

ZZZ



PCB DAZ@
DA8000WX000
PCB 10G LA-A401P REV0 M/B HDI 1

S1



FRAME
ECOMV000200

@

S4



FRAME
ECOMV000200
for GLONASS

@

Compal Confidential

Schematics Document

ZSJVV

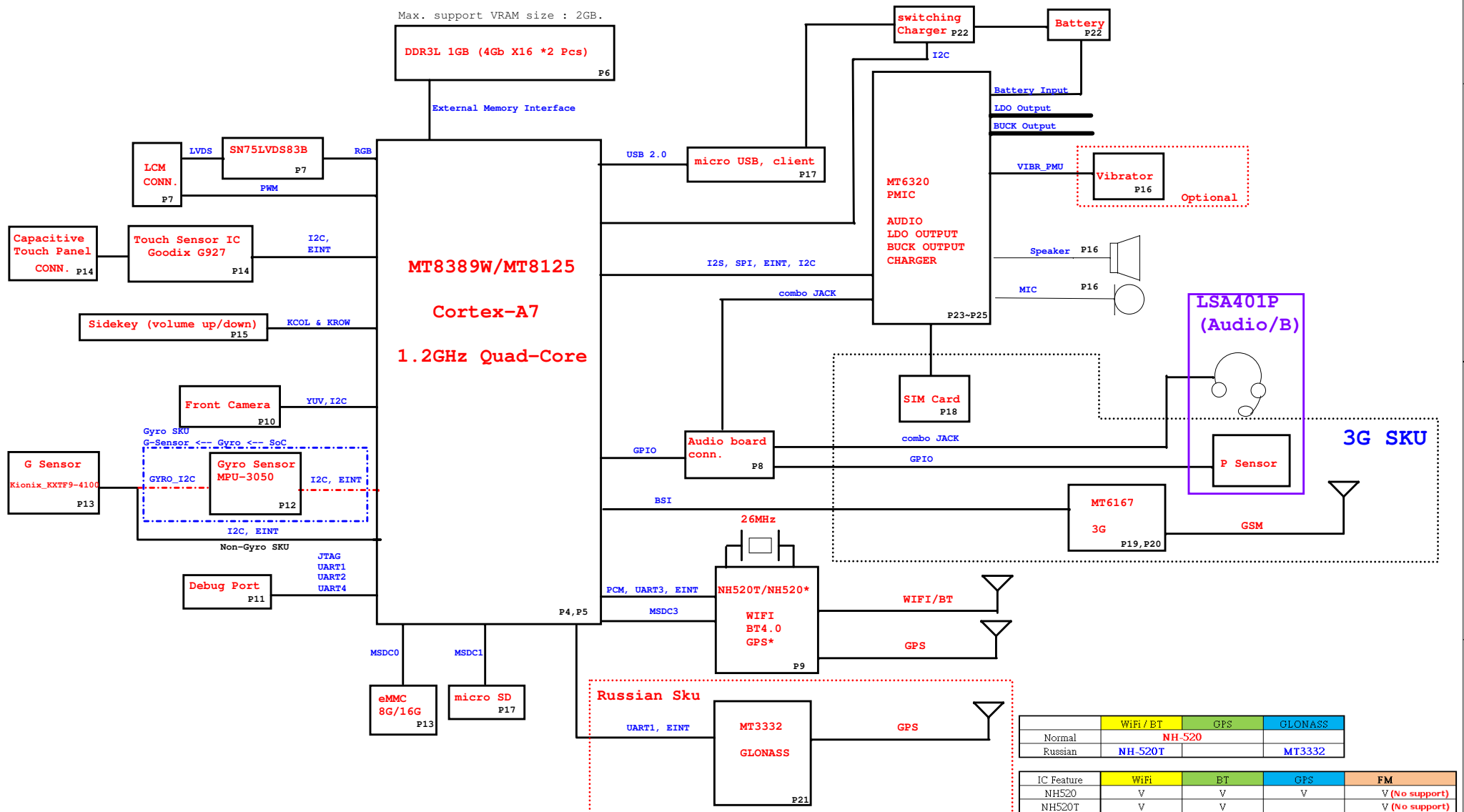
LA-A401P

2013-02-26

REV: 0.1

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giordano2 block diagram



	WiFi / BT	GPS	GLONASS
Normal	NH-520		
Russian	NH-520T		MT3332

IC Feature	WiFi	BT	GPS	FM
NH520	V	V	V	V (No support)
NH520T	V	V	V	V (No support)

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Voltage Rails

MT6320 Power Plane	Function	Power Level	IDLE	Sleep mode
VCORE_PMU	VCORE switching output	0.75 ~ 1.3	ON	Low voltage
VPROC_PMU	VPROC switching output	0.75 ~ 1.3	ON	Low voltage
VCXO_1_PMU	LDO output for TCXO	2.8V	ON	OFF
VCAMA_PMU	LDO output for camaera analog	2.8V	ON	Gating by SW
VSRAM_PMU	LDO output used for 1.2V SRAM	1.2V	ON	Low voltage
VDD28_6583	LDO output used for 2.8V IO	2.8V	ON	Gating by SW
VGP2_PMU	LDO output for camaera 1.8V	1.8V	ON	Gating by SW
VEMC_3V3_PMU	LDO output for eMMC&P-sensor	3.3V	ON	Gating by SW
VMCH_PMU	LDO output for SD card	3.3V	ON	Gating by SW
VGP5_PMU	LDO output for Touch panel	2.8V	ON	Gating by SW
DDR3VCCIO	LDO output for DDR3L	1.35V	ON	Gating by SW
VDD33_6583	LCD & Bridge power	3.3V	ON	Gating by SW
VDD18_6583	LDO output used for 1.8V IO	1.8V	ON	Gating by SW
VRF18_PMU	LDO output for RF_MT6167	1.8V	ON	Gating by SW

Main board ID

MB_ID0	MB_ID1	
0	0	EVT
0	1	DVT
1	0	PVT
1	1	MP

I2C address

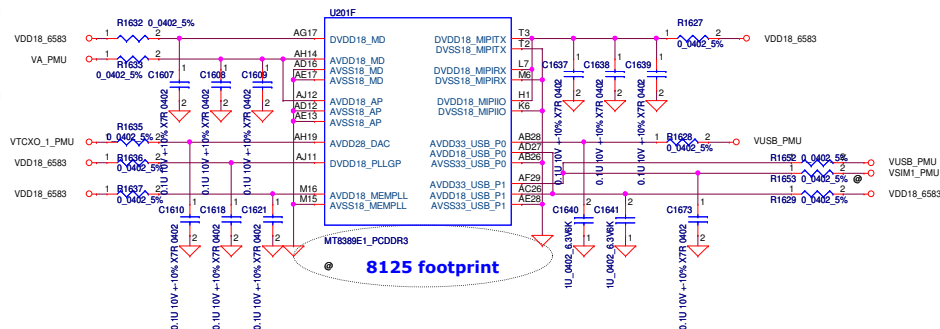
Device	Address(7 bit)	Address(8bit)	
		Write	Read
Gyro (MPU-3050)	0x68	0xD0	0xD1
G-sensor (KXTIK-1004)	0x0F	0x1E	0x1F
Touch screen (GT927)	0x5D	0xBA	0xBB
Camera (OV7675)	0x21	0x42	0x43
Charge (BQ24196)	0x6B	0xD6	0xD7
G-sensor(KXTIK-1004)	0x0F	0x1E	0x1F
PMU(MT6320)			

BOM structure

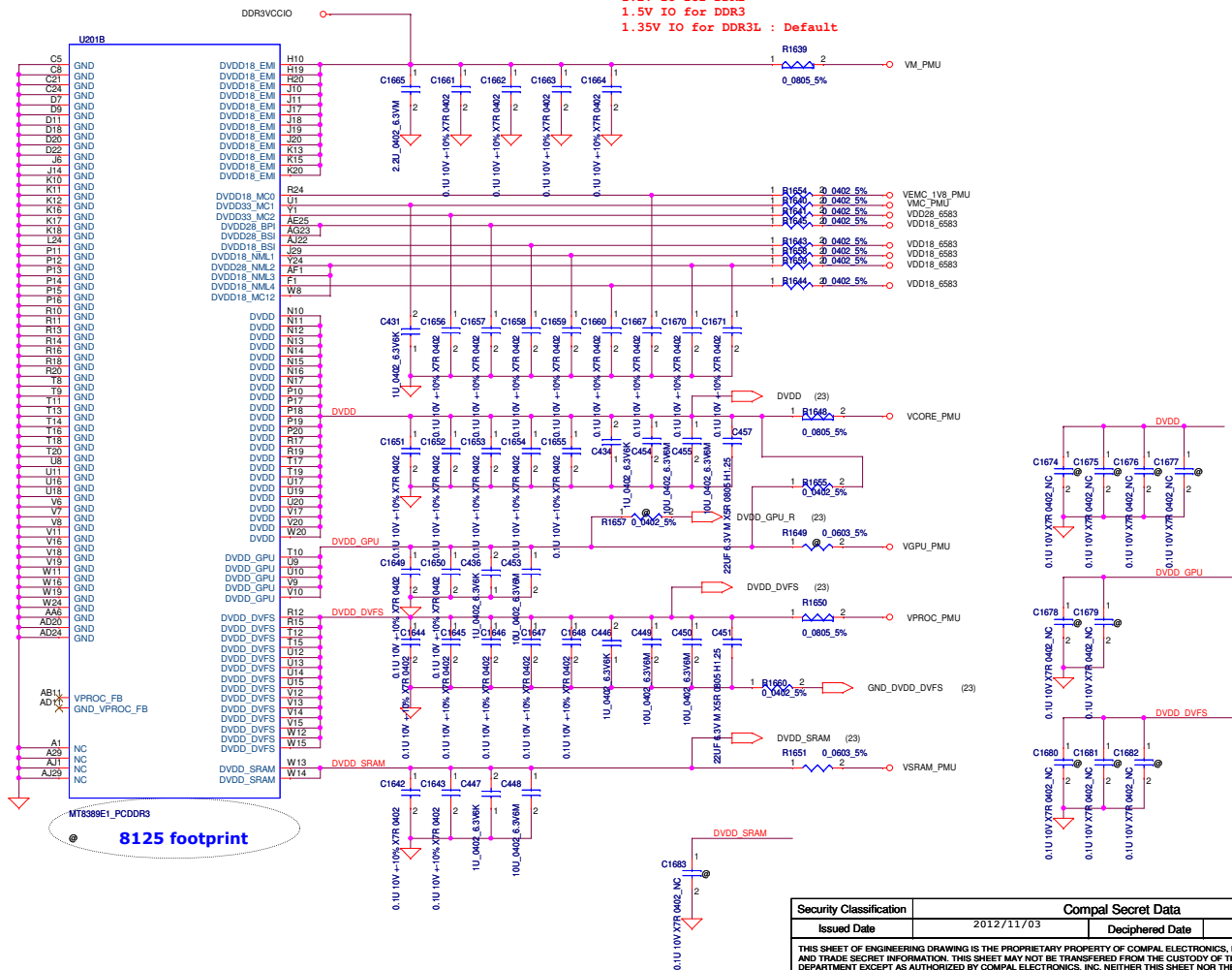
Name	Function	
3G@	3G only	
WIFI_ONLY@	WIFI ONLY	
DAZ@	PCB	
EMC@	for EMC request	
NH520@	AW-NH520	
NH520_EMC@	GPS EMC	
GLONASS@	MT3332	

U201 3G@
SA00006SG00
S IC MT8389WK/A 1.2G FCCSP 515P CPU

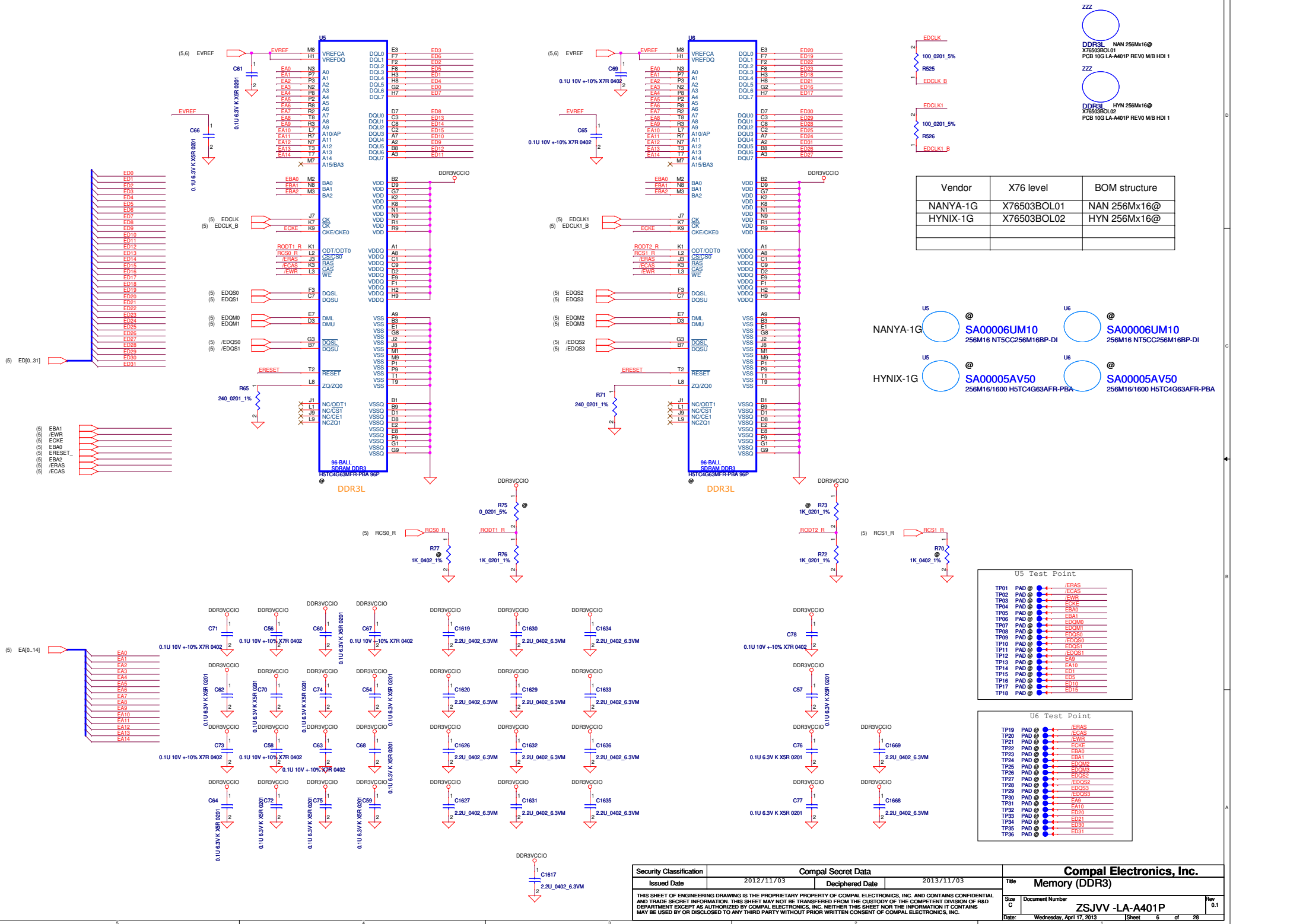
U201 WIFI_ONLY@
SA00006S500
S IC MT8389WK/A 1.2G FCCSP 515P CPU



```
1.8V IO for DDR
1.2V IO for DDR2
1.5V IO for DDR3
1.35V IO for DDR3L : Default
```



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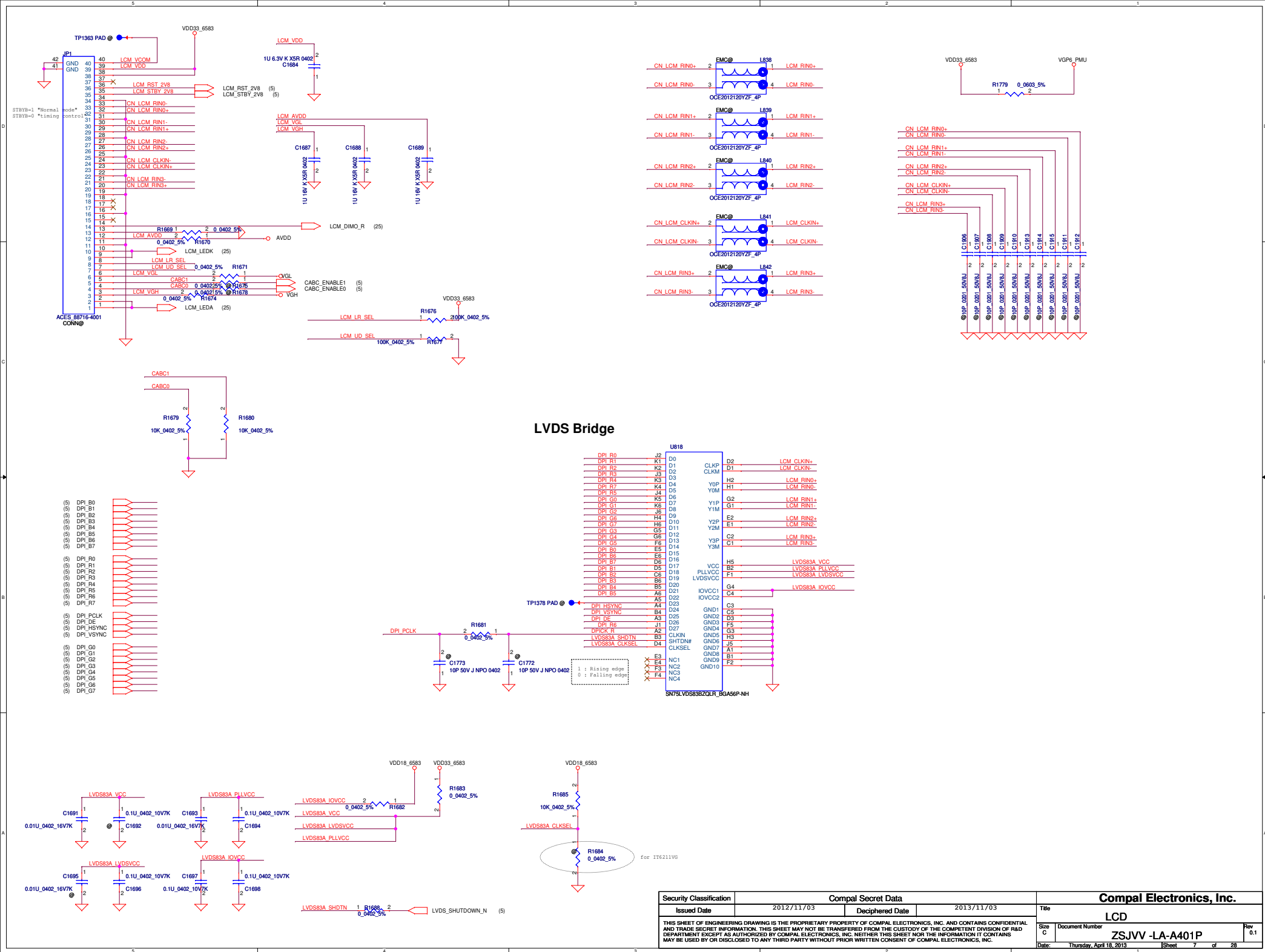


Vendor	X76 level	BOM structure
NANYA-1G	X76503BOL01	NAN 256Mx16@
HYNIX-1G	X76503BOL02	HYN 256Mx16@

NANYA-1G	@ SA00006UM10 256M16 NT5CC256M16BP-DI	@ SA00006UM10 256M16 NT5CC256M16BP-DI
HYNIX-1G	@ SA00005AV50 256M16/1600 H5TC4G63AFR-PBA	@ SA00005AV50 256M16/1600 H5TC4G63AFR-PBA

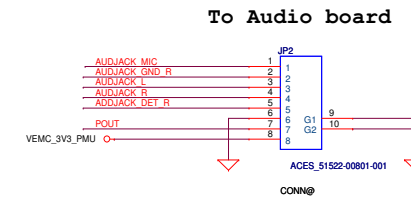
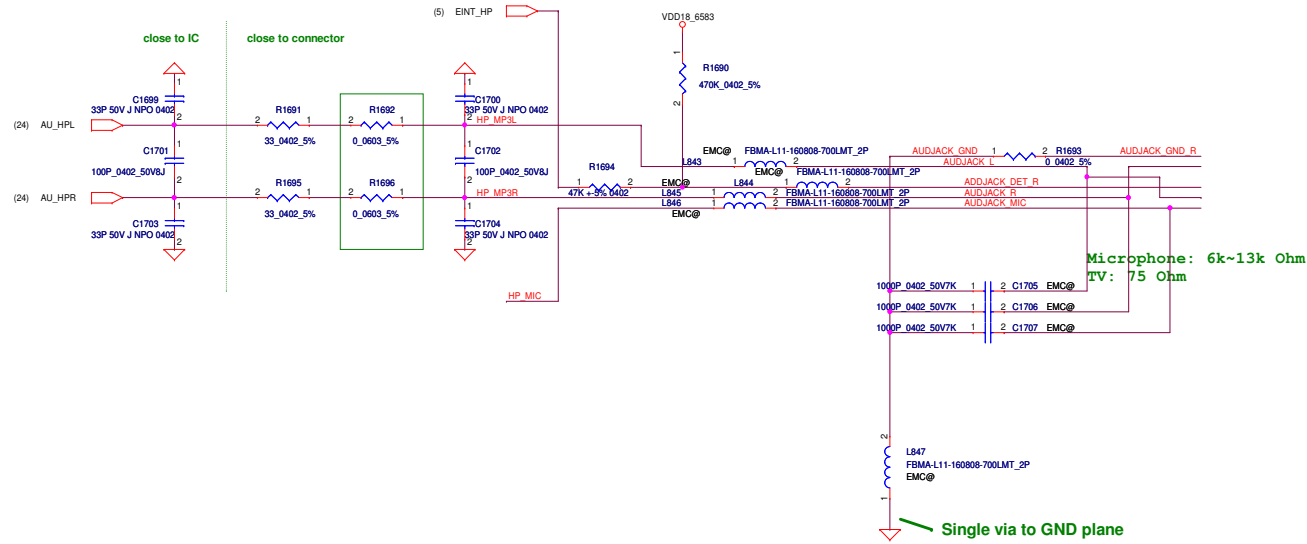
U5 Test Point	
TP01	PAD @ EREF
TP02	PAD @ EREF
TP03	PAD @ EREF
TP04	PAD @ EREF
TP05	PAD @ EREF
TP06	PAD @ EREF
TP07	PAD @ EREF
TP08	PAD @ EREF
TP09	PAD @ EREF
TP10	PAD @ EREF
TP11	PAD @ EREF
TP12	PAD @ EREF
TP13	PAD @ EREF
TP14	PAD @ EREF
TP15	PAD @ EREF
TP16	PAD @ EREF
TP17	PAD @ EREF
TP18	PAD @ EREF

U6 Test Point	
TP19	PAD @ EREF
TP20	PAD @ EREF
TP21	PAD @ EREF
TP22	PAD @ EREF
TP23	PAD @ EREF
TP24	PAD @ EREF
TP25	PAD @ EREF
TP26	PAD @ EREF
TP27	PAD @ EREF
TP28	PAD @ EREF
TP29	PAD @ EREF
TP30	PAD @ EREF
TP31	PAD @ EREF
TP32	PAD @ EREF
TP33	PAD @ EREF
TP34	PAD @ EREF
TP35	PAD @ EREF
TP36	PAD @ EREF

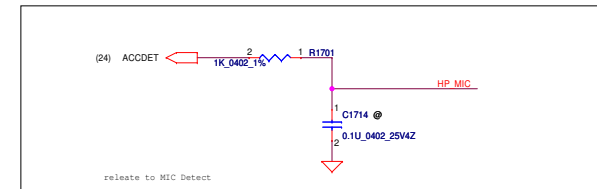
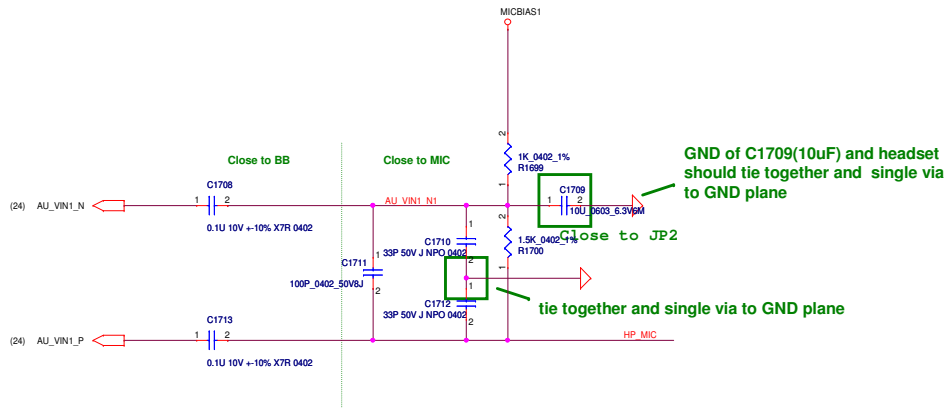
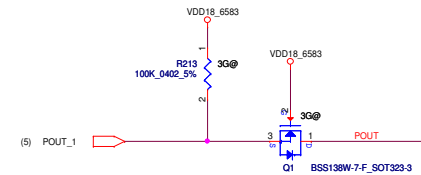


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Earphone RECEIVER

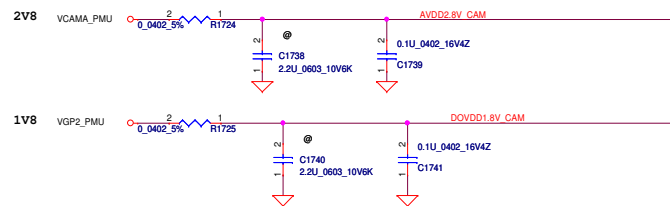
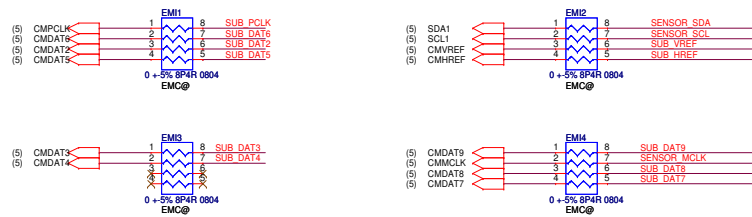


Earphone MICPHONE

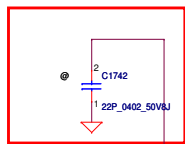


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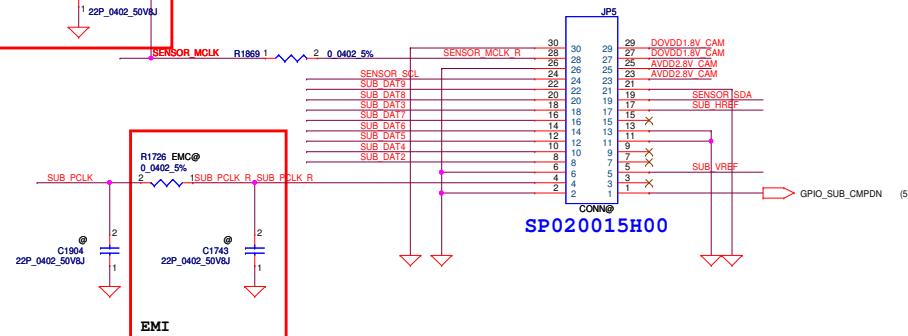
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Acer reserve

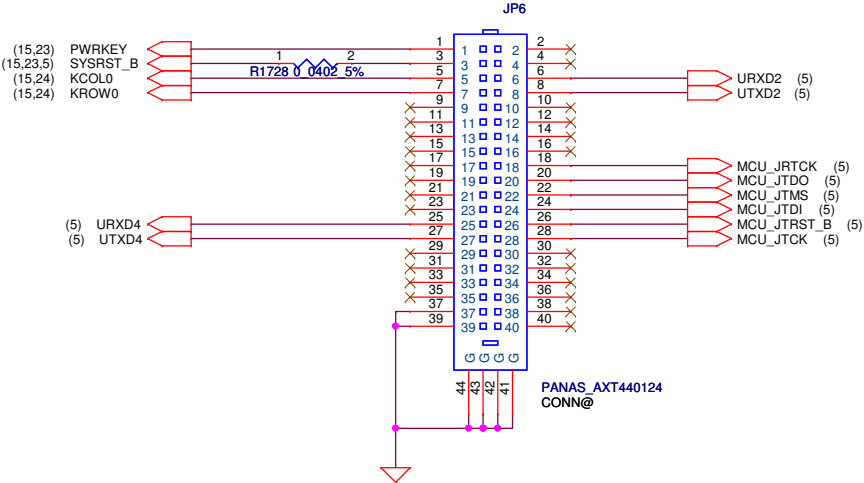


0.3M connector

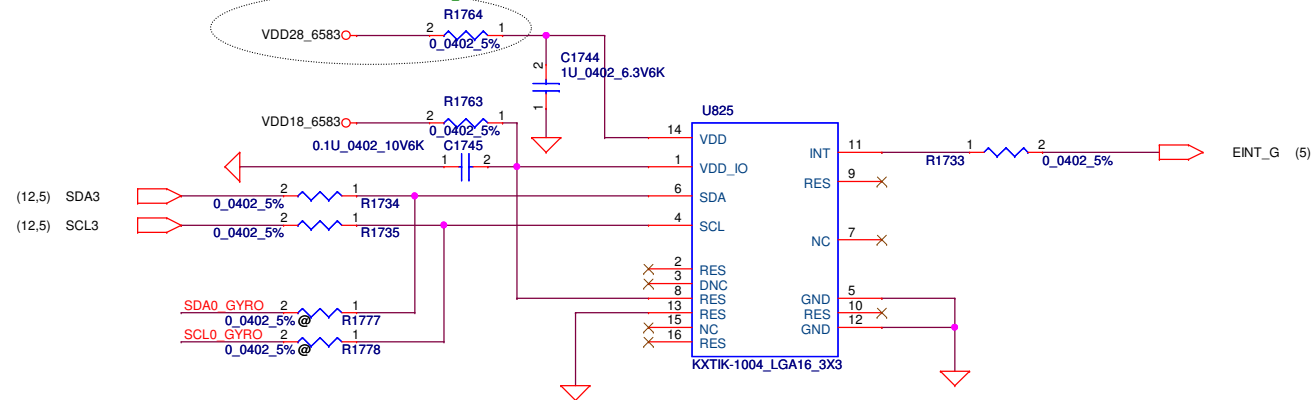


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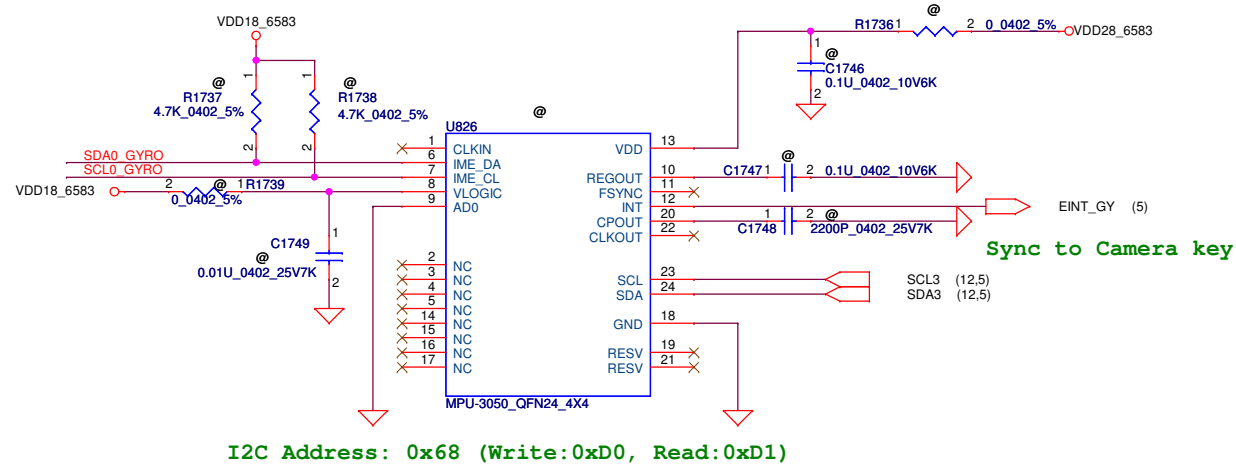
Common Debug



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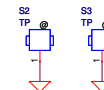
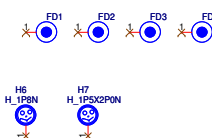
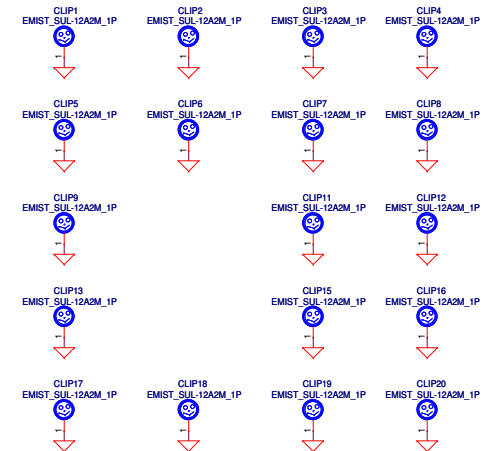
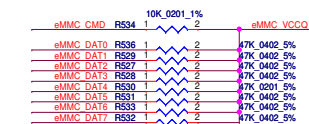
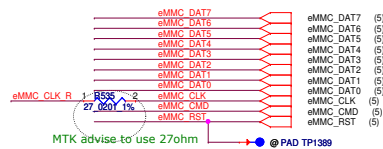


Gyro Sensor

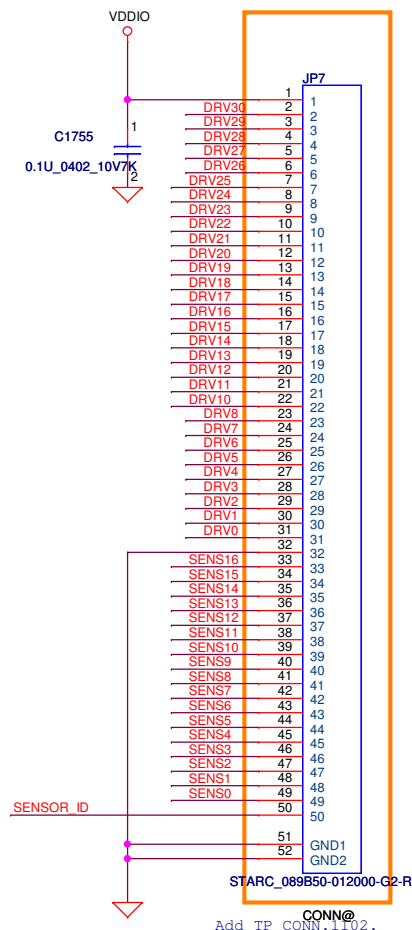
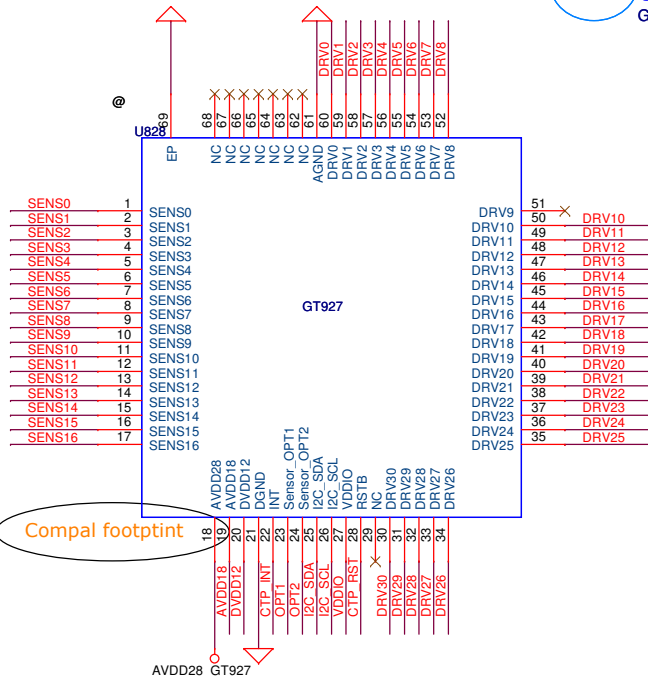
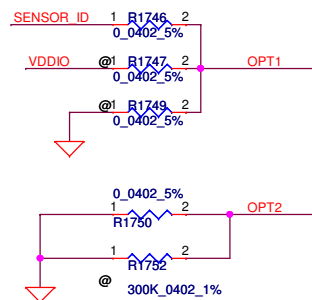


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Close to Memory



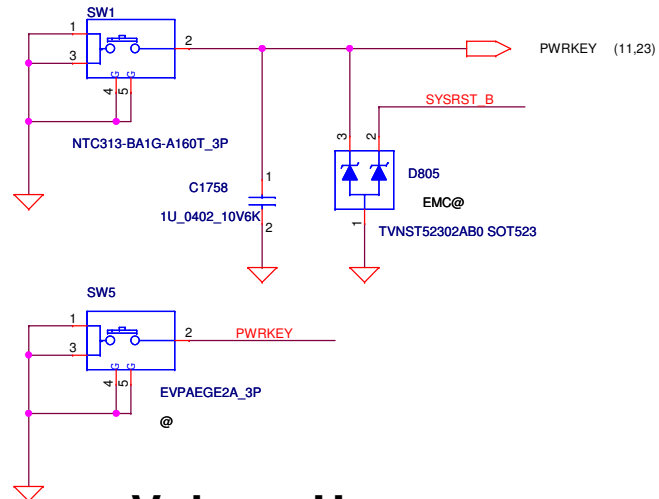
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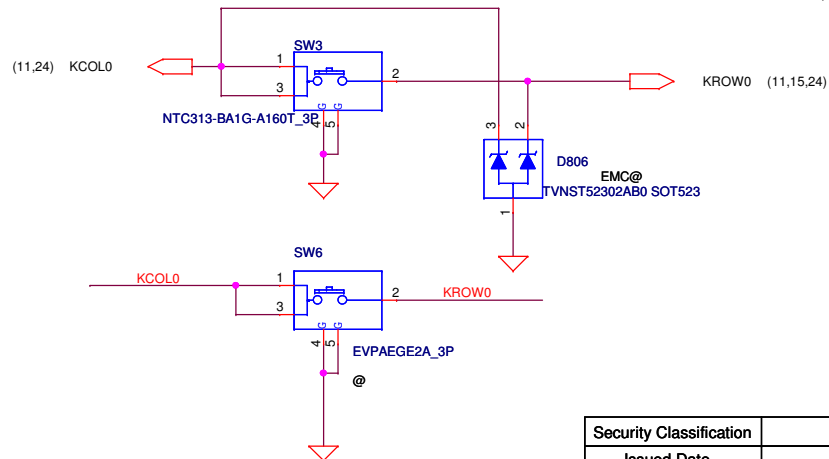
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Power-on Button

MTK comment don't pull up R on PWRKEY.1101.

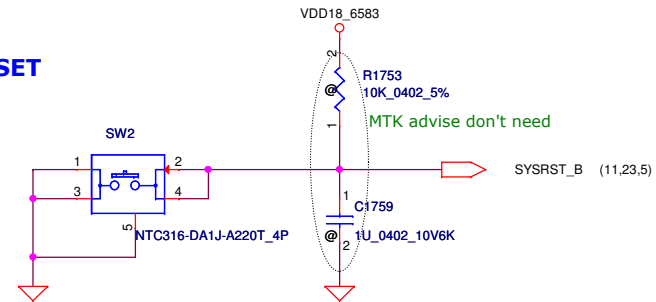


Volume Up (Download Key)

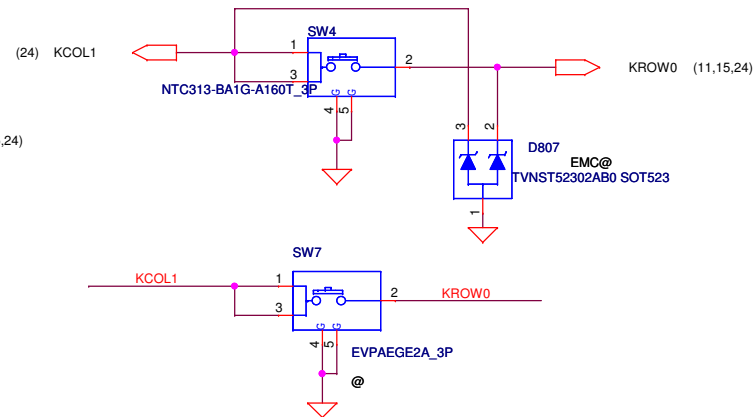


Compal GND MTK GND

RESET

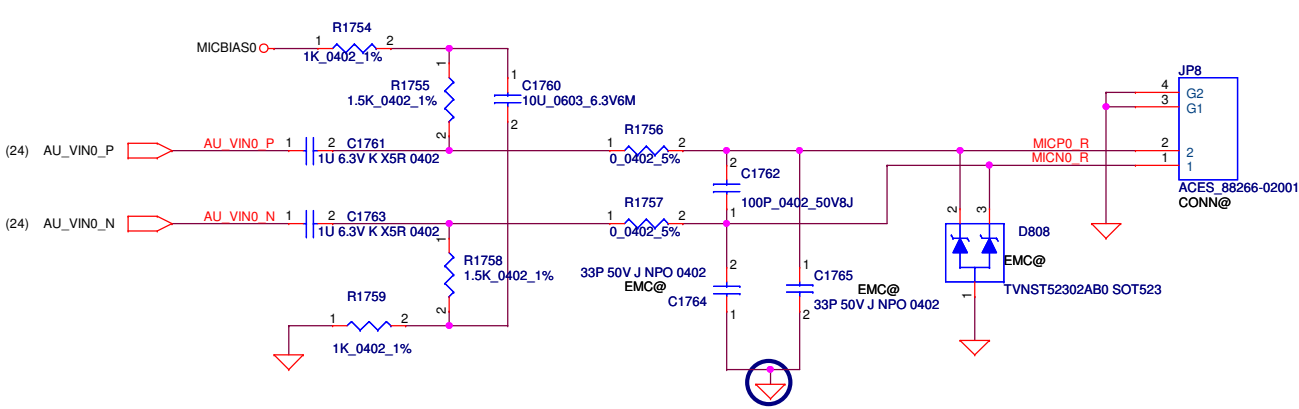


Volume Down



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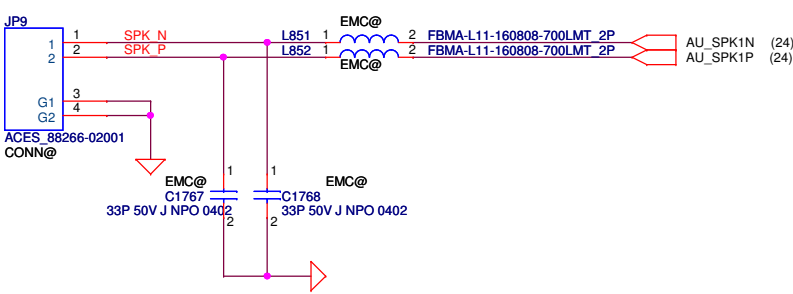
MIC



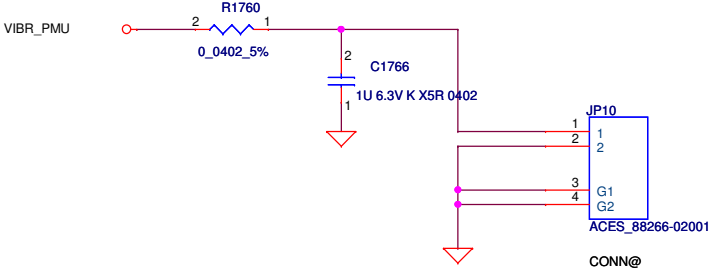
Modify MIC CONN SCH.1102.



SPAKER



Vibrator

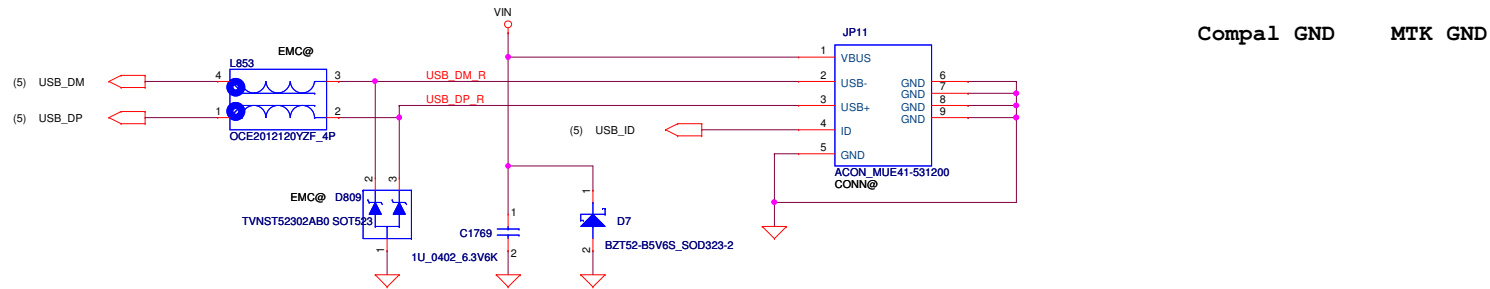


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2013/11/03		Title		Connector(MIC/SPK/HP)	
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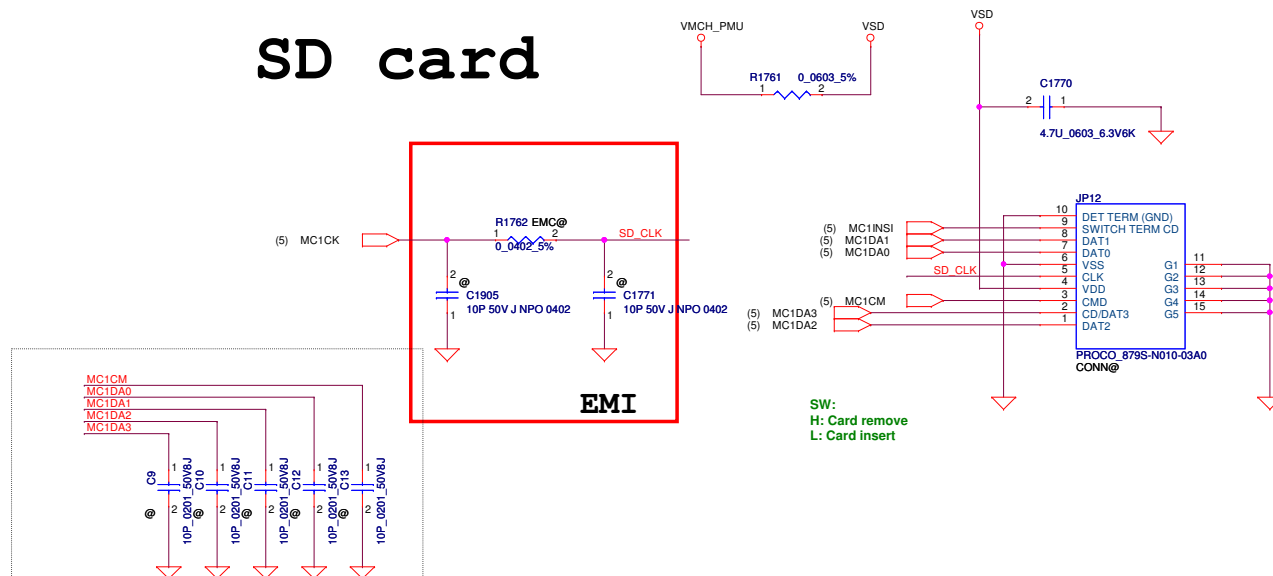
Micro-USB

If mini-A connector insert => CID < 0V => Low
If mini-B connector insert => CID > 1.2V => High
IDPULLUP pin is replaced by 1.2V power source.

FOR RF request



SD card

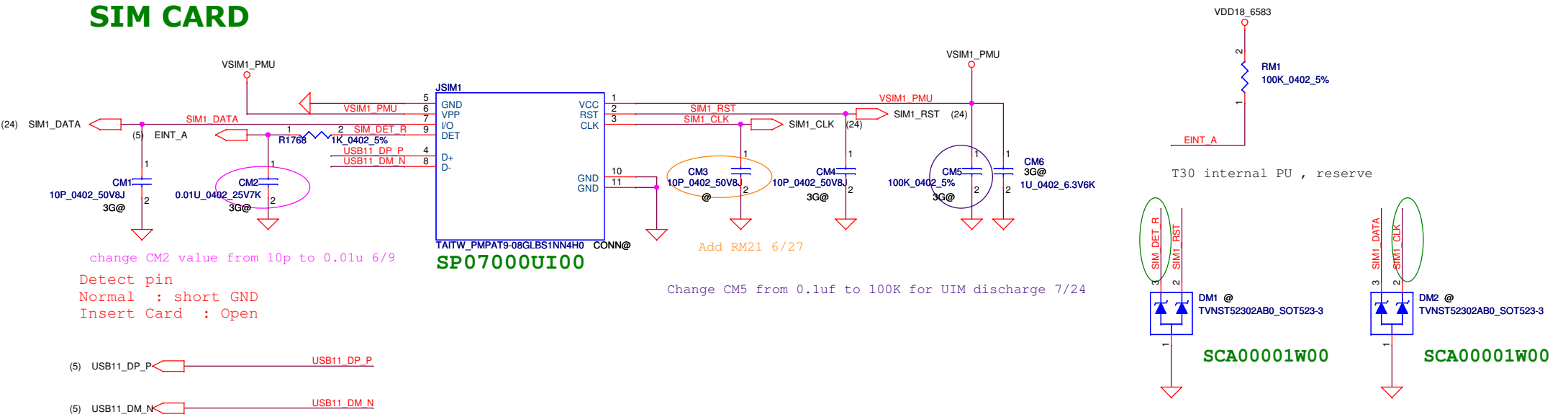


for RF request
close U201 side

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SIM CARD

Compal GND MTK GND



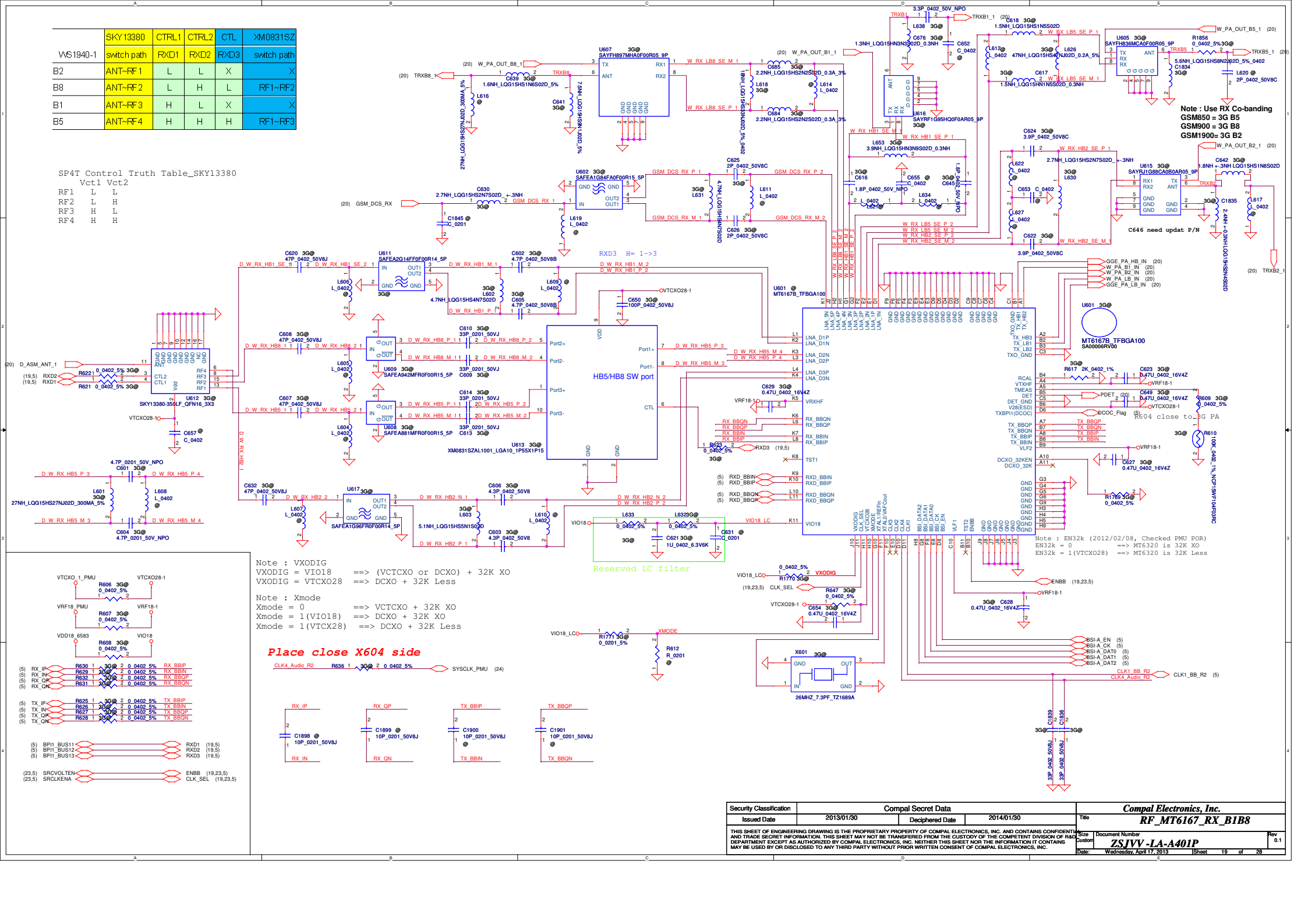
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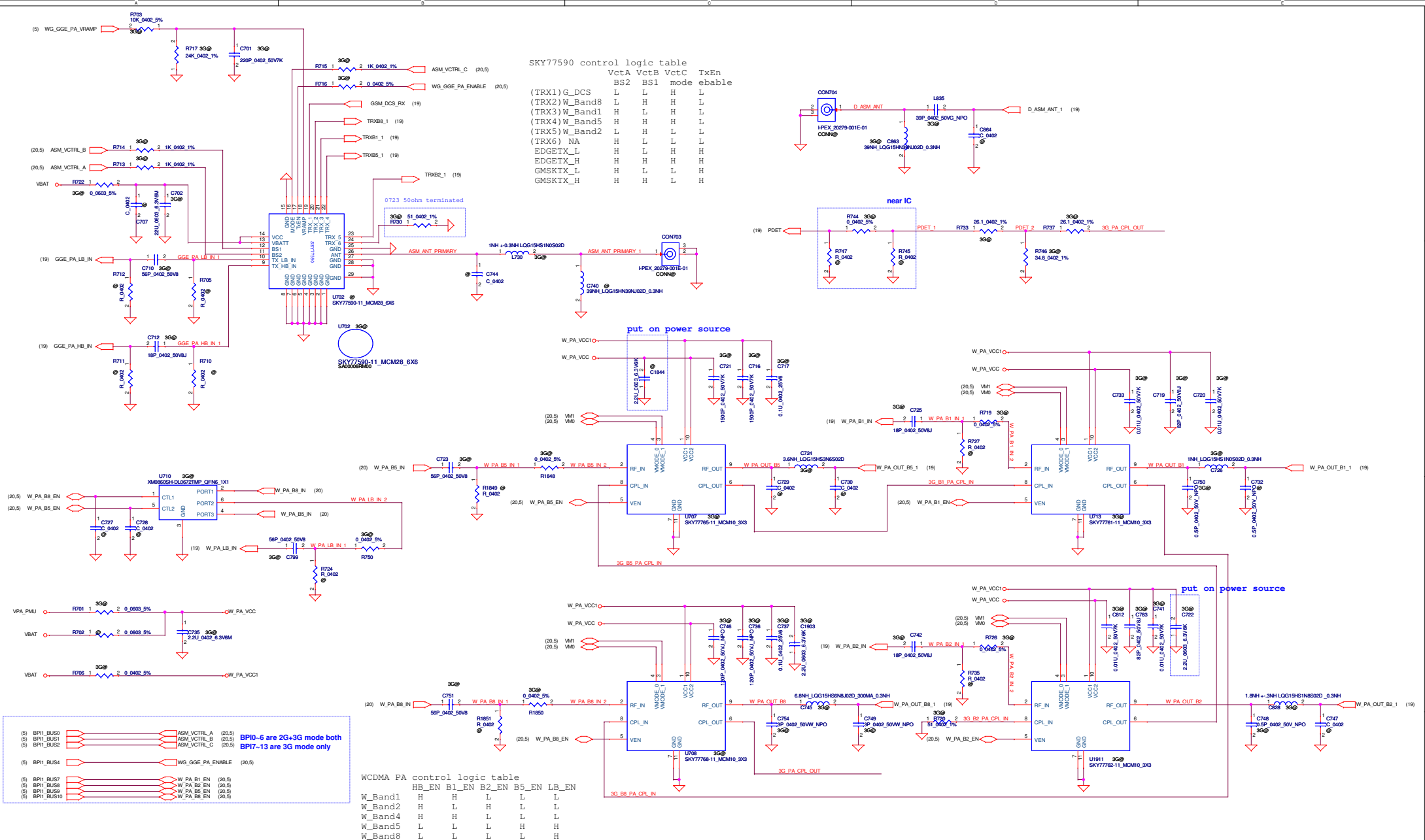
WS1940-1	SKY13380	CTRL1	CTRL2	CTL	XM0831SZ
B2	ANT-FF1	L	L	X	X
B8	ANT-FF2	L	H	L	RF1~RF2
B1	ANT-FF3	H	L	X	X
B5	ANT-FF4	H	H	H	RF1~RF3

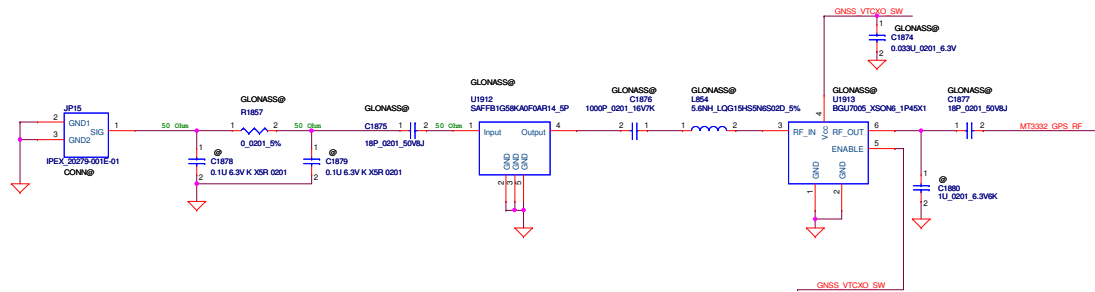
SP4T Control Truth Table_SKY13380

Vct1 Vct2

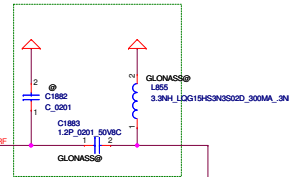
RF1	L	L
RF2	L	H
RF3	H	L
RF4	H	H



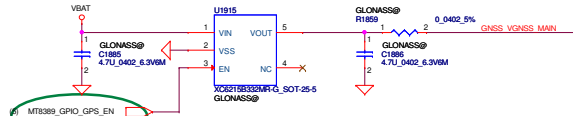




MT3332 on-chip LNA Matching



3.3V LDO



Connect to Host GPIO Pin

U1906 without output high-speed discharge function, then tdrop-down (2.7V-to-0.5V) > 50ms.
Please use MTK qualified LDOs, such as Torex XC6215/XC6221.

SA00006M400
S IC MT3332N QFN 48P GPS

C1891 is close to pin11

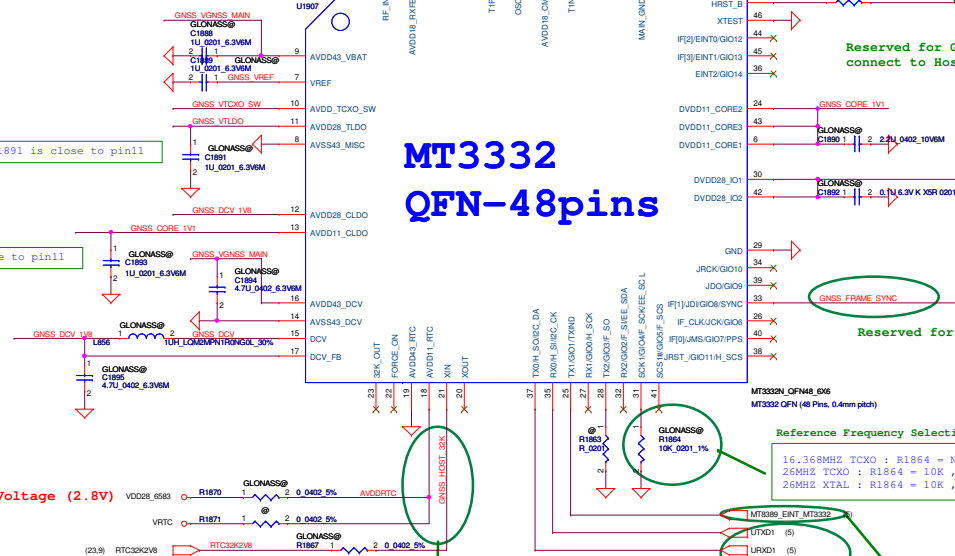
C1893 is close to pin11

pin14 connect to C1894 GND net first,
then connect to reference GND

RTC Voltage (2.8V)

Connect GNSS_HOST_VRTC to always alive voltage source, and keep the voltage swing of GNSS_HOST_32K RTC clock same as GNSS_HOST_VRTC.

MT3332
QFN-48pins



1.8V / 2.8V IO Voltage Selection

2.8V IO : U1907 pin30 - 42 need change to GNSS_VTLDO
1.8V IO : U1907 pin30 - 42 (IO voltage is SMP5_IVB)

Reserved for GPS HRST from host,
connect to Host (MT62xx) GPIO pin

Reserved for improving GNSS Hot-Start performance.

Reference Frequency Selection

16.368MHz TCXO : R1864 = NC, PIN_41 = NC
26MHz TCXO : R1864 = 10K, PIN_41 = NC
26MHz XTAL : R1864 = 10K, PIN_41 contact 10K

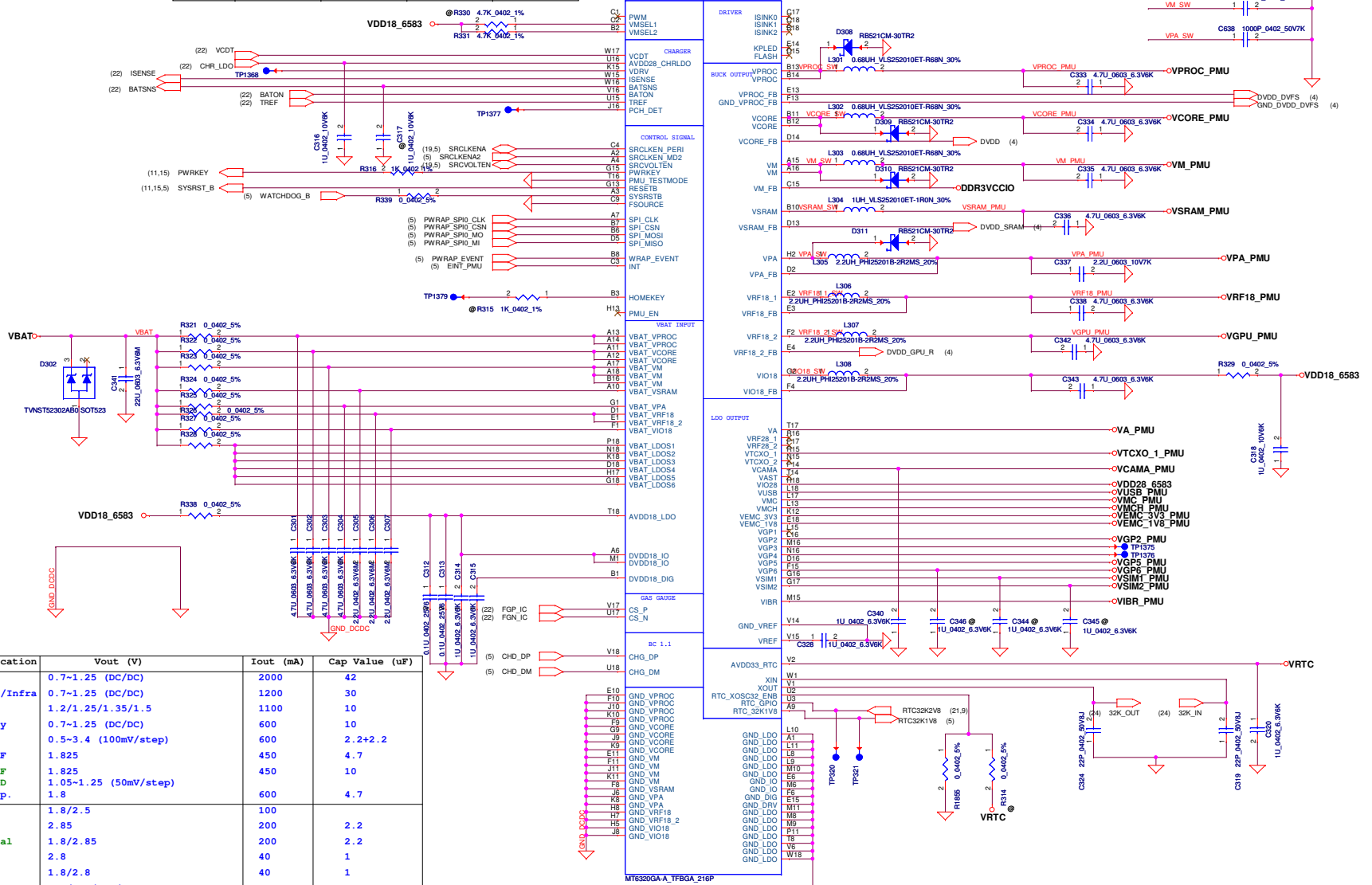
As EINT to Host

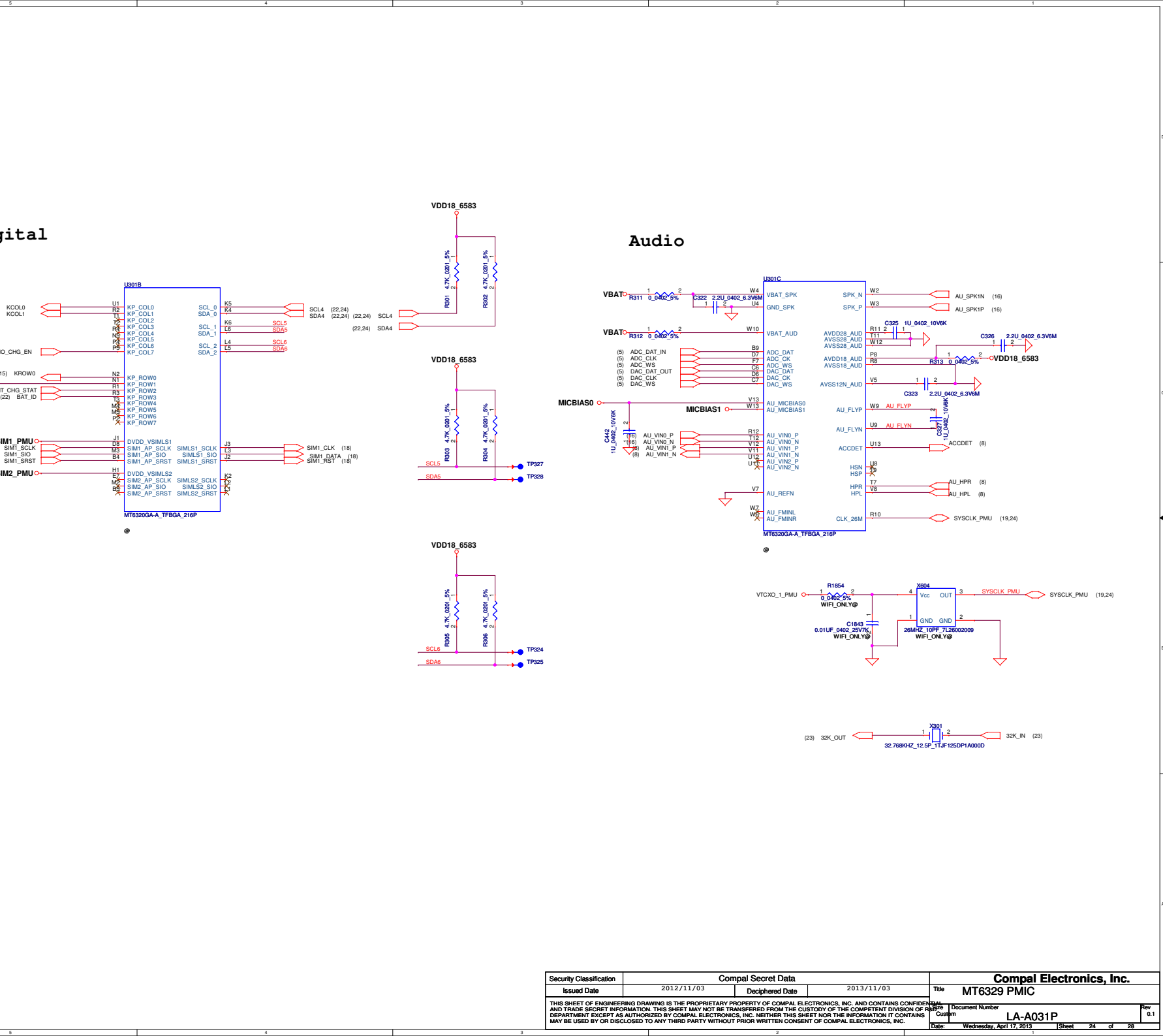
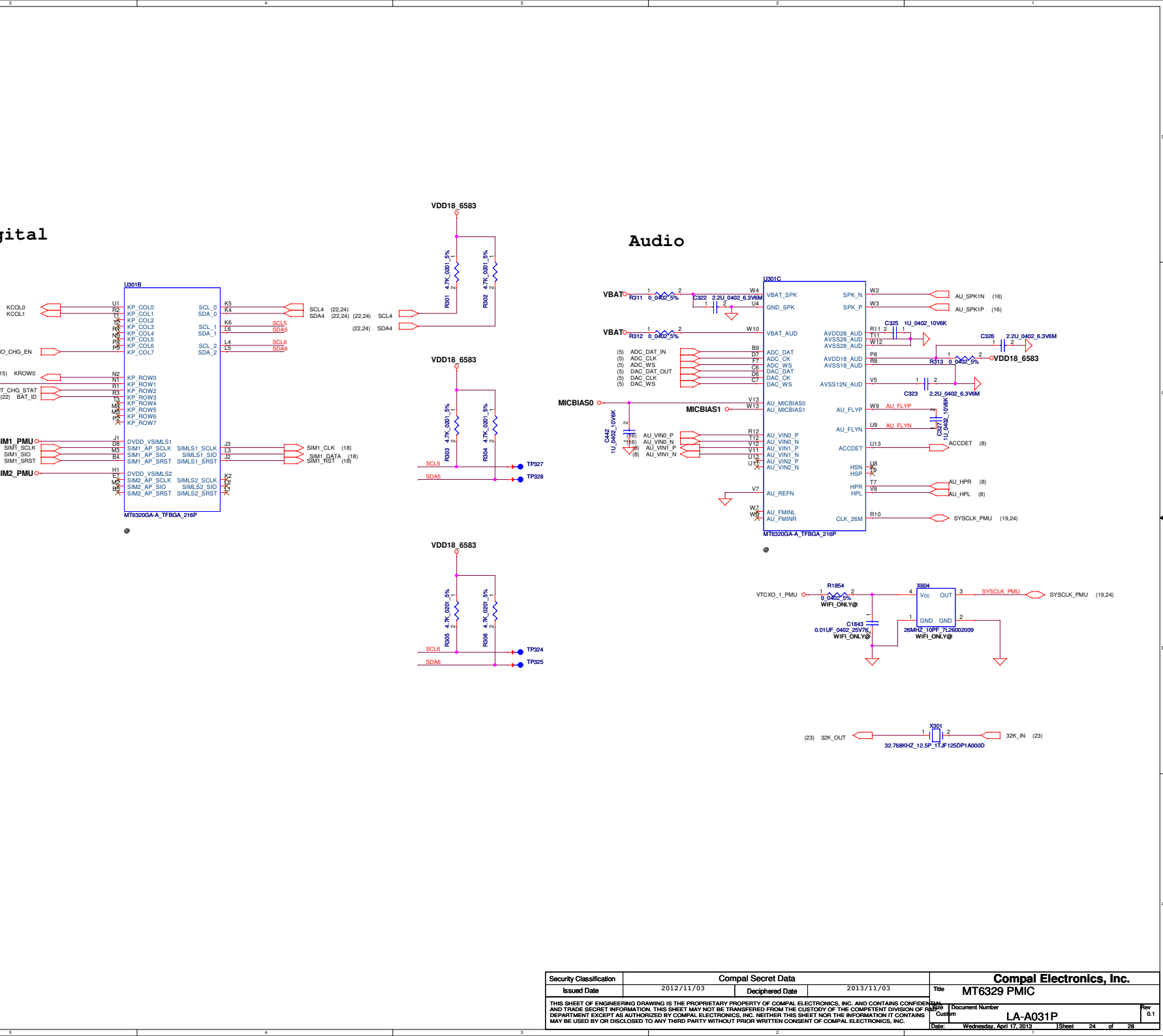
Connect to HOST UART (TX/RX) interface

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PMIC

	LPDDR2/1.2V	DDR3U/1.25V	DDR3L/1.35V	DDR3/1.5V
VMSEL2	L	L	H	H
VMSEL1	L	H	L	H



[illegible]

MT6329 PMIC

Security Classification

Compal Secret Data

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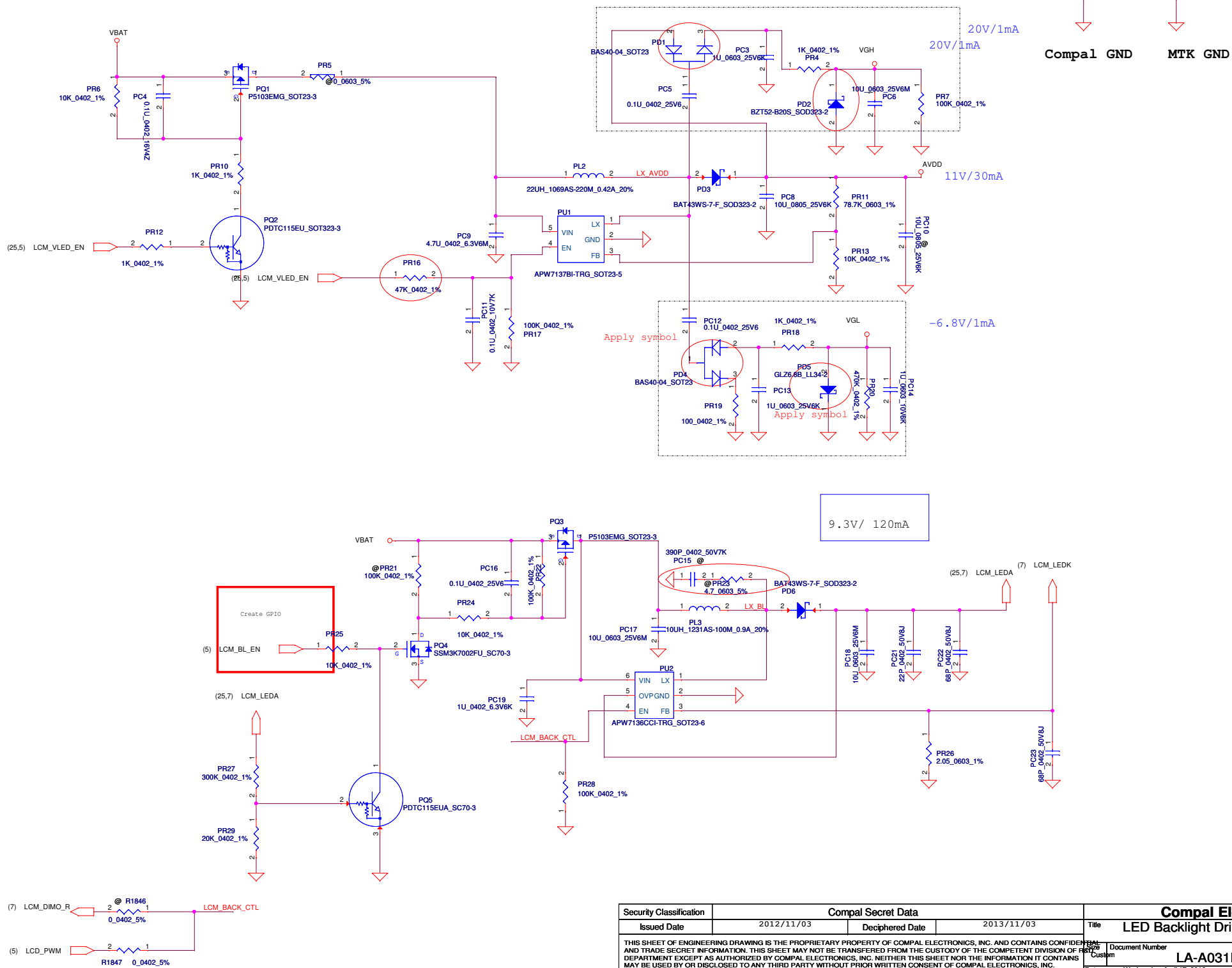
Title MT6329 PMIC

Document Number LA-A031P

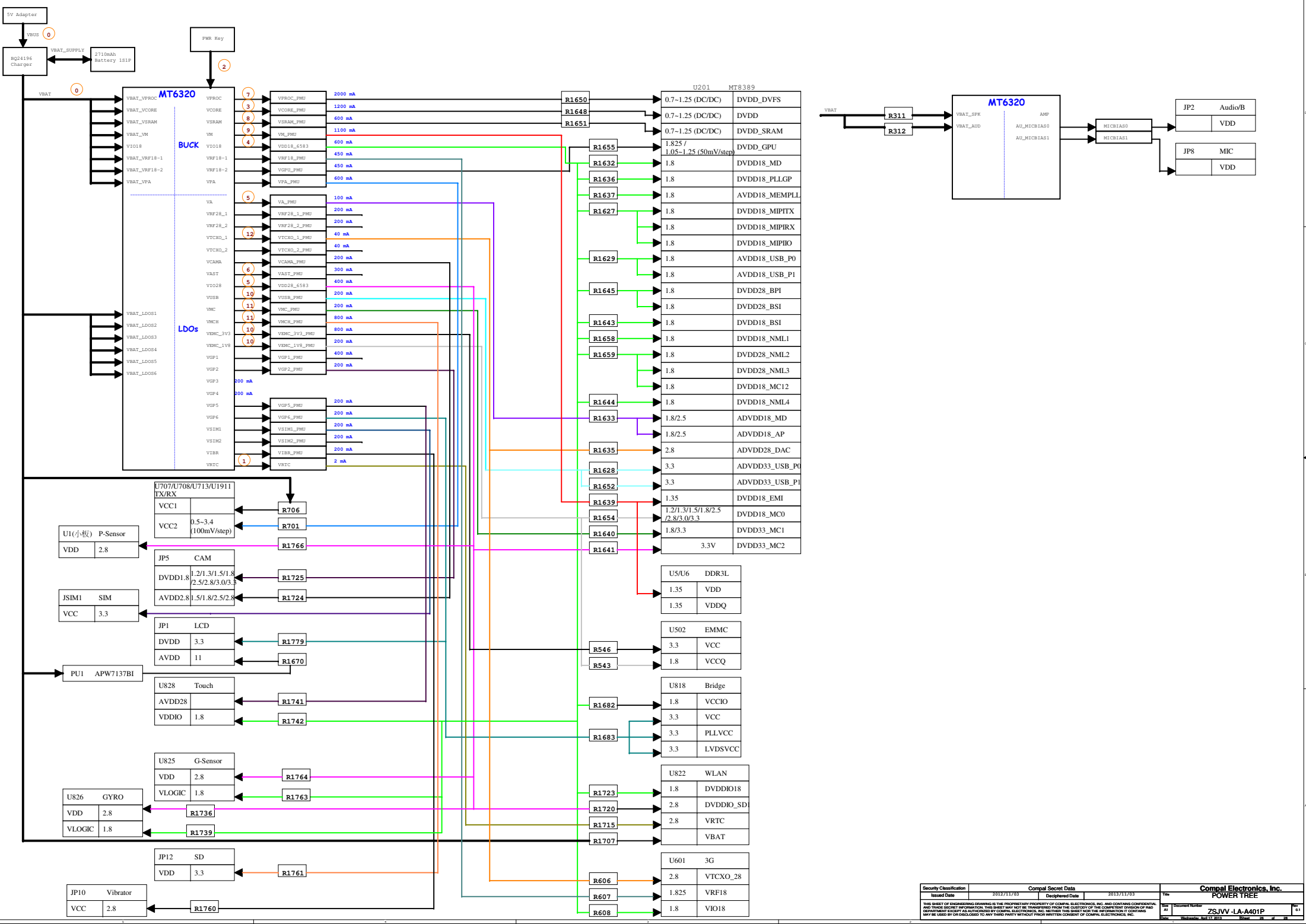
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2013/3/11
Update PD11 , D308 , D309 , D310 , D311 , L301 ,
L302 , L303 , L304 , L307 , C647 , C646 , C635 ,
C638 compal P/N
Change to un-pop : PR50 , R1838 , R314 ,R315
Change to pop : R1855

2013/3/13
Add C318

2013/3/14
Del R332,R348

2013/4/1
add R1847
reserve 0-ohm for panel design

2013/4/10
reserve C346 for VGP6 PMU
PR51 change to 15K_0402_1%
PH1 change to 10K_0402_1%

2013/4/15
Add PL5 , PC143 ,PC144 for EMI request
Add PC21 , PC22 ,PC23 for RF request

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2013/2/25
P04. NC parts change to 0.1uF_0402_NC
R1648~R1651 to 0_0603
R1639 to 0_0805
P05. R634 from P19 to P05
update X602 symbol
del no functin net :
U201C_AF10, U201D_C29~J25, U201E_G2
P06. DEL TP1392PAD~TP1395PAD
P07. DEL R1672,R1673,net cabc_enable1/0
C1687~C1689 change to 1U_16V
C1691~C1698 change to 0.1U_10V&0.01U_16V
C1692,C1695 to @
P08. DEL R1702,net ADC1_ACCESSORY
JP2_PIN.8 change to VEMC_3V3_PMU
JP2_PIN.6 change to GND
P09. R1711,R1716~R1719,R1721,R1722 to 0_0201
P11. DEL R1731,R1732, net UTXD1_URXD1_DEBUG
R1729,R1730 to short
R1728,R1727 del @
P12. R1764 to short
U825 VDD28_6583 change to VDD18_6583
P13. DEL R1740, net VDD28_6583
H7 change to H_1P5X2P0N
P14. R1743,R1744 to short
P15. SW3 PIN.3 to KCOL0
SW4 PIN.3 to KCOL1
P16. JP10 PIN.2 to GND
P17. ADD D7
ADD C9~C12 for RF request
P18. DEL RM2
R1765,R1766 move to U201 side
Update 3G schematic:
1.change size from 0402 to 0201 of R633,C631,R612,R1771
2.Add shunt cap in RX matching circuit.
3.Remove R645,U614,C644,R643
Change C656,C643 bom structure to @
4.remove R613
5.change C610,C609,C614,C613 footprint from 0402 to 0201
6. change C601,C604 footprint from 0402 to 0201
(need update P/N)
7 .Del R634 (change to P5)

2013/2/26
Update Block diagram,Notes list
P05. DEL net URXD2,UTXD2,BP11_BUS5/6,VBIAS
R1765 pin2 contact USB11_DP_P
R1766 pin2 contact USB11_DM_N
P06. C64 , C70 , C 68 change to 0201
P08. JP2_PIN2. del GND
P09. Del net MT6620_EEDI,MT6620_SDI01
RTCCLK_6620,SYSRST_B_6620,PMU_EN_6620
GPS_SYNC_6620
P12. ADD R1764 for co-lay STK8313
Update 3G schematic:
1.Update C601,C604 P/N to SE000010K00
2.C754,C749,C748,C750: @ to 3G@
3.Change C733 to 0.01u
4.add remind as below in C1844 and C722

2013/2/27
P04. R1639 to 0805 short pad
P05. R1765,R1766 change to 3G@
P10. JP5 mirror horizontally
P13. PAD1~3 change to S2~4
P17. ADD C13
C9~C12 change to @

2013/3/1
P04. change R1639 footprint from 0805-s to 0805
R1648,R1650 change to 0603 short pad
update PWR schematic
update 3G schematic
Due to RX trace "交錯線"
Change W_RX_HB1_SE_M_1 to U616.8
W_RX_HB1_SE_P_1 to U616.1

2013/3/1_A
P05. U201_AH4,AF6 change to MB_ID0/1
U201_AJ3,AH5,AG5 change to GPIO_0~3
ADD R1520~R1529,net CHG_TEMP
P11. DEL R1727
update PWR schematic

2013/3/1_B
P04. R1648,R1650 change to 0805 short pad
P21. update PU3 footprint
P24. DEL PR3

2013/3/2
update 3G schematic
P19. U613.7 contact to D_W_RX_HB5_P_3
U613.8 contact to D_W_RX_HB5_M_3
update PWR schematic
P22. GND_DCDC contact to GND

2013/3/3
update PWR schematic

2013/3/4
P03. update MB_ID table
fix DRC error

2013/3/5
update 3G schematic.
Del TP1396,TP1397
update PWR schemaitc
fix DRC error

2013/3/6
P05. net MB_ID1 change to U201_AA28
net GPIO_0 change to U201_AA29

2013/3/7
P07. ADD R1684 for IT6211VG
ADD R1675,R1678, net CABE_ENABLE0/1
P09. U822_PIN15 change to net MT6620_1V8
remove R1720, C1736
Add P21. for GPS MT3332 circuit
update 3G schematic
P19. Add C1896~C1901
del R633,R619,R620,R611

2013/3/8
P13. DEL CLIP10,14, S4
Update 3G schematic
U601.A11 ----> NC

2013/3/8A
P09. ADD R1713
Update MT3332 schematic
remove R1858,R1861,R1863,R1865
R1866,R1868

2013/3/9a
Update 3G schematic
modify C1898,C1899 net name

2013/3/11
Add P26 POWER PIR
P21. Update L856 LIB & P/N
update PWR schematic

2013/3/12
update block diagram
add power tree page

2013/3/13
ADD NH520@,NH520_EMC@
modify RAM BOM structure
P01 Add S4 for GLONASS frame
P05. Del TP1373
P07 R1675,R1678 to @
ADD C1772,C1773 for RF request
P09. update U823 symbol
P13. R535 to 27ohm(MTK advice)
P15. R1753,C1759 to @ (MTK advice)
P17. ADD TP1364,TP1365 for RF request
update 3G schematic
delete C643,C656,TP601,TP602

2013/3/14
P05. ADD TP1366,TP1369
P21. C1887,C1902-->SE00000WN00
C1888,C1889,C1891,C1893-->SE00000UC00
C1890-->SE00000V600
update 3G schematic
Add C1903 for U708.

2013/3/18
L838,L839,L840,L841,L842,L853
change to SM070001R00

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