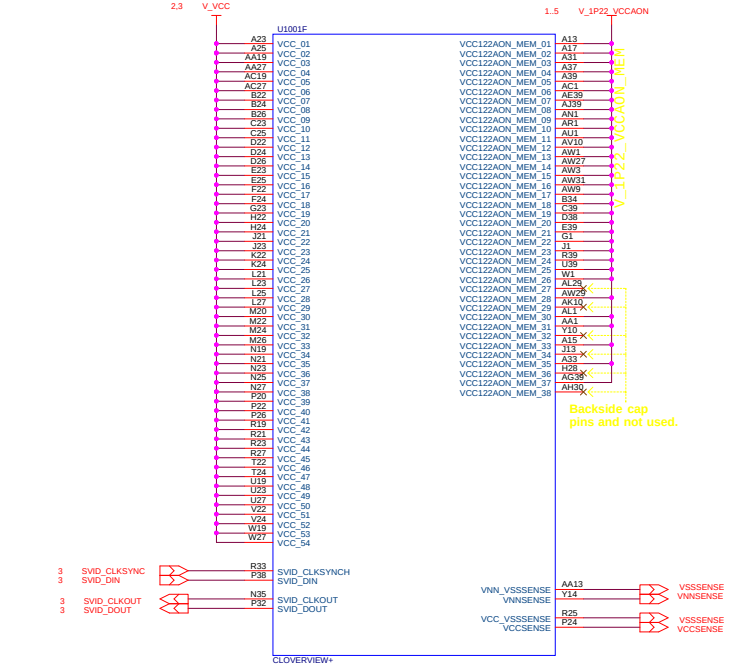


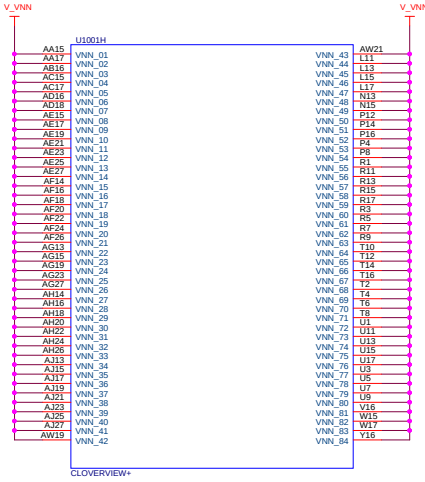


LPDDR2 Decoupling CAPS









ECAD NOTE:

Use dedicated branch on the following power feeds:

- V_1P22_VCCAON_CSI
- V_1P22_VCCAON_DSI
- V_1P22_VCCPADMCKAON
- V_1P22_VCCAON_MEM

DUCATI_MB_V4P0		
Title: 02 AP_CLV_PWR_GND		
Size: A2	Document Number	Rev: V1.0
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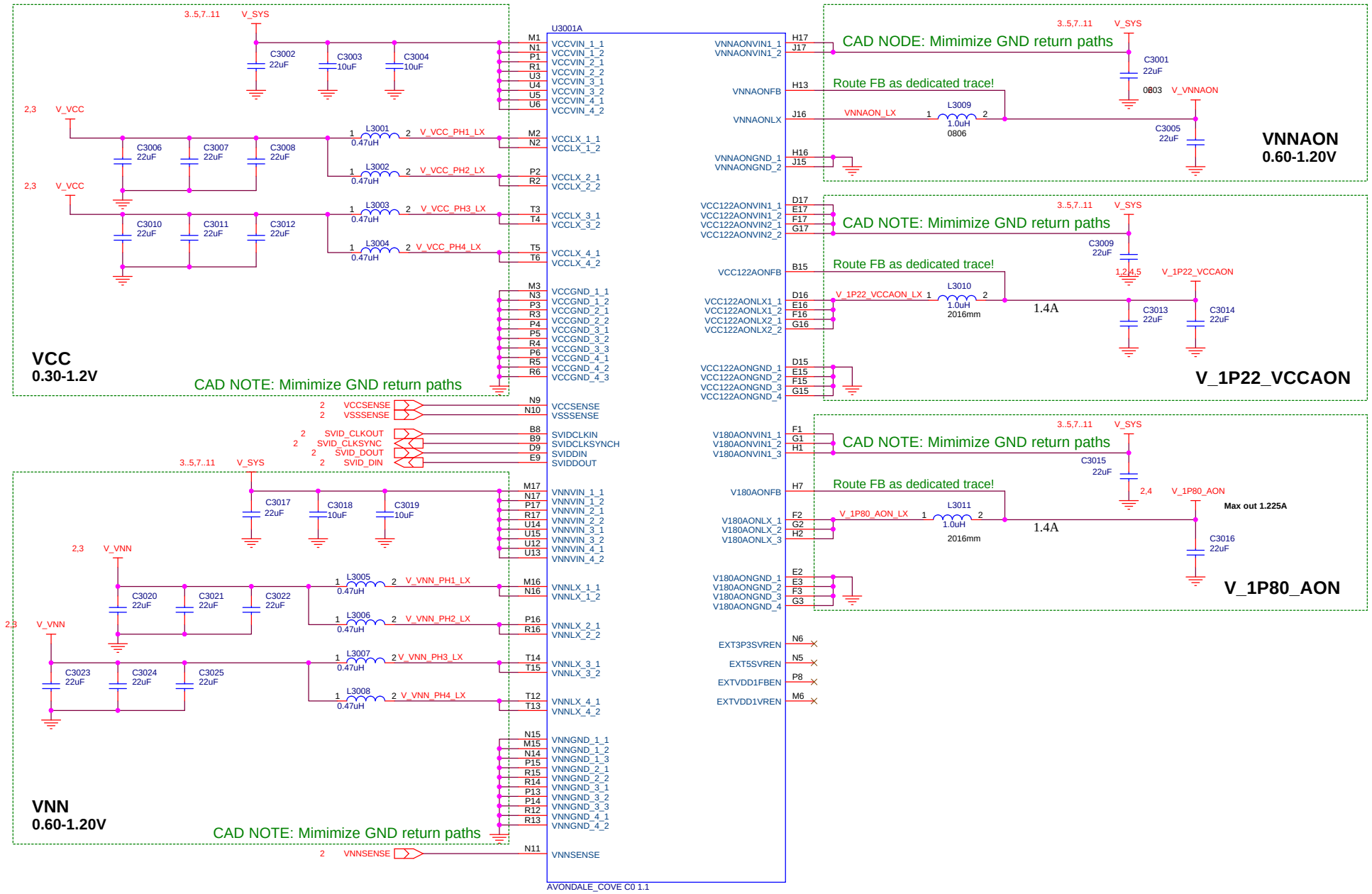
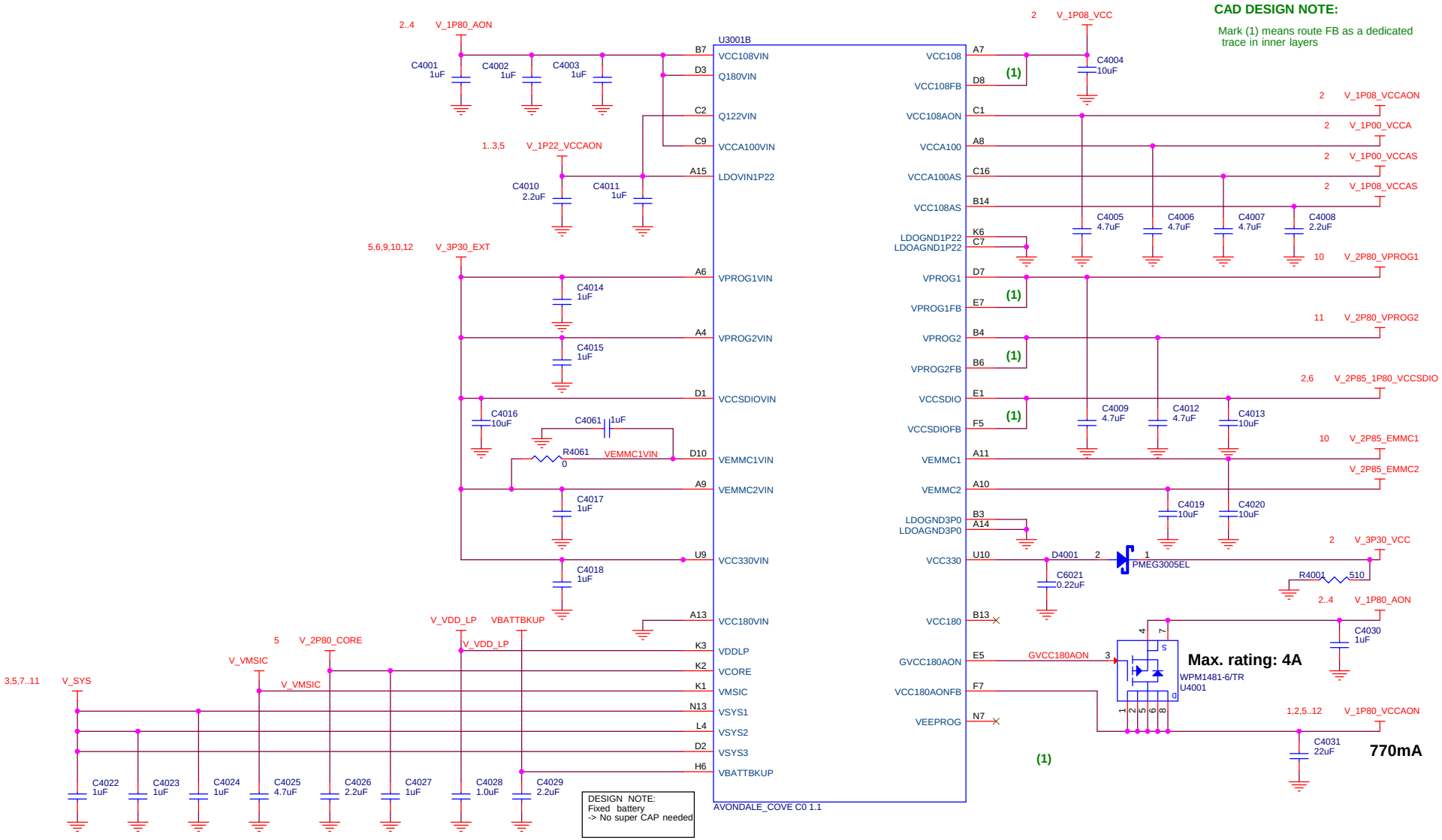
AVONDALE_COVE



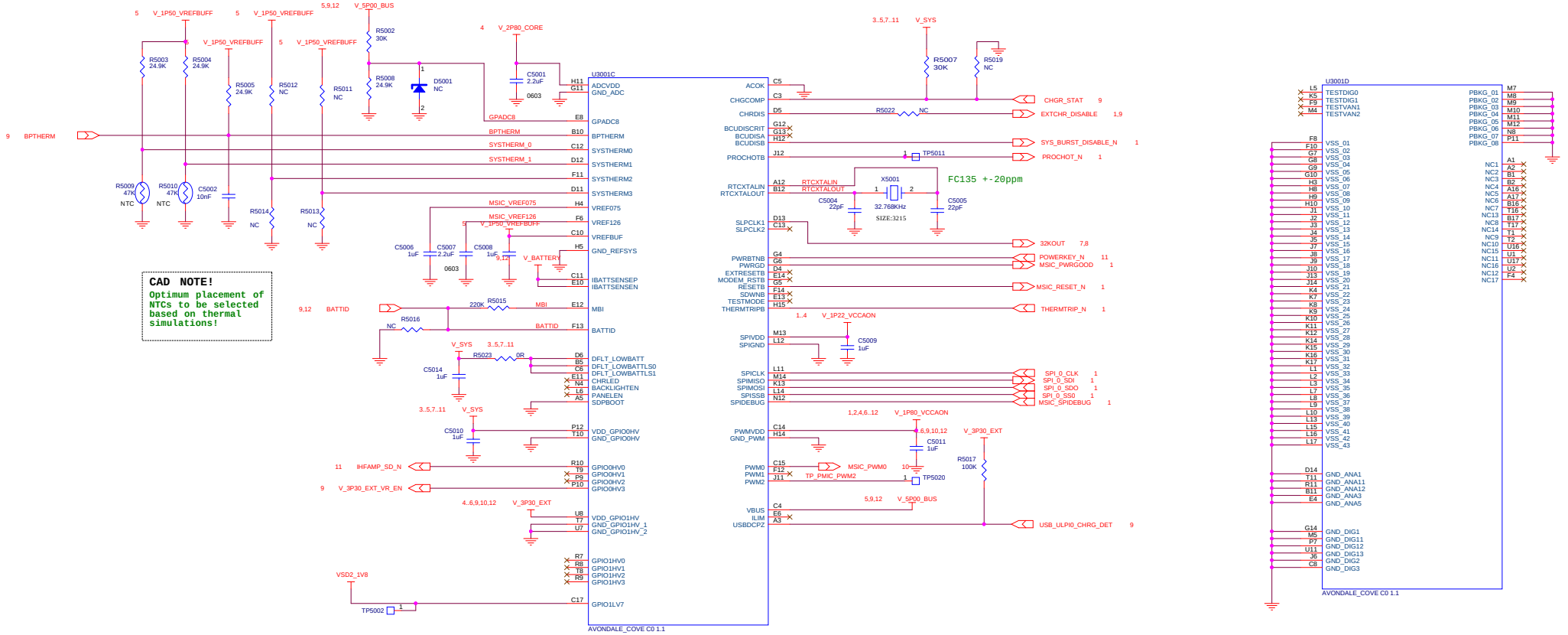
DUCATI_MB_V4P0	
Title	03 PMIC_ Avondale Cove_1
Size A3	Document Number
Rev V1.0	
Date: Monday, March 24, 2014	Sheet 3 of 12

AVONDALE_COVE



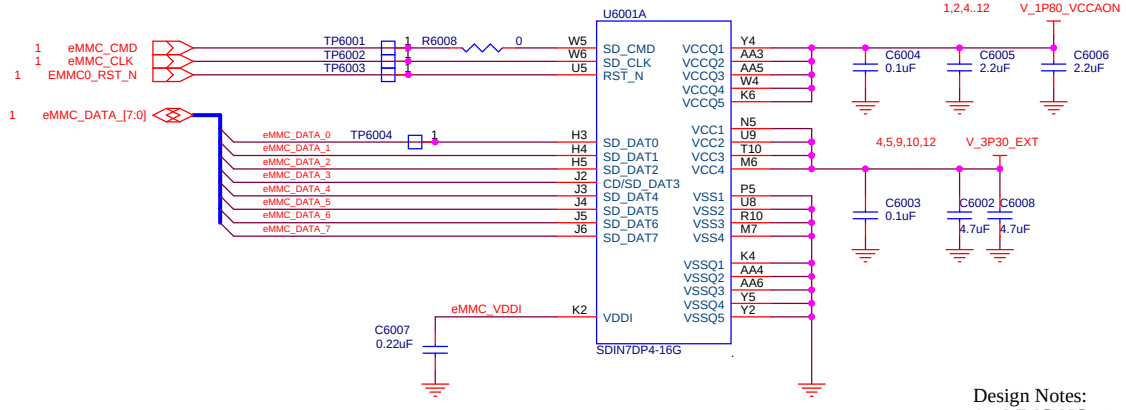
Title	04 PMIC_ Avondale Cove_2
Size	A3
Document Number	DUCATI_MB_V4P0
Rev	V1.0
Date:	Monday, March 24, 2014
Sheet	4 of 12

AVONDALE_COVE



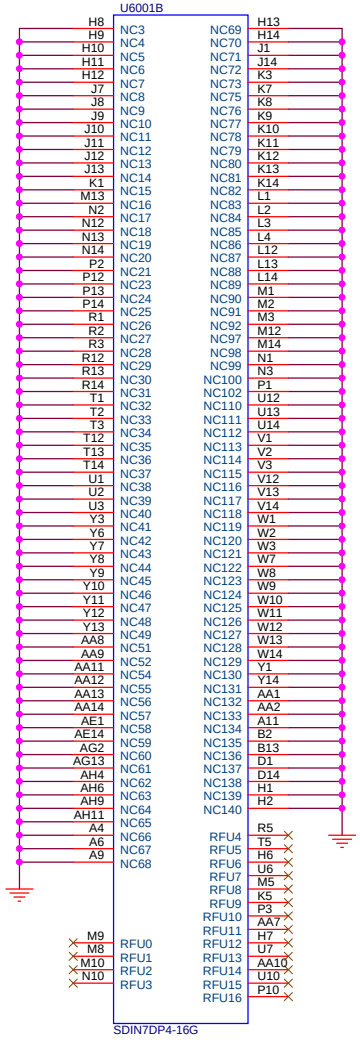
DUCATI_MB_V4P0			
Title: 05 PMIC_ Avondale Cove_3			
Size: A2	Document Number		Rev: V1.0
Date: Monday, March 24, 2014	Sheet 5 of 12		

eMMC - 8/16GB

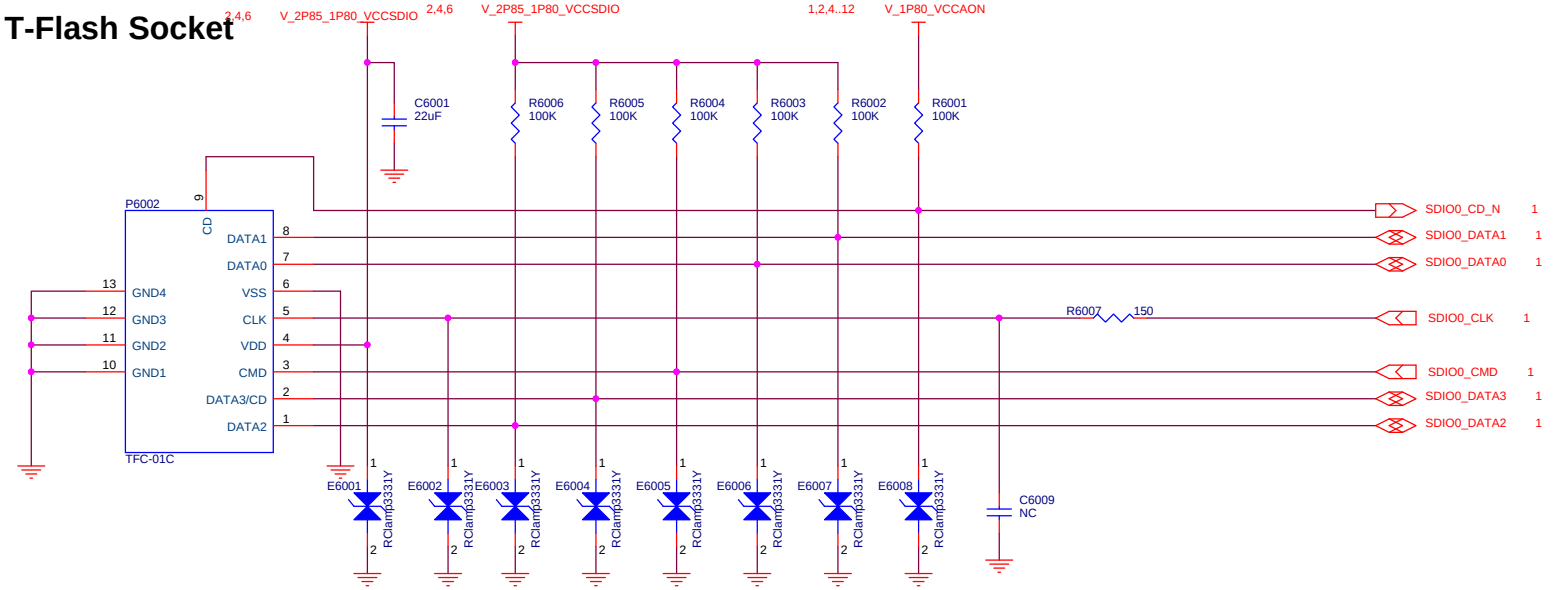


Design Notes:

1. eMMC NC pins should be connected to GND.
   RFU pins should be left unconnected.
2. Compatible JEDEC packages:
   12mm x 16mm (169 balls) as default on PCB
   12mmx18mm (169 balls)
   11.5x13mm (153 balls)
3. 16GB Toshiba THGBM5G7A2JBAIR
   16GB Sandisc SDIN7DP4-16G
   16GB Samsung KLMAG2GE4A-A001
4. 8GB SanDisc SDIN7DU2-8G

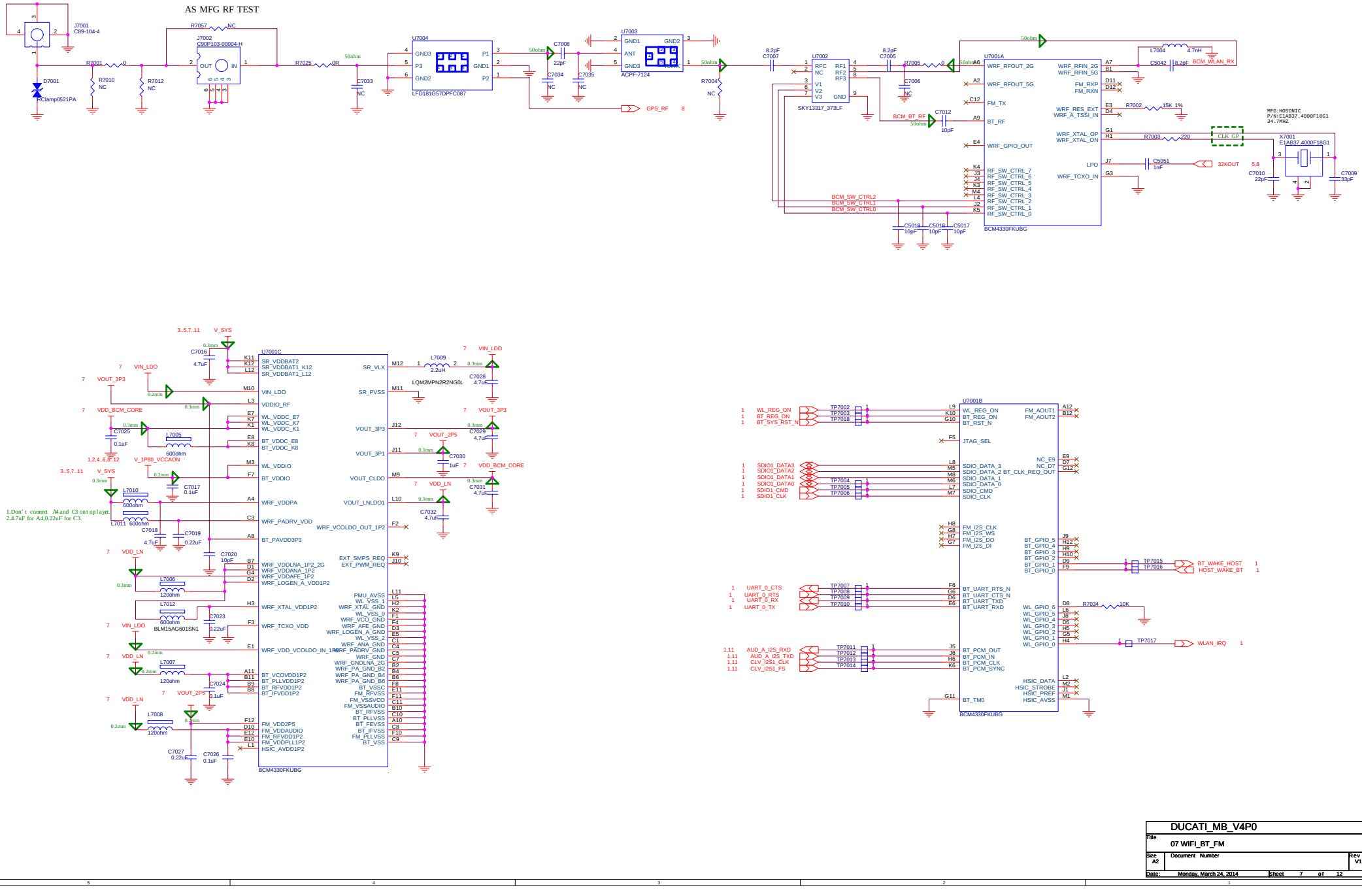


T-Flash Socket



DUCATI_MB_V4P0			
Title: 06 eMMC_T-FLASH			
Size: A3	Document Number		Rev: V1.0
Date: Monday, March 24, 2014		Sheet 6 of 12	

WIFI BT



DUCATI_MB_V4P0			
Title: 07 WIFI_BT_FM			
Size: A2	Document Number		Rev: V1.0
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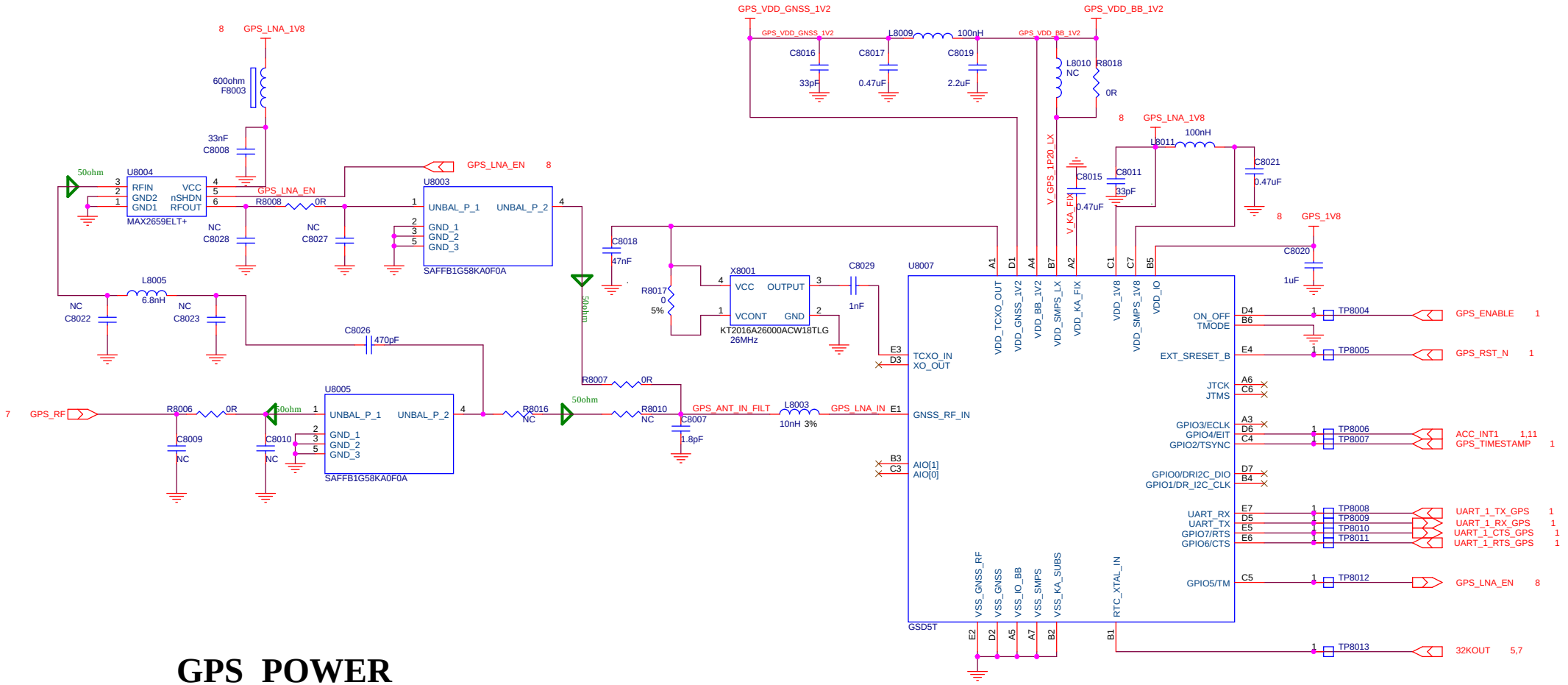
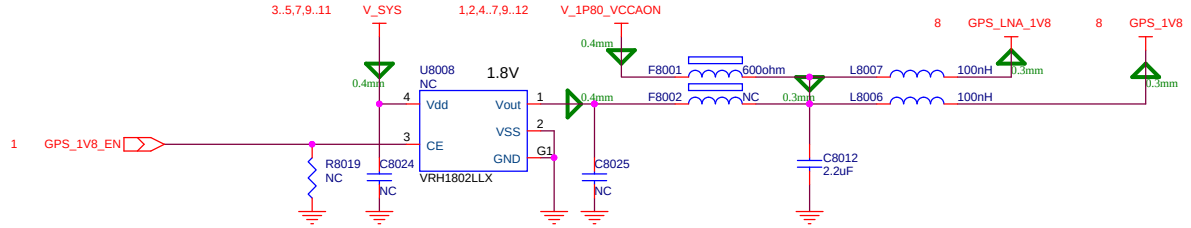
GPS GSD5T

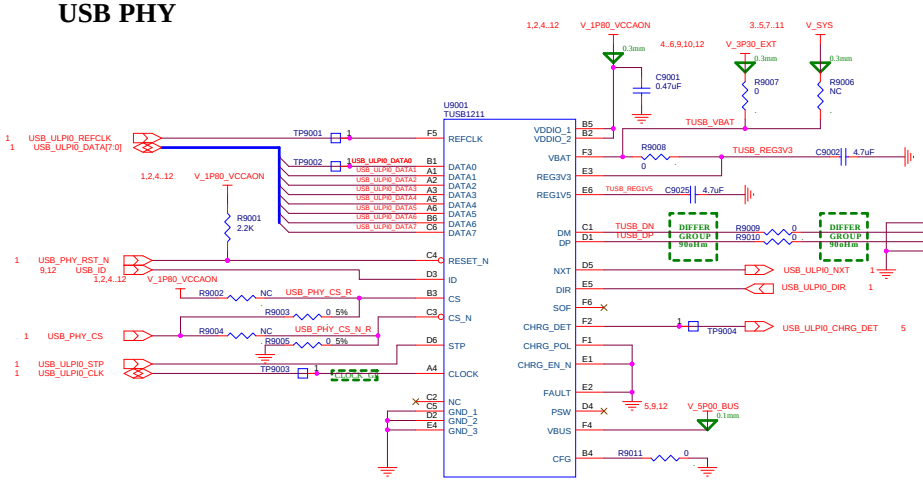


GPS POWER

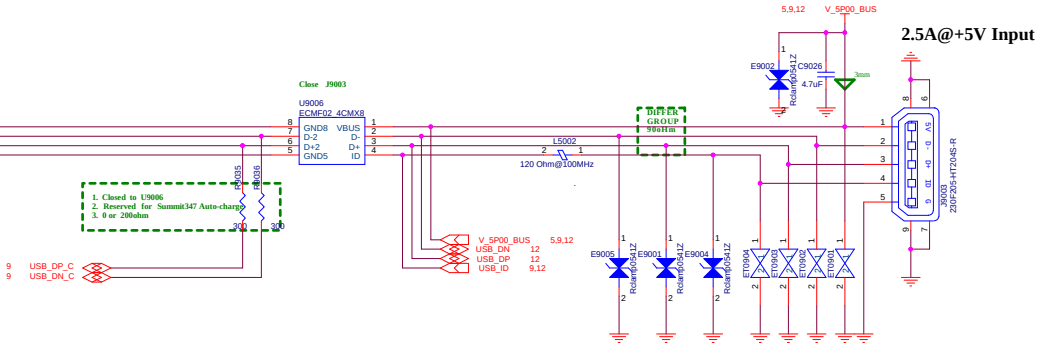


DUCATI_MB_V4P0		
Title: 08 CWS_GPS		
Size: A3	Document Number	Rev: V1.0
Date: Monday, March 24, 2014	Sheet 8 of 12	

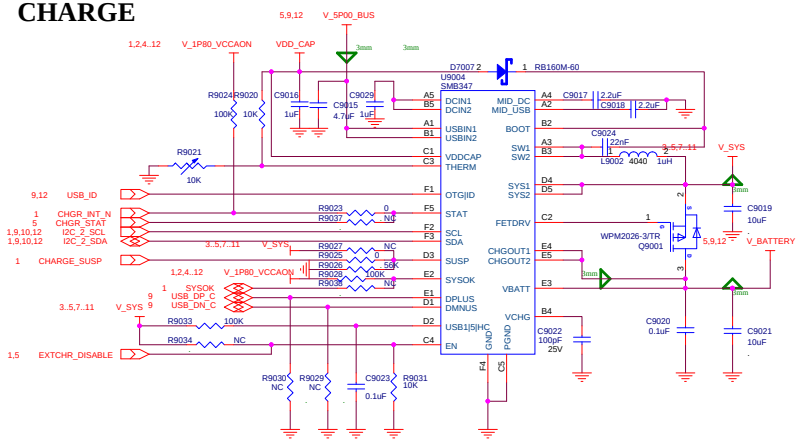
USB PHY



5PIN MICRO USB

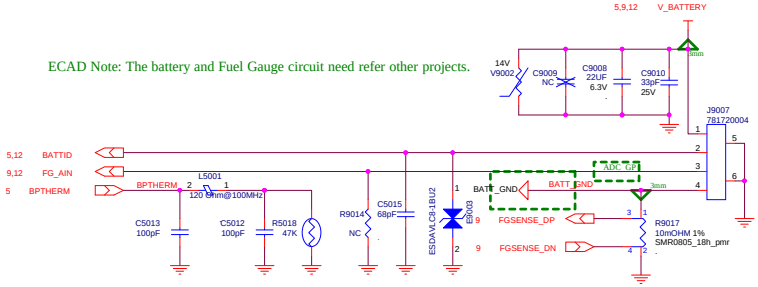


CHARGE

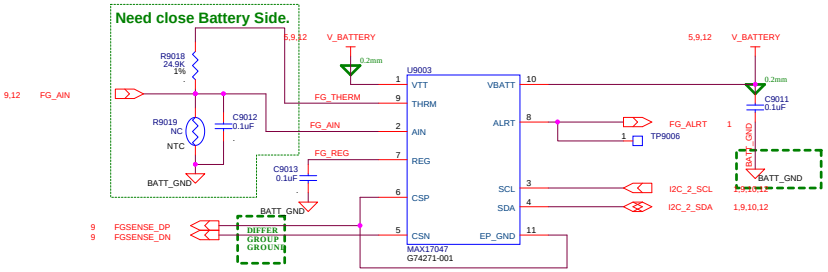


BATTERY CON

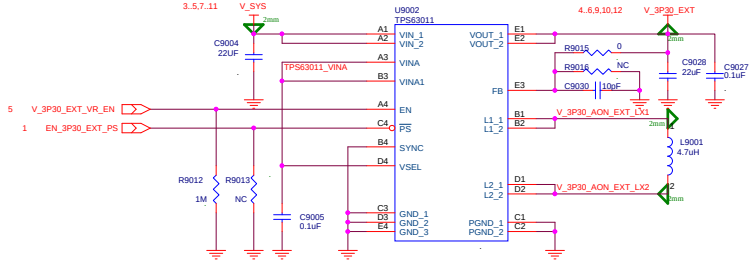
ECAD Note: The battery and Fuel Gauge circuit need refer other projects.



FUEL GUAGE



DCDC 3.3V



DUCATI_MB_V4P0	
Title	09 POWER_USB_CHARGE_FG
Size A2	Document Number
Rev	V1.0
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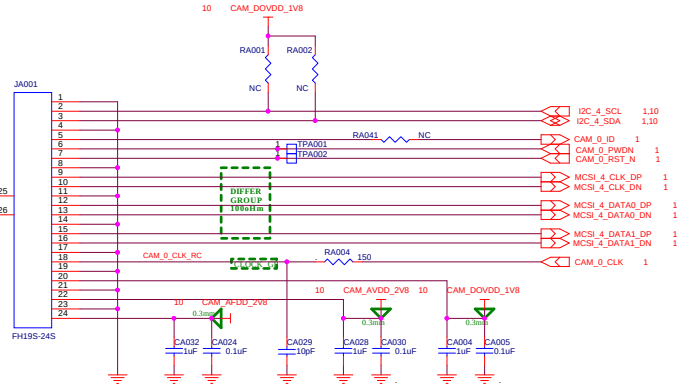
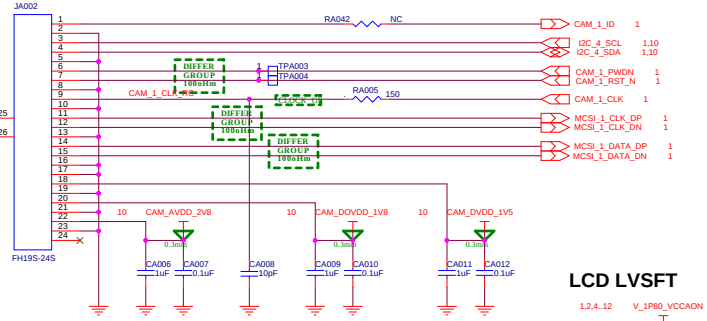
REAR 2M CAMERA

1	DGND
2	I2C_SCL
3	I2C_SDA
4	DGND
5	STROBE
6	PWDN
7	RESET_N
8	DGND
9	MCSI_CLK_P
10	MCSI_CLK_N
11	DGND
12	MCSI_DATA0_P
13	MCSI_DATA0_N
14	DGND
15	MCSI_DATA1_P
16	MCSI_DATA1_N
17	DGND
18	MCLK
19	DGND
20	DOVDD1.8V
21	DGND
22	AVDD2.8V
23	AGND
24	AFDD

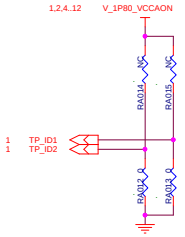


FRONT VGA CAMERA

1	NC
2	DGND
3	I2C_SCL
4	I2C_SDA
5	DGND
6	PWDN
7	RESET_N
8	DGND
9	MCLK
10	DGND
11	MCSI_CLK_P
12	MCSI_CLK_N
13	DGND
14	MCSI_DATA0_P
15	MCSI_DATA0_N
16	DGND
17	DGND
18	DVDD1.5V
19	DGND
20	DOVDD1.8V
21	DGND
22	AVDD2.8V
23	AGND
24	NC



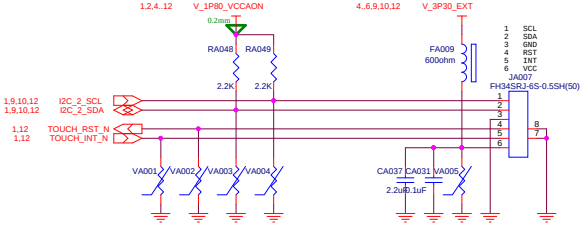
TOUCH PANNEL ID



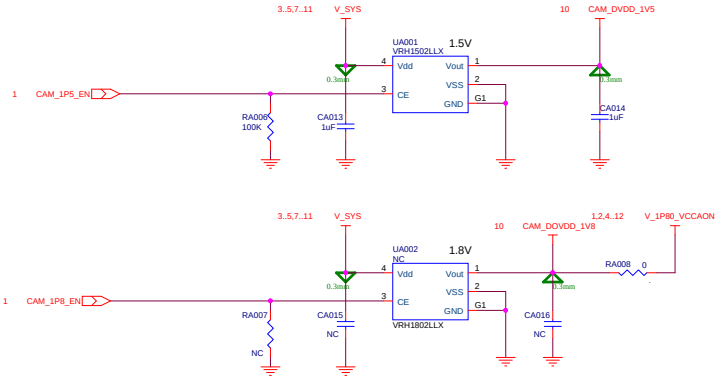
TOUCH PANNEL ID CONFIG

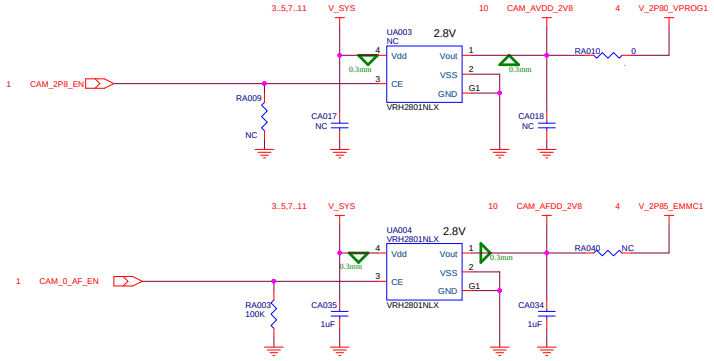
TP_ID1 (GPI O?)	TP_ID2 (GPI O?)	TP TYPE
0	0	FT5406
1	0	GT928
0	1	Reserved
1	1	Reserved

TOUCH PANNEL

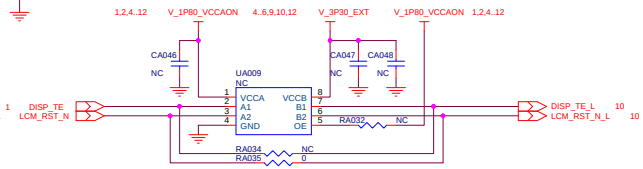


CAMERA POWER

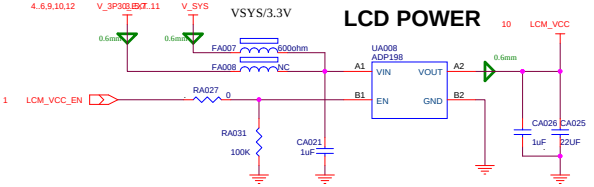




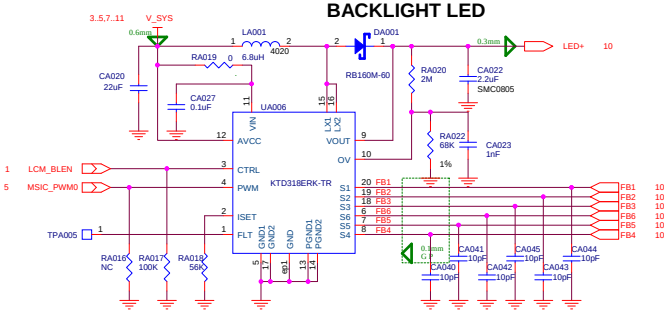
LCD LVSFT



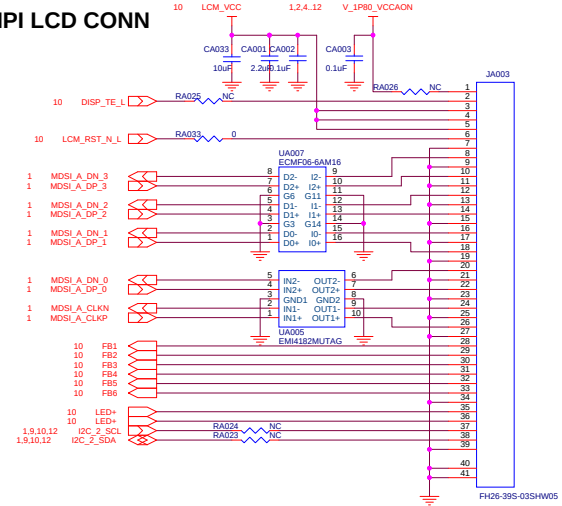
LCD POWER



BACKLIGHT LED

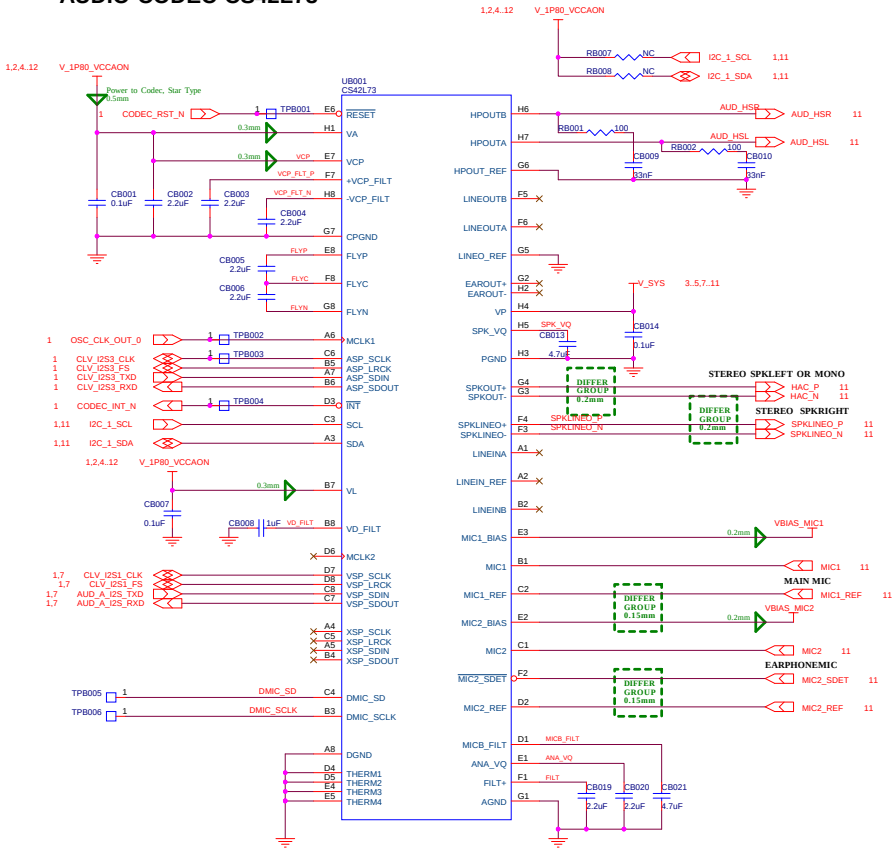


MIPI LCD CONN

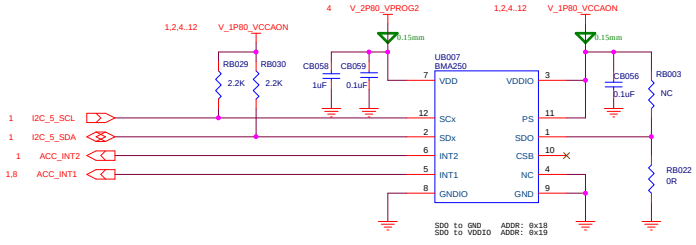


DUCATI_MB_V4P0			
Title	10 LCD_CAMERA_TOUCH PANNEL		
Size A2	Document Number		Rev V1.0
Date: Monday, March 24, 2014	Sheet 10 of 12		

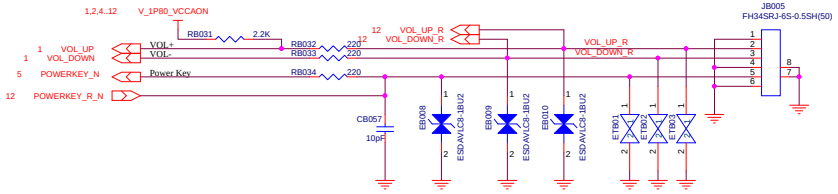
AUDIO CODEC CS42L73



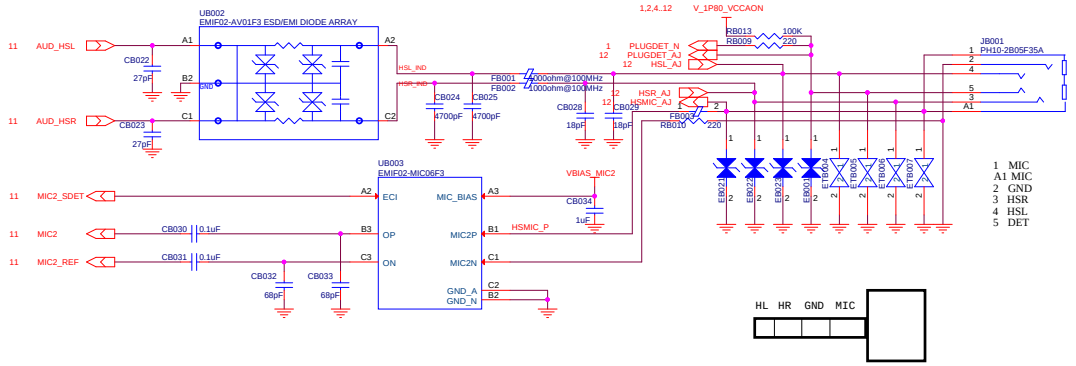
ACCELERATOR



KEYPAD CONN

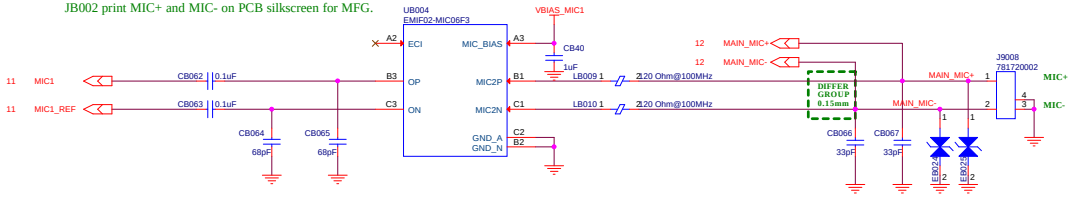


EARPHONE

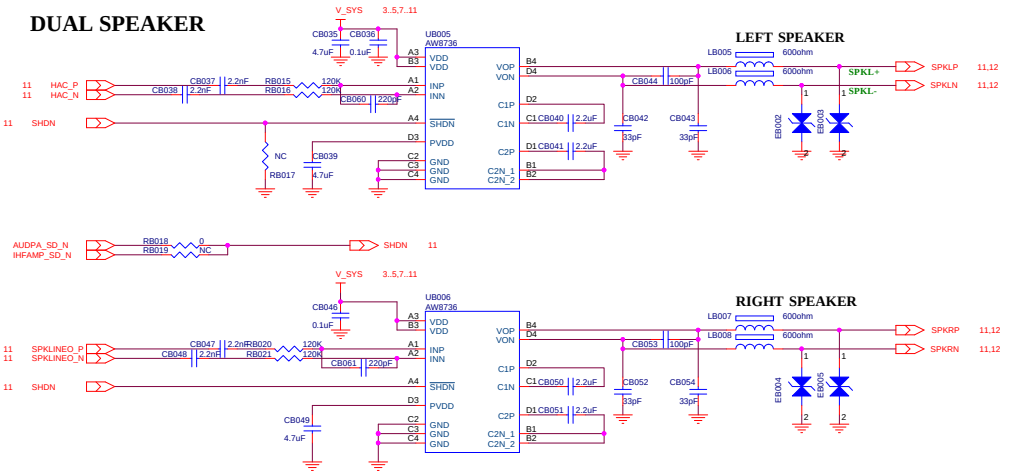


MAIN MIC

ECAD NOTE:
JB002 print MIC+ and MIC- on PCB silkscreen for MFG.



DUAL SPEAKER



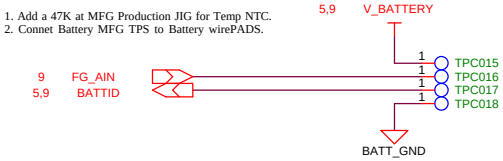
SPK CONN

DUCATI_MB_V4P0	
Title	11 AUDIO_CODEC_KEY_ASENSOR
Size A2	Document Number
Rev	V1.0
Date:	Monday, March 24, 2014
Sheet	11 of 12

AUDIO JACK

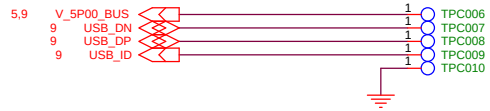
BATTERY

1. Add a 47K at MFG Production JIG for Temp NTC.
2. Connet Battery MFG TPS to Battery wirePADS.



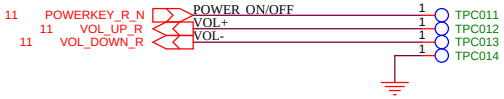
AUDIO

USB IF

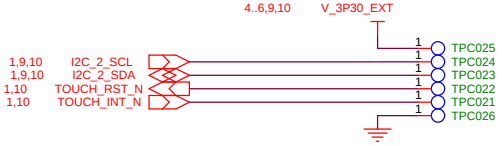


UART2

KEYPAD



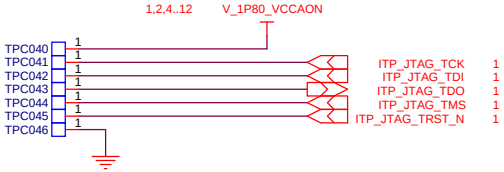
TOUCH PANNEL

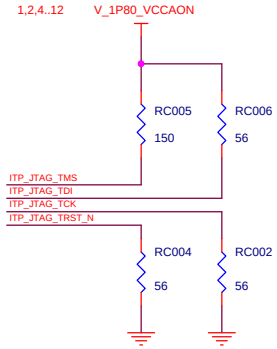


PRODUCTION TP

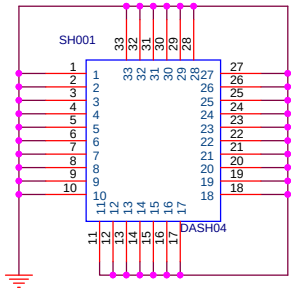
1. 50mils test points on PCB BOTTOM side.
2. Every TPs gorup must place to together.
3. All pruduction TPS are out of shielding case.

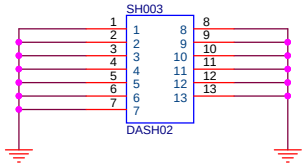
JATG TP

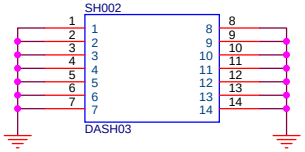


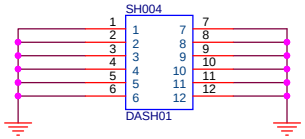


SHIELDING CASE

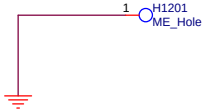








ME PTH



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