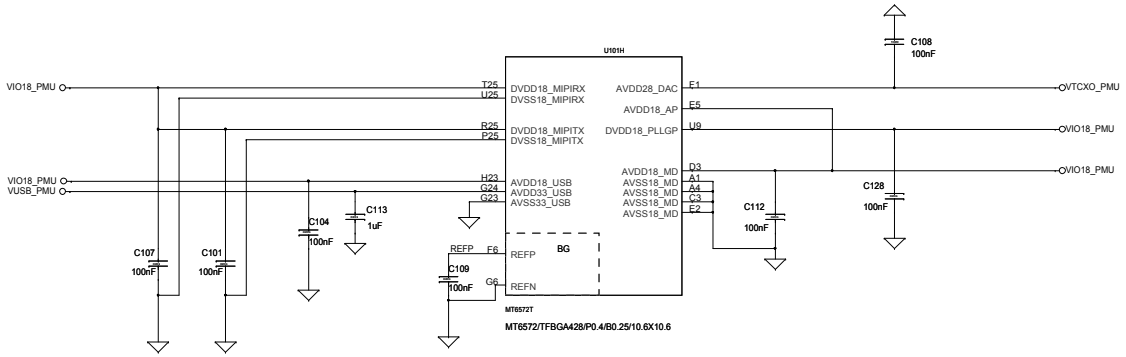

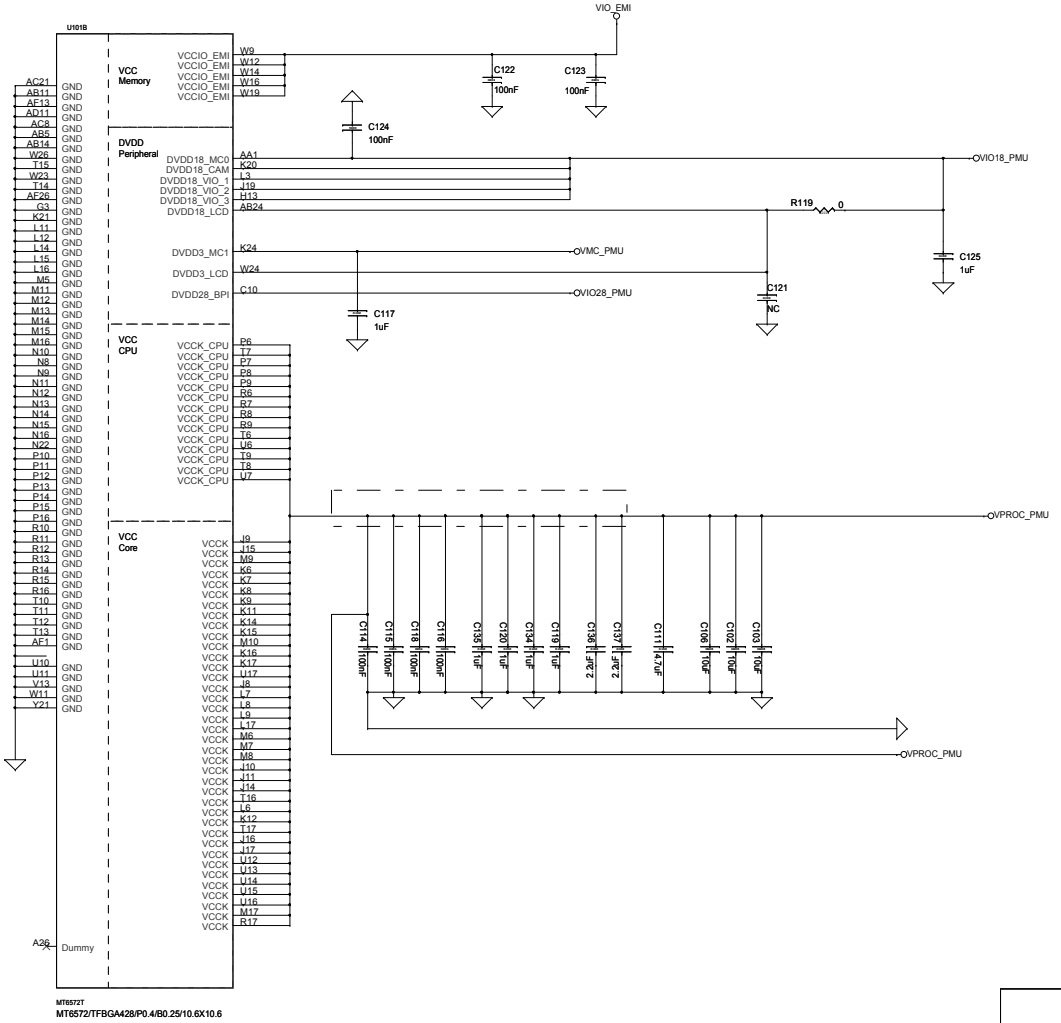

MEDIATEK

Title: **BB- Power**

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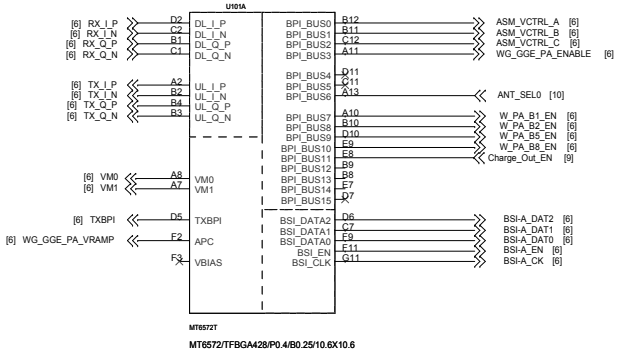
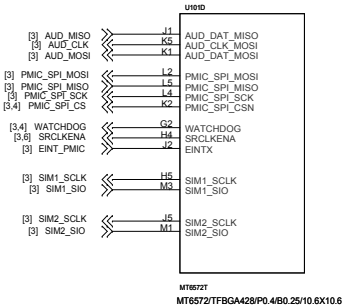


MT6572/TFBGA428/P0.4/B0.25/10.6X10.6



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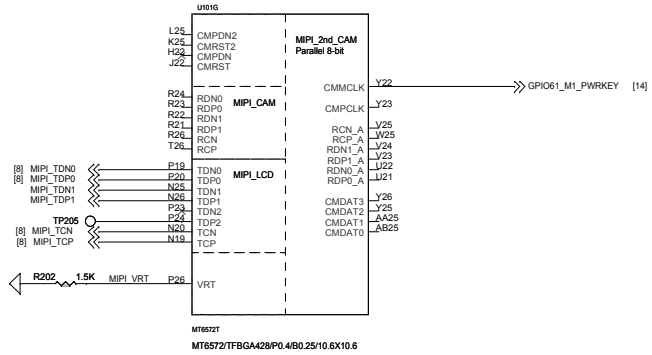

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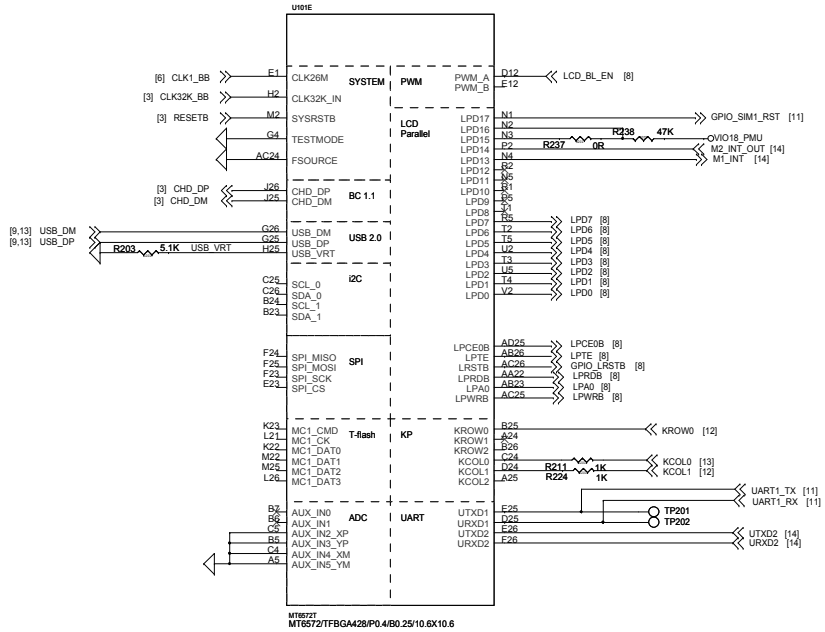


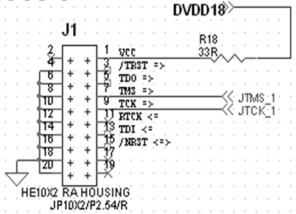
MT6572/TFBGA428/P0.4/B0.25/10.6X10.6

reserve for JTAG debug

I2C上拉电路

I2C1： CTP, Sensor共用

JTAG1



MEDIATEK

Title	BB - peripheral	
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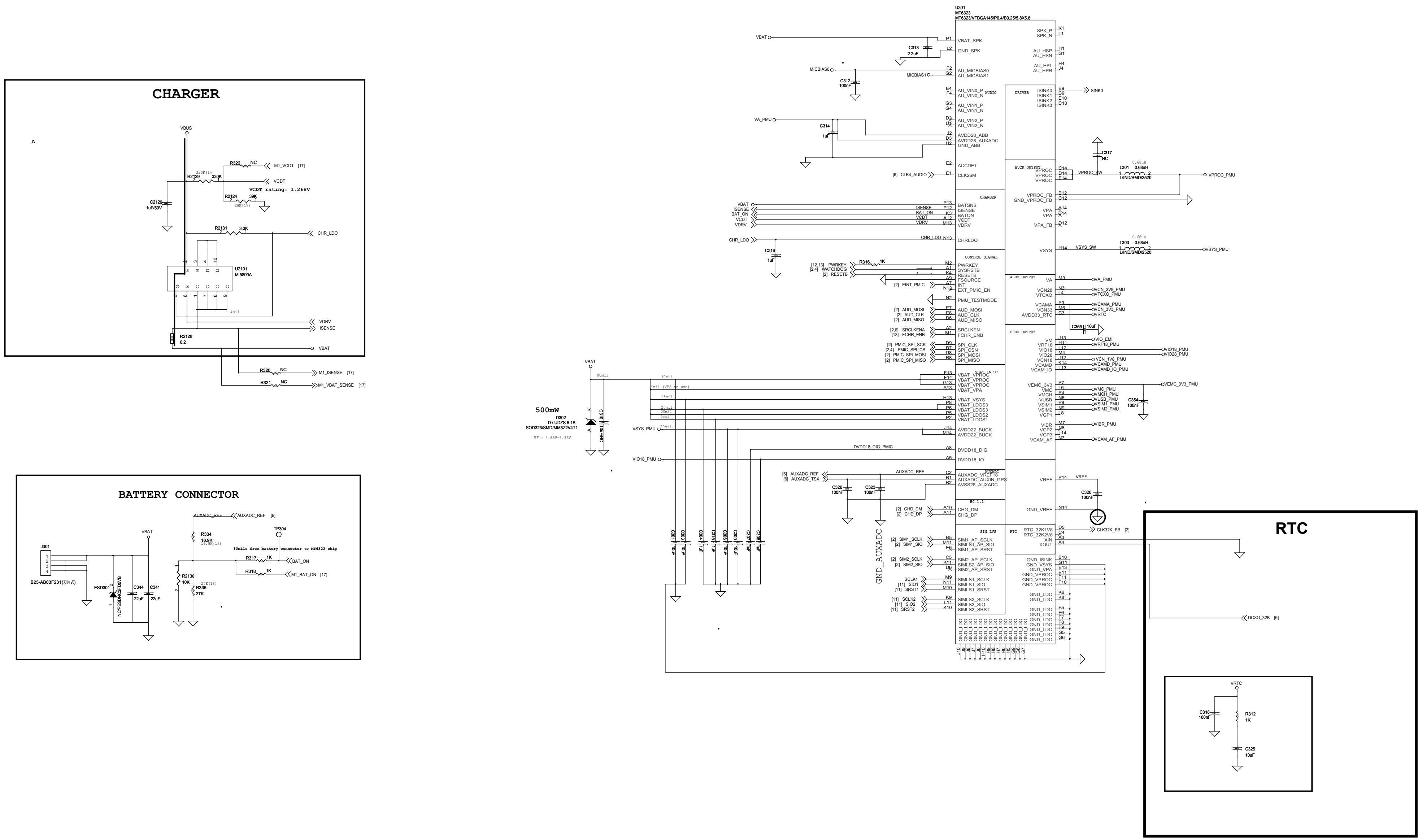

MEDIATEK

Title	PMIC	
Size D	Document Number P612	Rev V1.0
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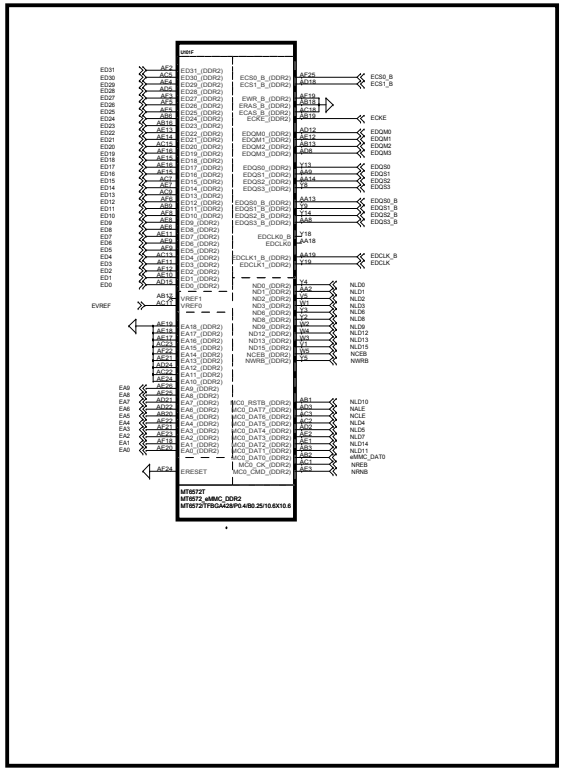
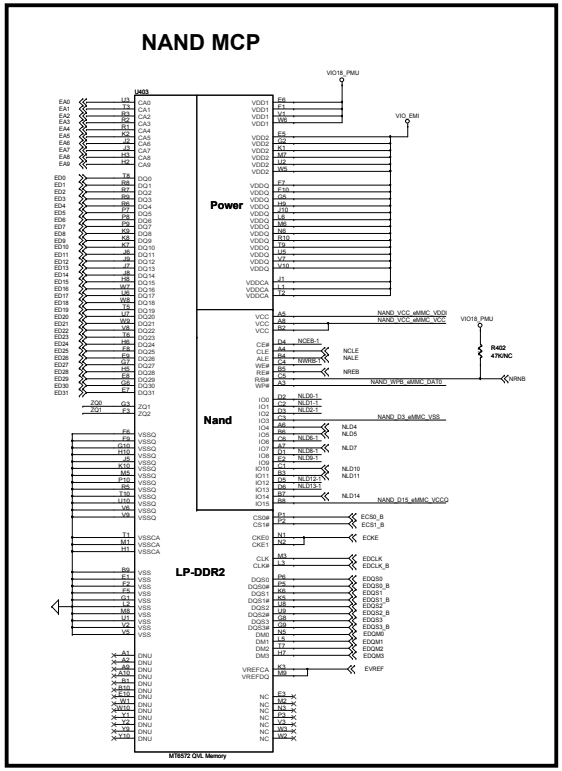
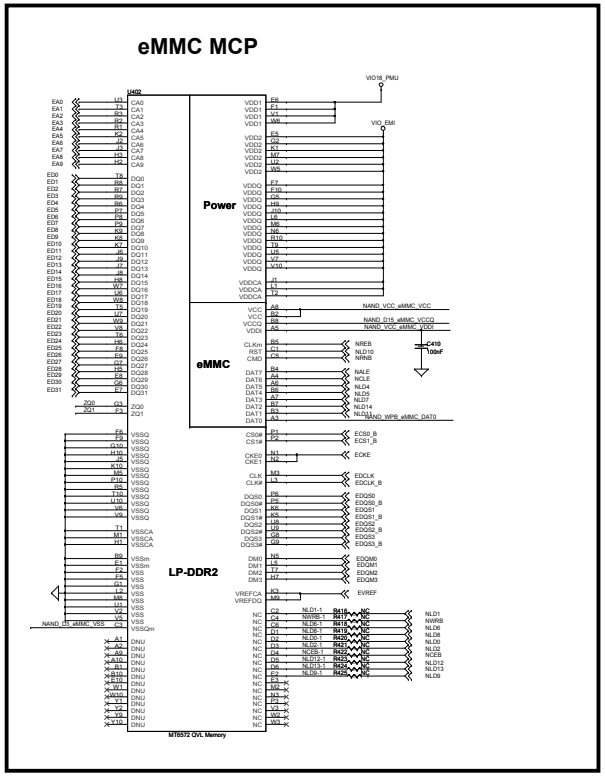
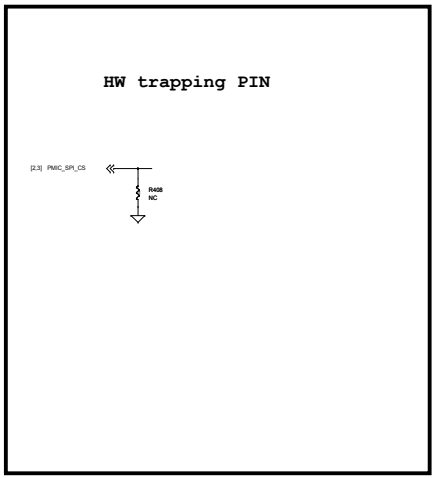
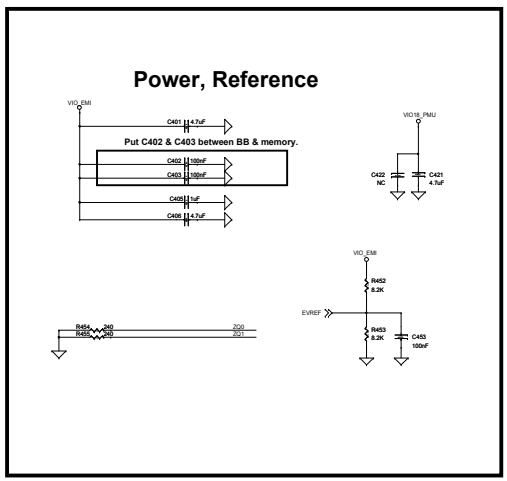


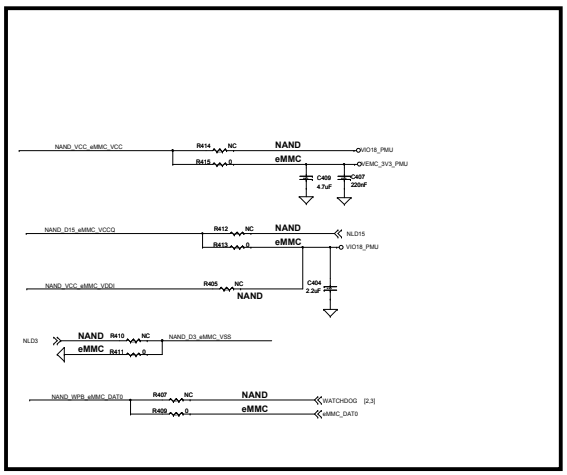




162 Ball, 0.5mm pitch







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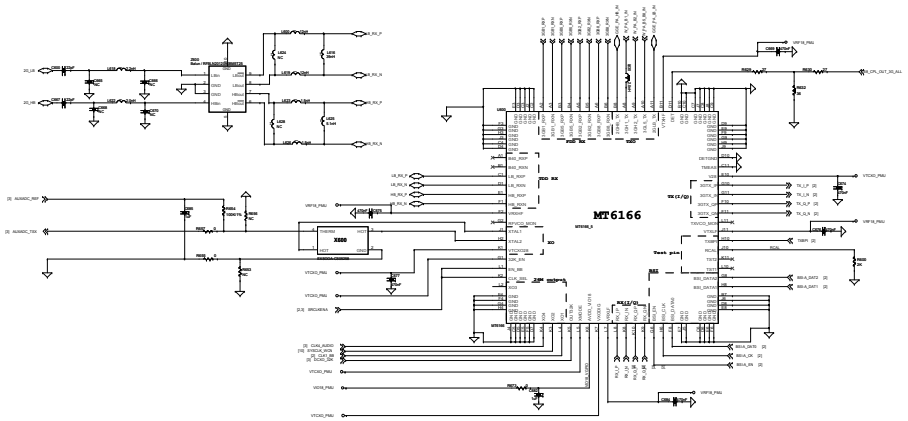
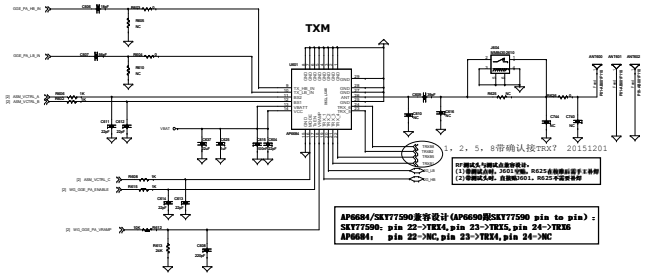
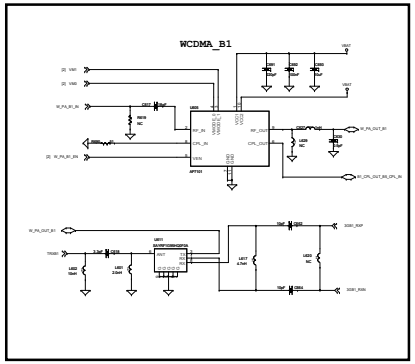
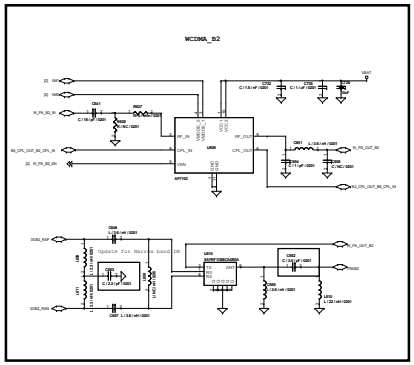


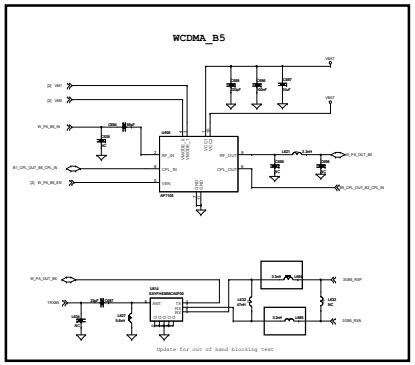


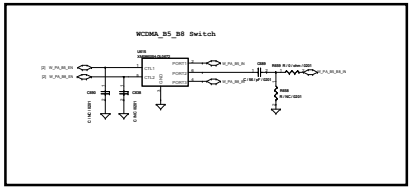
SKY77590 PA逻辑控制表

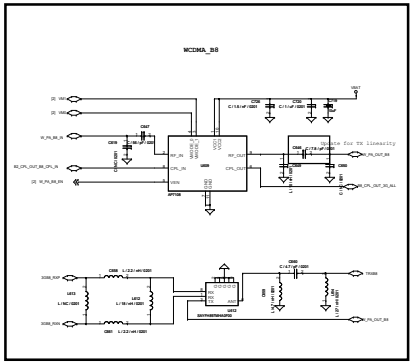
Enable	Vcc1	Vcc2	Vcc3
LB_GHDR_TX	H	L	H
MB/GHDR_TX	H	L	H
LB_EDGE_TX	H	H	L
MB/EDGE_TX	H	H	H
TX21	L	H	L
TX22	L	H	L
TX23	L	H	H
TX24	L	H	H
TX25	L	L	H
TX26	L	L	H
TDSCDMA	H	H	H









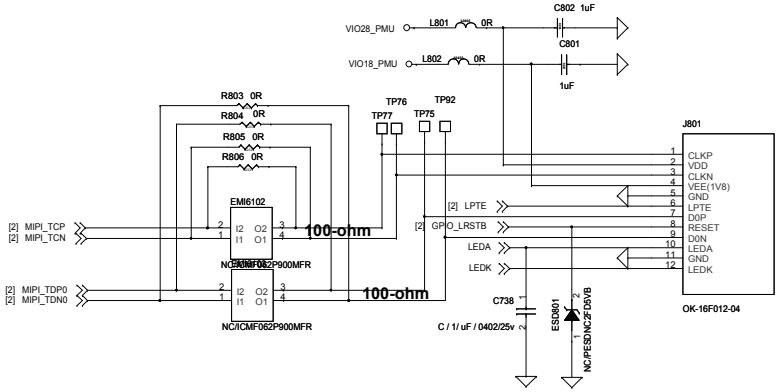


MEDIATEK

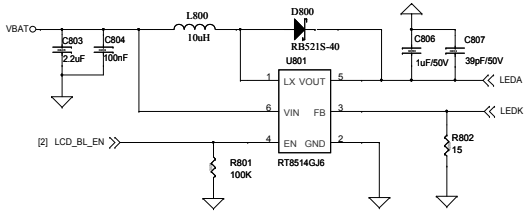
RF-2G&3G

P612

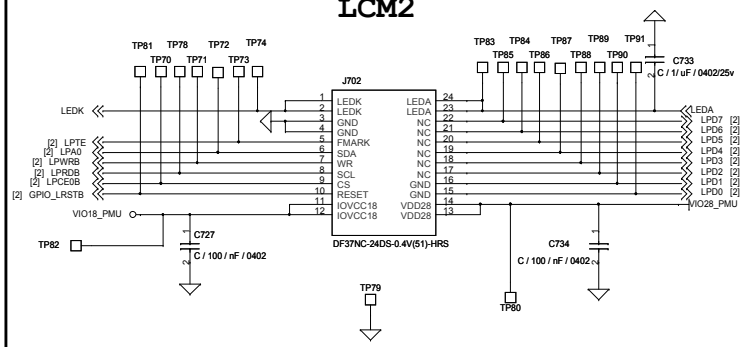
LCM1



BACKLIGHT LED DRIVER



LCM2



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Size: C	Document Number: P612	Rev: V1.0
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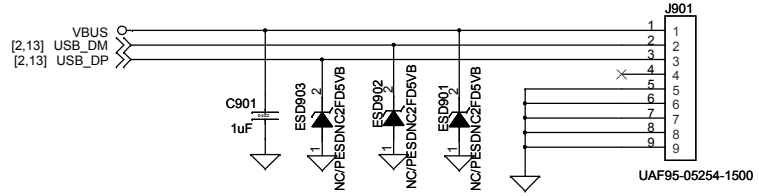
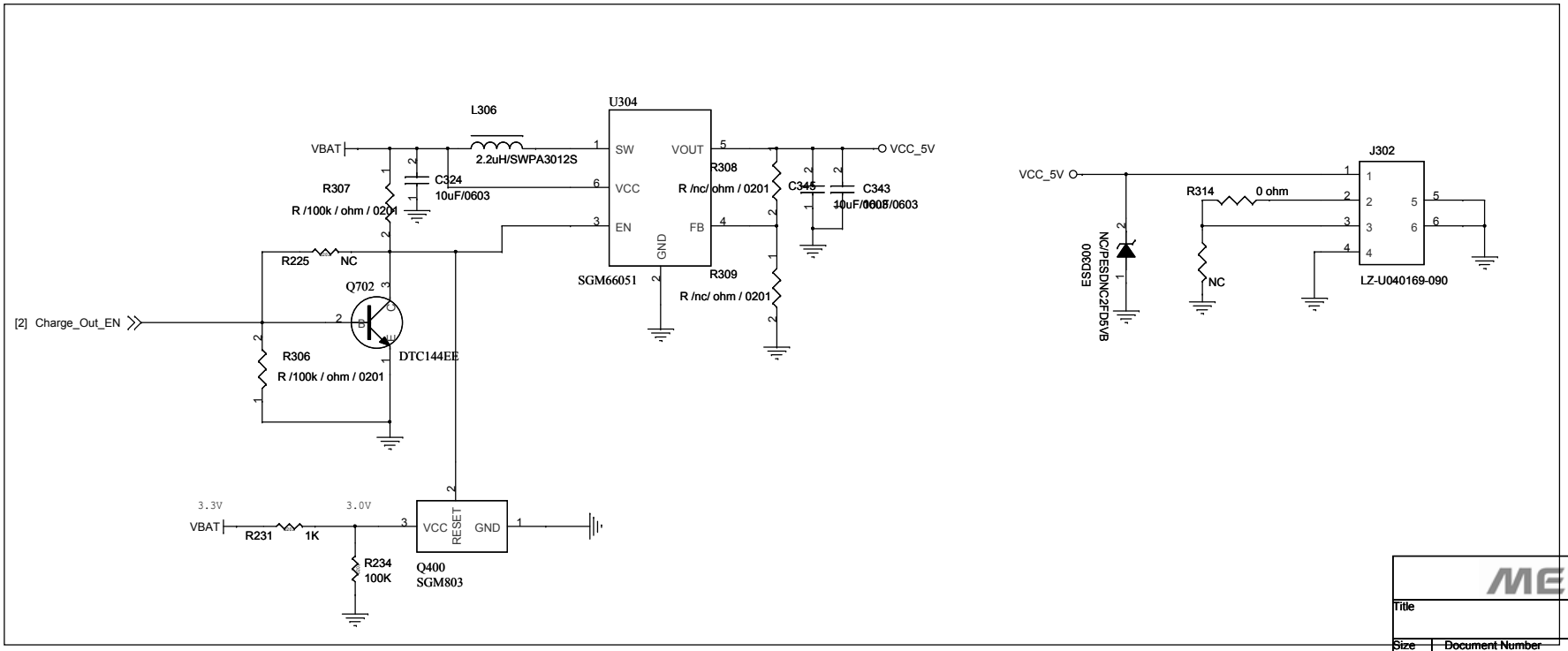
USB





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Size: B	Document Number: P612		Rev: V1.0
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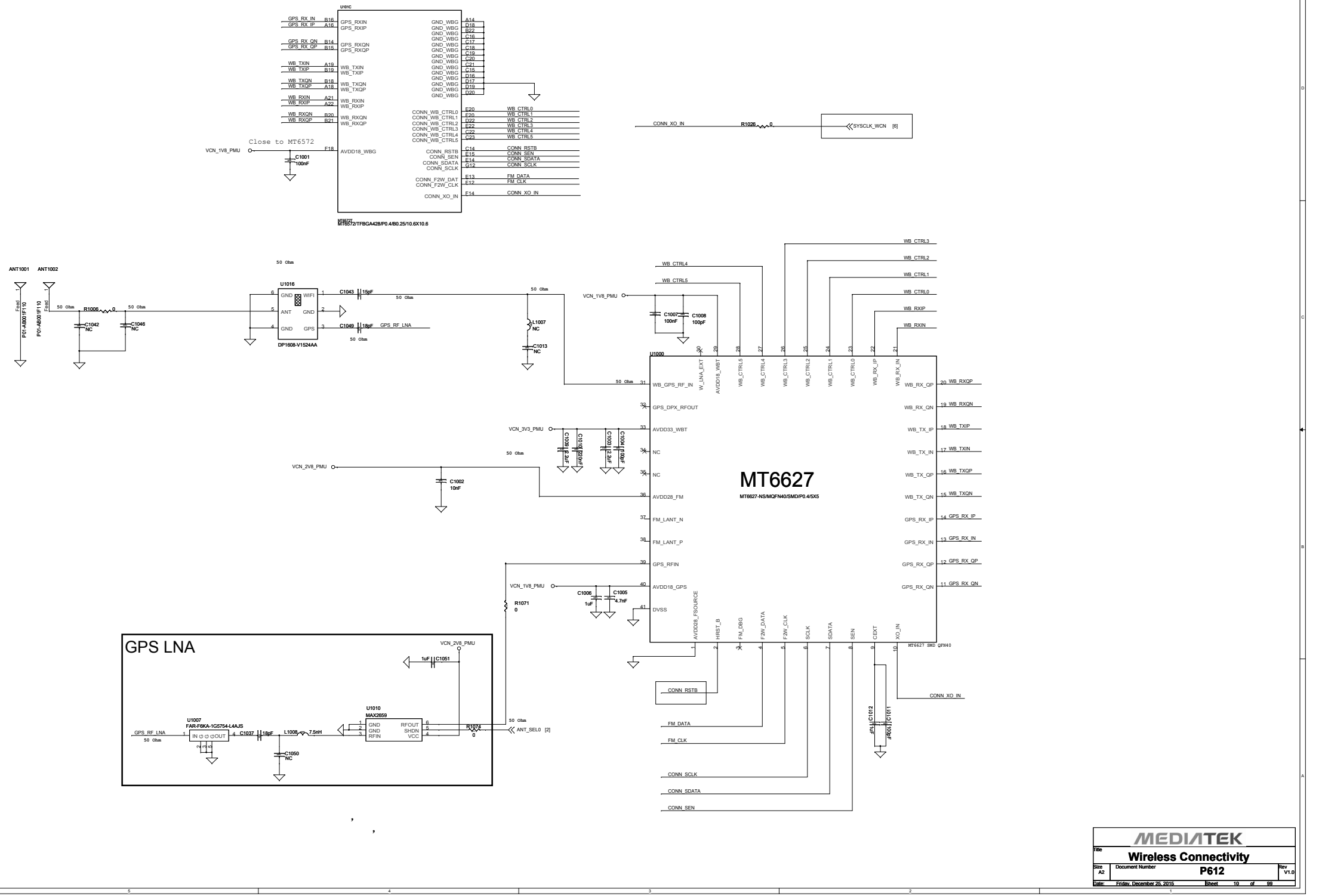
U101C
GPS_RX_IN B16
GPS_RX_IP A16
GPS_RXIN
GPS_RXIP
GPS_RX_QN B14
GPS_RX_QP B15
GPS_RXQN
GPS_RXQP
WB_TXIN A19
WB_TXIP B19
WB_TXQN B18
WB_TXQP A18
WB_RXIN A21
WB_RXIP A22
WB_RXQN B20
WB_RXQP B21
GND_WBG A14
D18
B22
C16
C17
C18
C19
C20
C21
C15
D16
D17
D19
D20
CONN_WB_CTRL0 E20
CONN_WB_CTRL1 E20
CONN_WB_CTRL2 D22
CONN_WB_CTRL3 E22
CONN_WB_CTRL4 C22
CONN_WB_CTRL5 C23
WB_CTRL0
WB_CTRL1
WB_CTRL2
WB_CTRL3
WB_CTRL4
WB_CTRL5
Close to MT6572
VCN_1V8_PMU
C1001
100nF
F18
AVDD18_WBG
CONN_RSTB C14
CONN_SEN E15
CONN_SDATA E14
CONN_SCLK G12
CONN_F2W_DAT E13
CONN_F2W_CLK E12
CONN_XO_IN F14
CONN_RSTB
CONN_SEN
CONN_SDATA
CONN_SCLK
FM_DATA
FM_CLK
CONN_XO_IN
MT6572
MT6572/TFBGA428/P0.4/B0.25/10.6X10.6
CONN_XO_IN
R1026
0
SYSCLK_WCN [6]
ANT1001
ANT1002
Feed
P01-A900/F110
50 Ohm
R1006
0
C1042
NC
C1046
NC
U1016
GND
WIFI
ANT
GND
GND
GPS
C1043
15pF
C1049
18pF
GPS_RF_LNA
DP1608-V1524AA
L1007
NC
C1013
NC
WB_CTRL4
WB_CTRL5
VCN_1V8_PMU
C1007
100nF
C1008
100pF
WB_CTRL3
WB_CTRL2
WB_CTRL1
WB_CTRL0
WB_RXIP
WB_RXIN
U1000
W_LNA_EXT
AVDD18_WBT
WB_CTRL5
WB_CTRL4
WB_CTRL3
WB_CTRL2
WB_CTRL1
WB_CTRL0
WB_RX_IP
WB_RX_IN
WB_GPS_RF_IN
GPS_DPX_RFOUT
AVDD33_WBT
NC
NC
AVDD28_FM
FM_LANT_N
FM_LANT_P
GPS_RFIN
AVDD18_GPS
DVSS
WB_RX_QP
WB_RX_QN
WB_TX_IP
WB_TX_IN
WB_TX_QP
WB_TX_QN
GPS_RX_IP
GPS_RX_IN
GPS_RX_QP
GPS_RX_QN
VCN_3V3_PMU
C1010
2.2nF
C1009
22pF
C1004
100pF
C1003
2.2nF
VCN_2V8_PMU
C1002
10nF
VCN_1V8_PMU
C1006
1uF
C1005
4.7nF
R1071
0
MT6627
MT6627-NS/MQFN40/SMD/P0.4/5X5
AVDD28_FSOURCE
HRST_B
FM_DBG
F2W_DATA
F2W_CLK
SCLK
SDATA
SEN
CEXT
XO_IN
MT6627 SMD QFN40
CONN_RSTB
FM_DATA
FM_CLK
CONN_SCLK
CONN_SDATA
CONN_SEN
C1012
1uF
C1011
100pF
CONN_XO_IN
GPS LNA
VCN_2V8_PMU
1uF
C1051
U1007
FAR-F6KA-1G5754-L4AJS
GPS_RF_LNA
IN
OUT
C1037
18pF
L1008
7.5nH
C1050
NC
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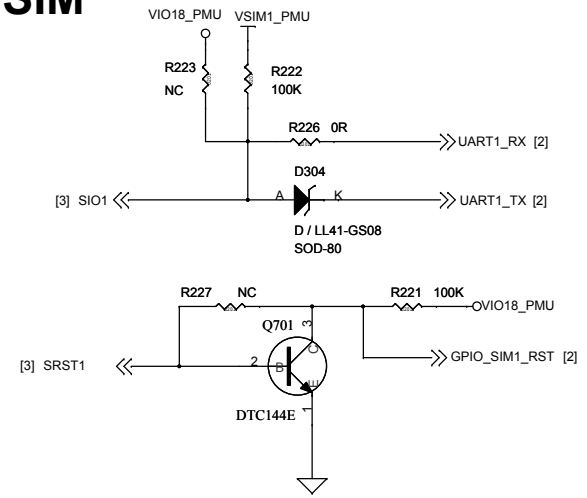
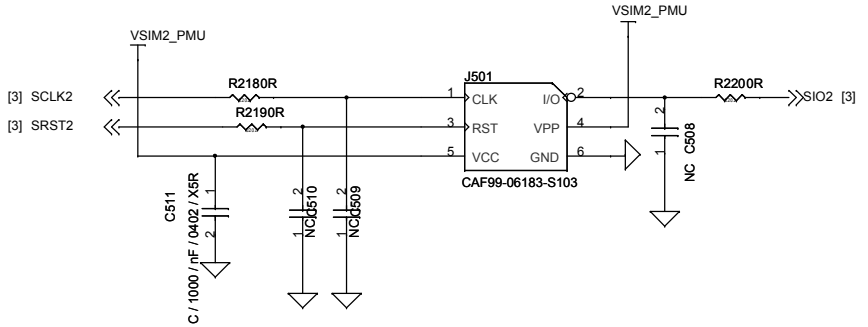
MAX2659
GND
GND
RFIN
RFOUT
SHDN
VCC
R1074
0
ANT_SEL0 [2]

Virtual SIM



SIM2



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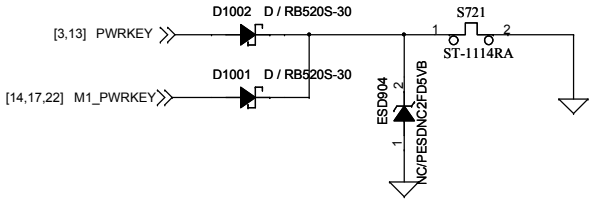
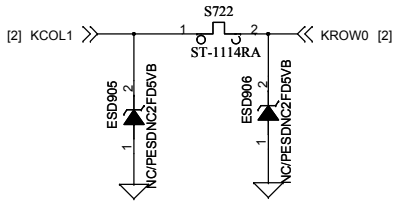
Power key





MEDIATEK

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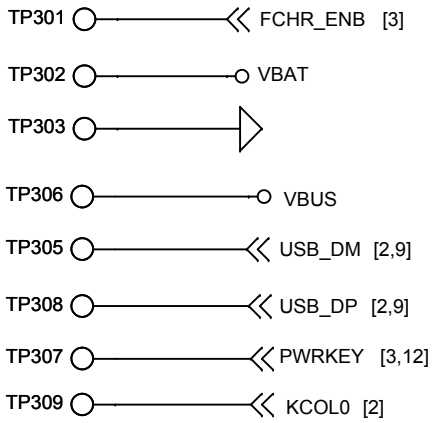
测试点



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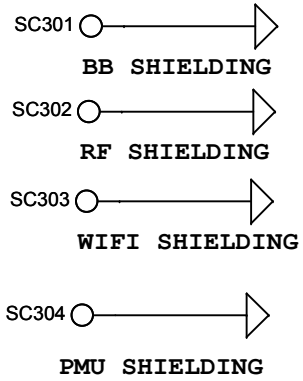

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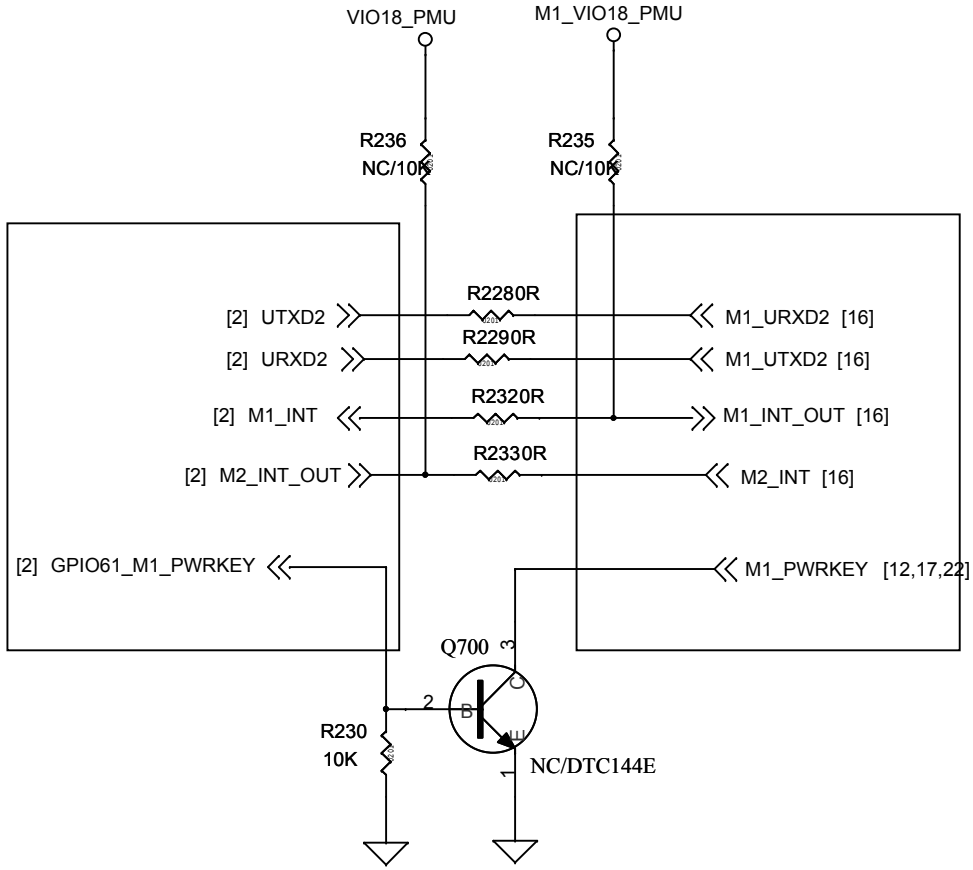

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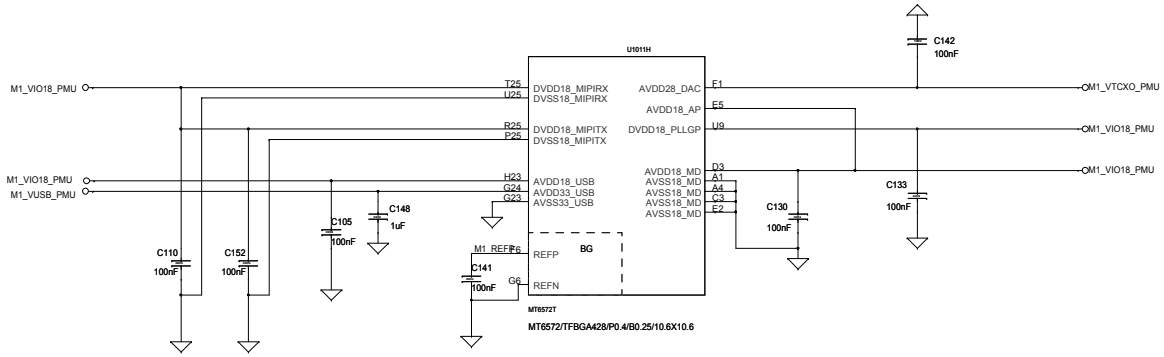

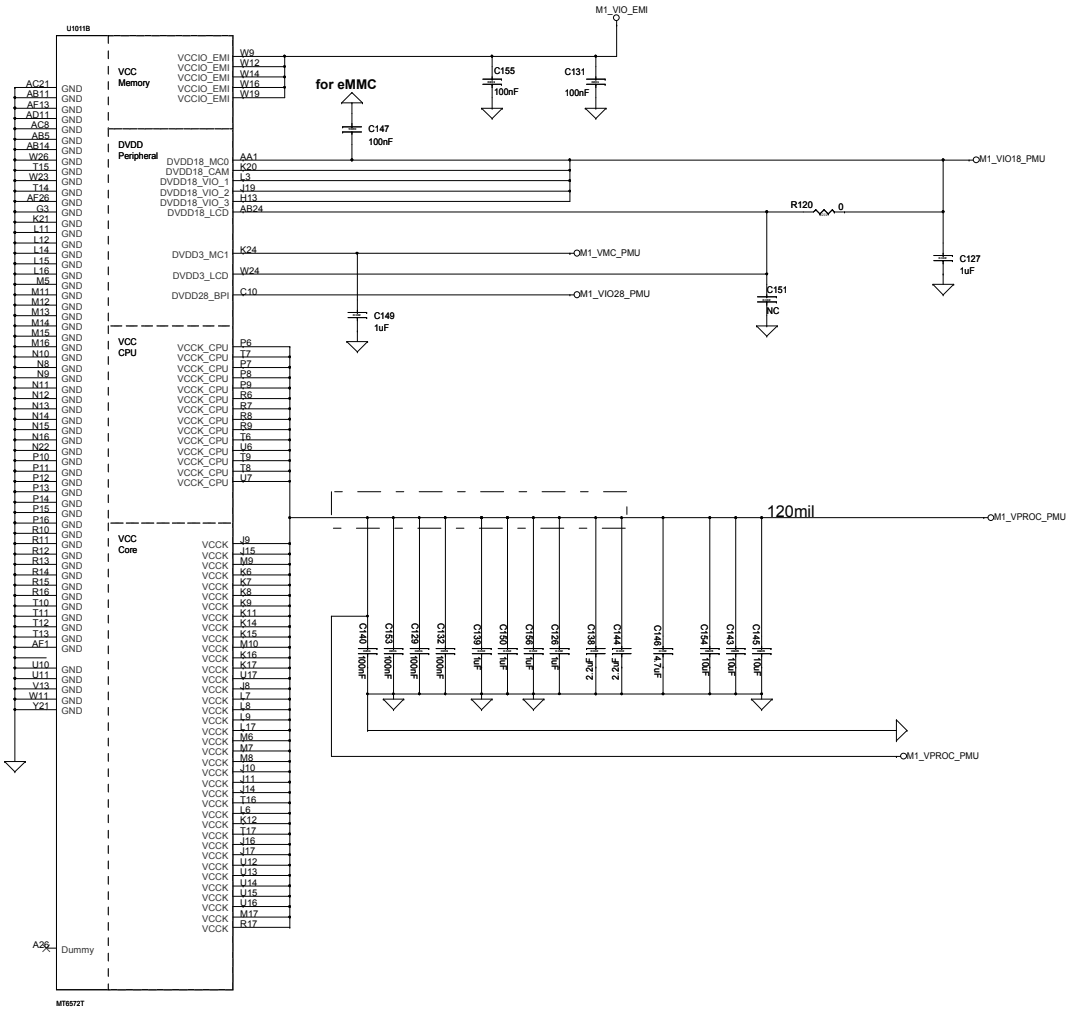

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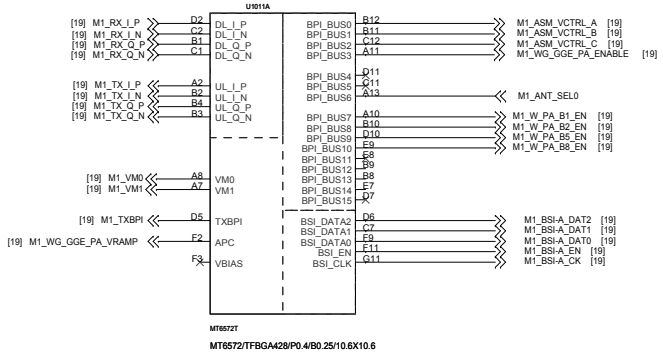
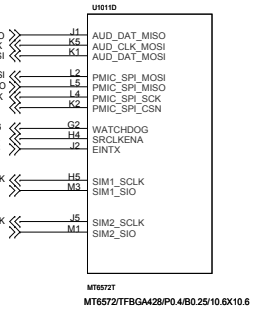


MT6572/TFBGA428/P0.4/B0.25/10.6X10.6



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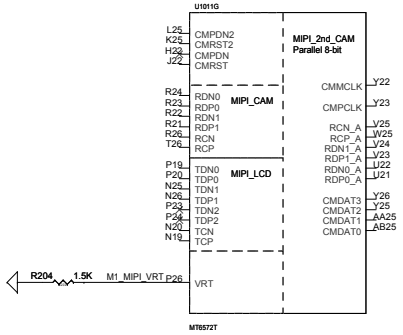

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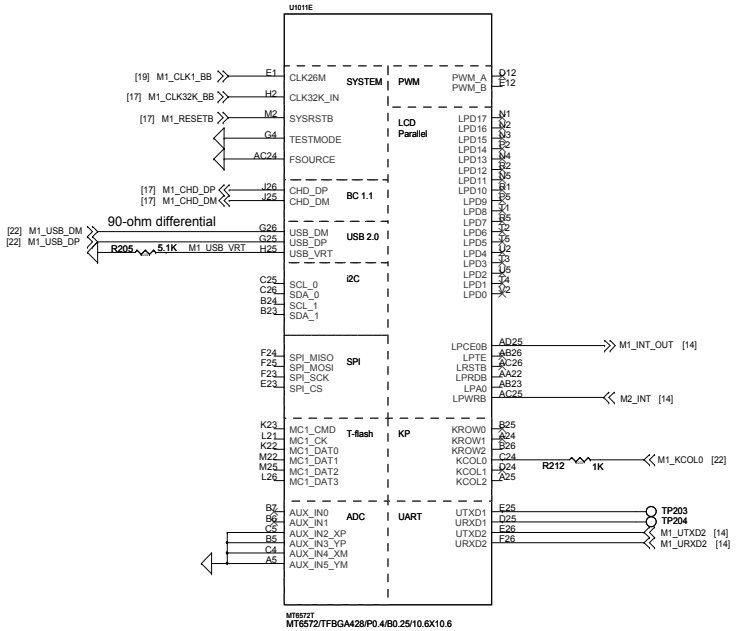

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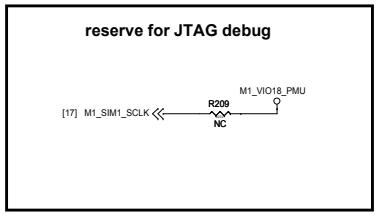

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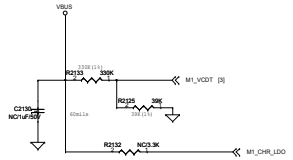
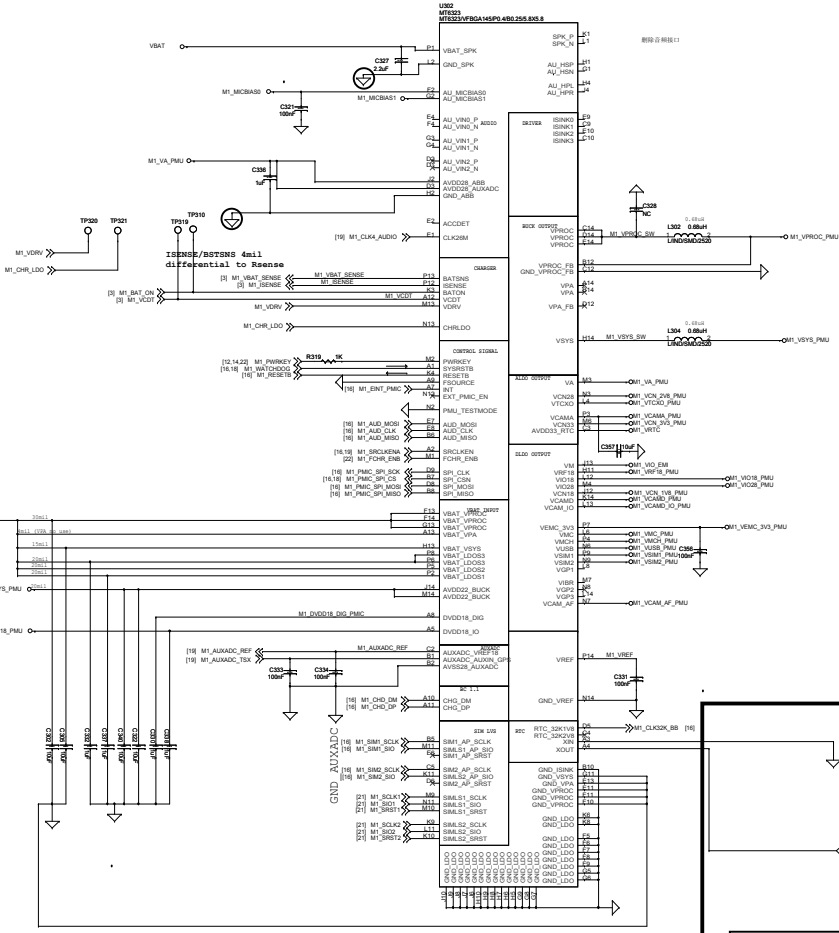
CHARGER





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DC/DC	VCORE	0.7~1.4 (DCDC+DVS)	2800	V	1. Always On
	VSYS	1.8/3/2.2	1400	V	1. Always on
	VPA	0.5~3.4V	600		Register (default) SRCLKEN
VSYS LDO	VM	1.2/1.35/1.5/1.8	300 (1.8V) 700 (1.2V)	V	1. Always on
	VRF18	1.825	200		1. Register (default) 2. SRCLKEN
	VIO18	1.8	300	V	1. Always on
	VCN_1V8	1.8	120		1. Register (default) 2. SRCLKEN
	VCAMD	1.2/1.3/1.5/1.8	150		Register
	VCAM_IO	1.8	100		Register
	VGP3	1.2/1.3/1.5/1.8	200		Register
Analog LDO	VA	2.8	150	V	1. Always On 2. Enable
	VTCXO	2.8	40	V	1. Register (default) 2. SRCLKEN
	VCN28	2.8	30		1. Register (default) 2. SRCLKEN
	VCAMA	1.5/1.8/2.5/2.8	150		Register
Digital LDO	VCN33	3.3/3.4/3.5/3.6	240		1. Register (default) 2. SRCLKEN
	VIO28	2.8	200	V	1. Always On 2. Enable
	VUSB	3.3	20	V	Always On
	VMC	1.8/3.3	100	V	1. Register (default) 2. SRCLKEN
	VMCH	3.0/3.3	400 (support SD 3.0)	V	1. Register (default) 2. SRCLKEN
	VEMC_3V3	3.0/3.3	400	V	1. Register (default) 2. SRCLKEN
	VCAM_AF	1.2/1.3/1.5/1.8/2.0 2.8/3.0/3.3	100		Register
	VSIM1	1.8/3.0	50		Register
	VSIM2	1.8/3.0	50		Register
	VGP1	1.2/1.3/1.5/1.8/2.0 2.8/3.0/3.3	100		Register
	VGP2	1.2/1.3/1.5/1.8/2.0 /2.5/2.8/3.0	100		Register
	VIBR	1.2/1.3/1.5/1.8/2.0 2.8/3.0/3.3	100		Register
	VDIG18	1.8	20	V	Register
VRTC	VRTC	2.8	2	V	Always On

RTC

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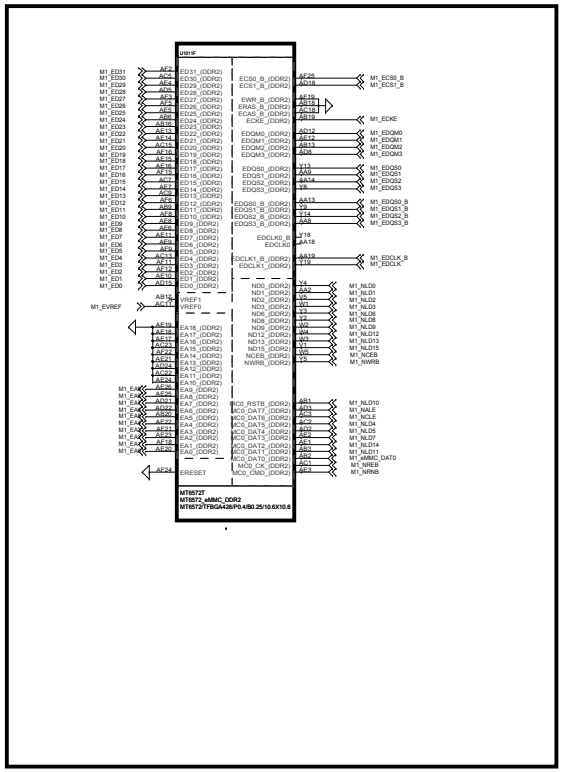

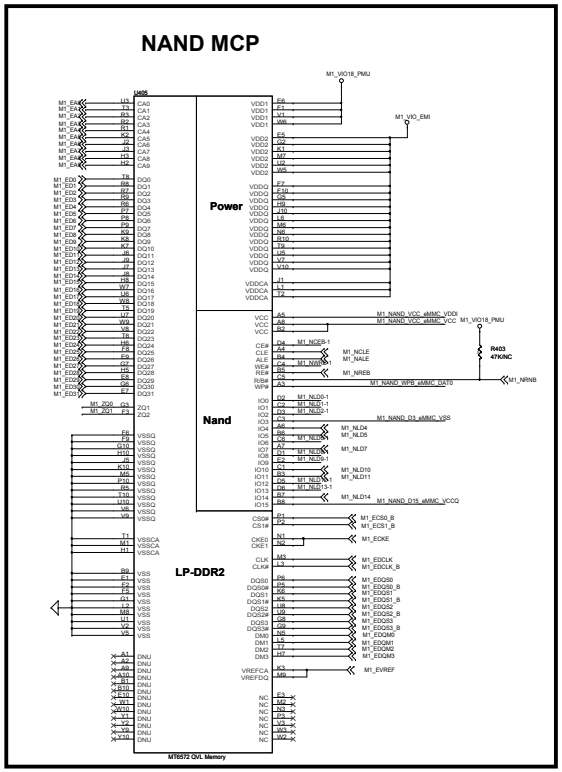

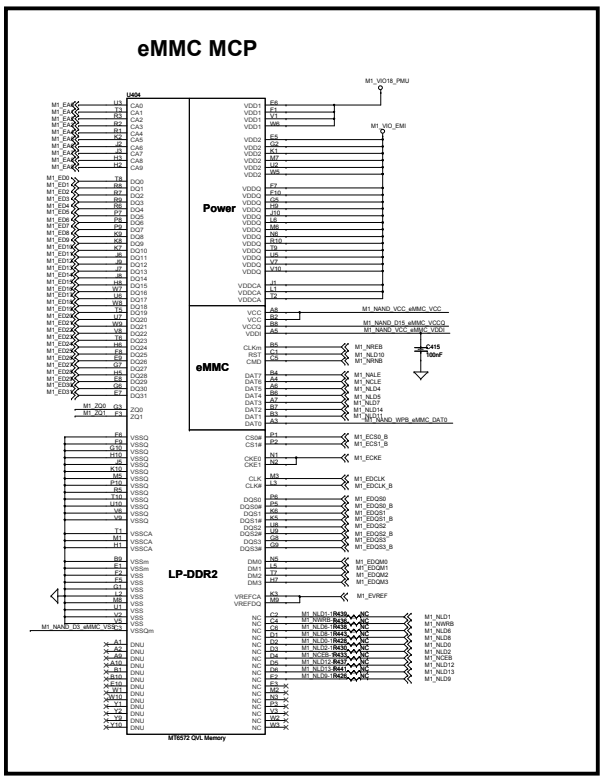

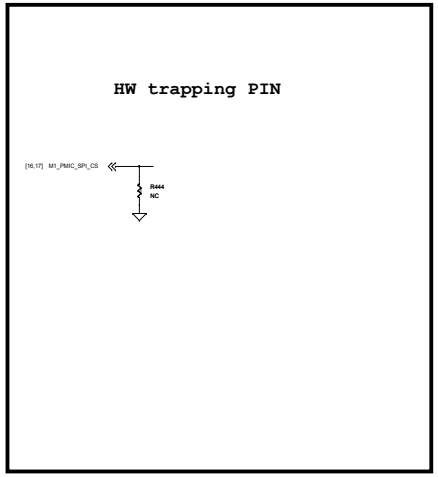

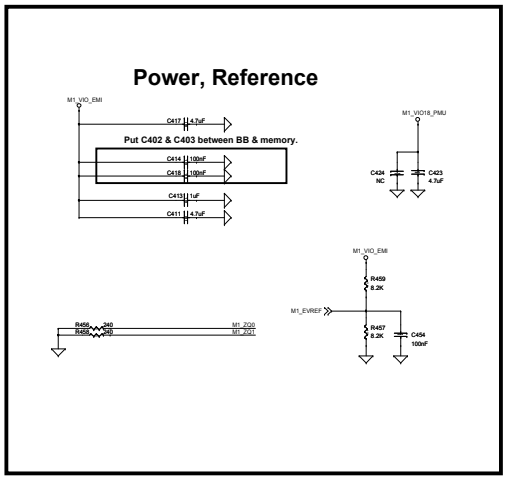

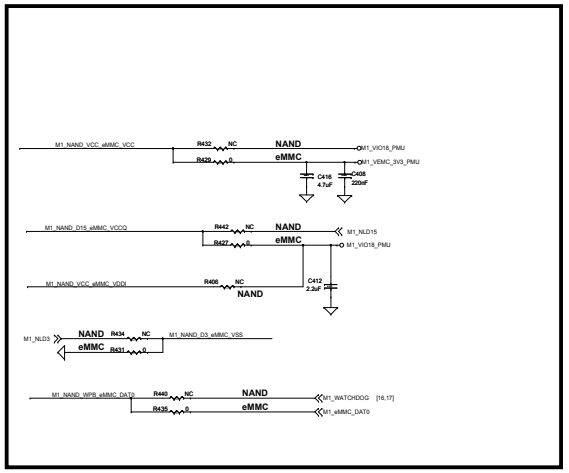

162 Ball, 0.5mm pitch

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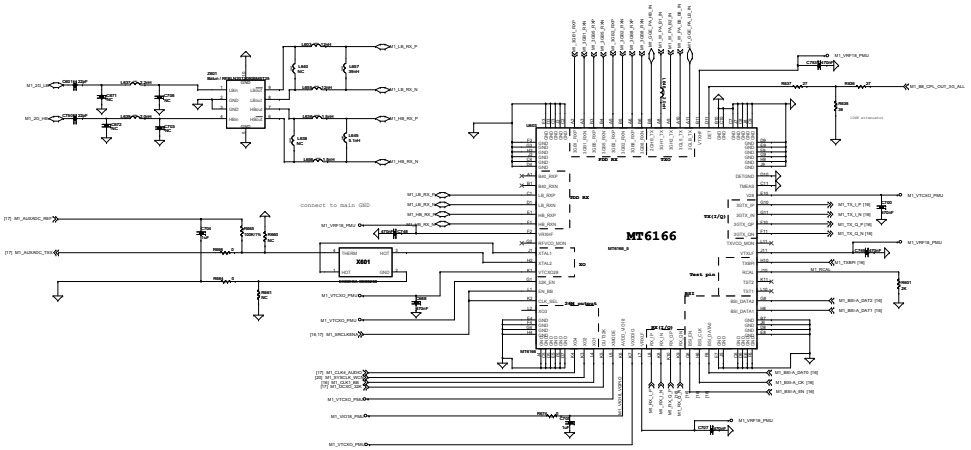
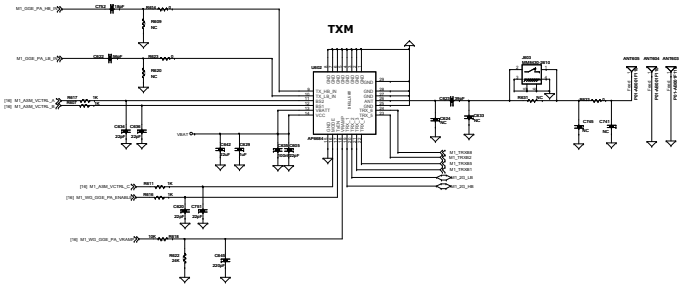

MT6166
connect to main GND
Test pin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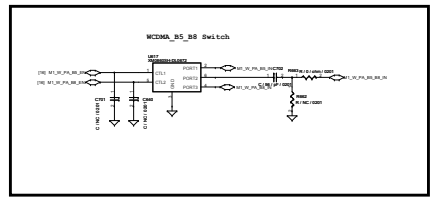
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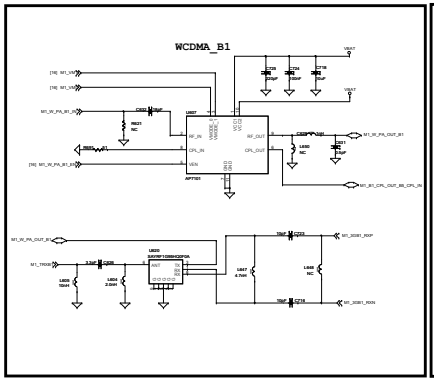
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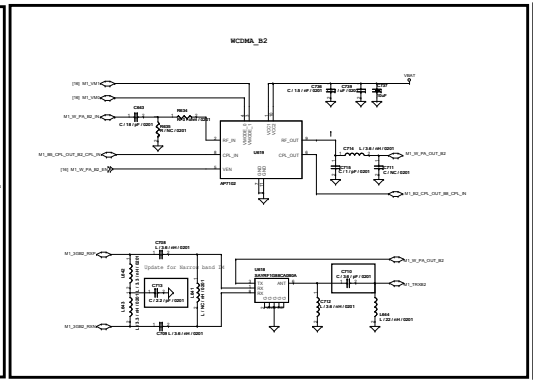
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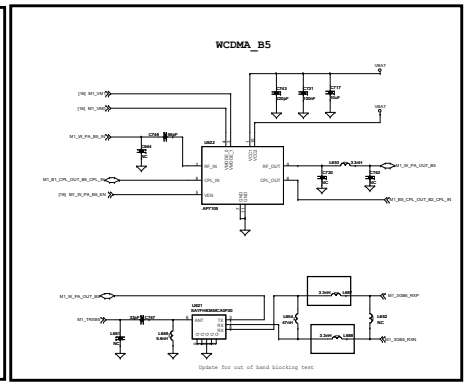
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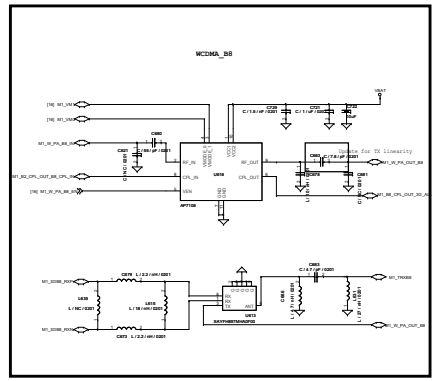
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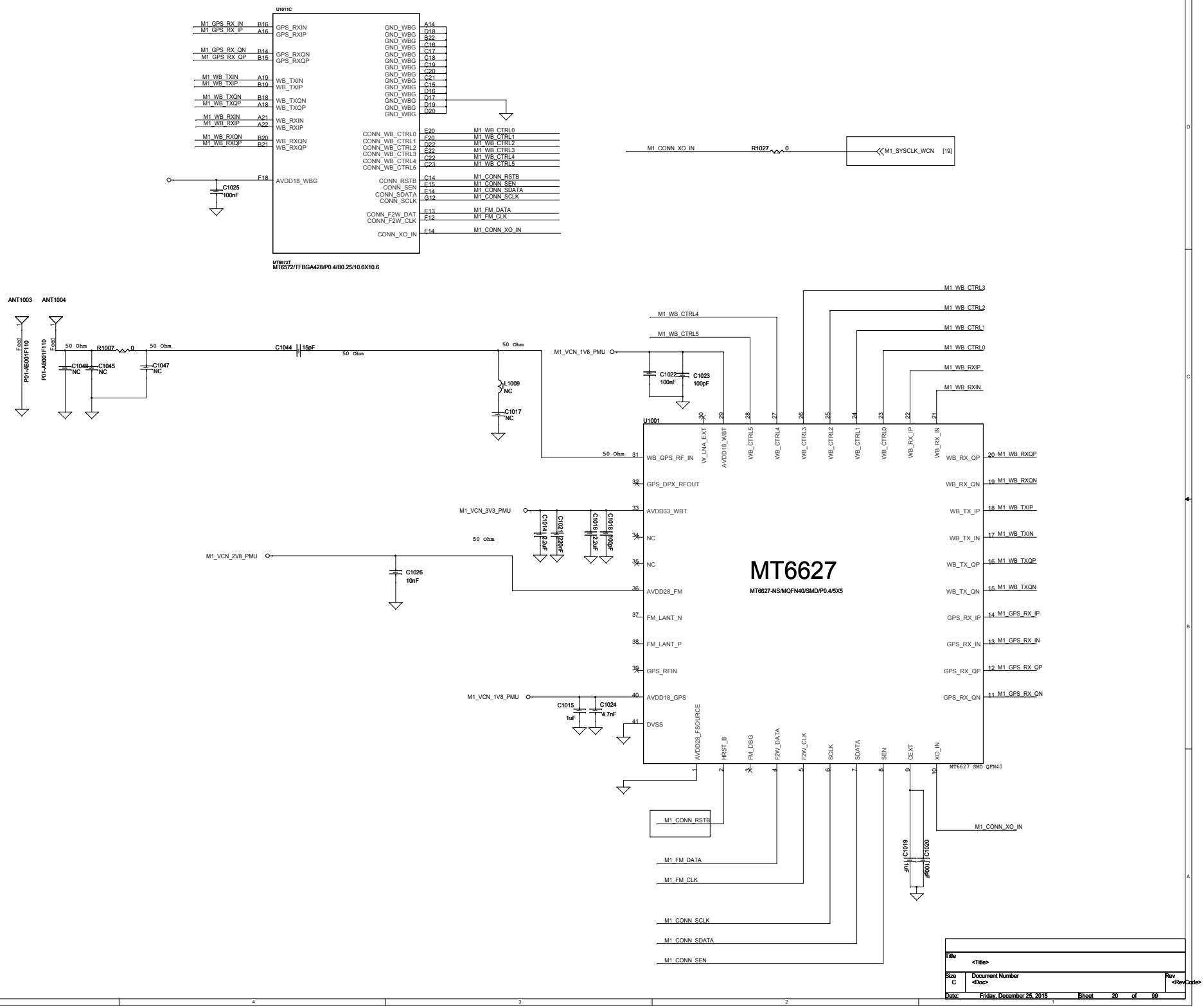

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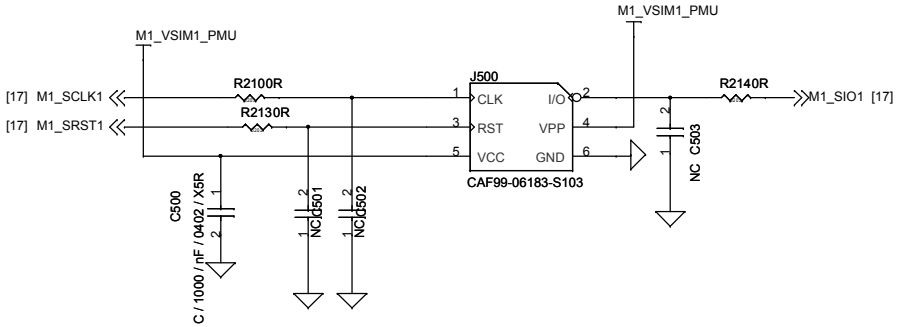
SIM1



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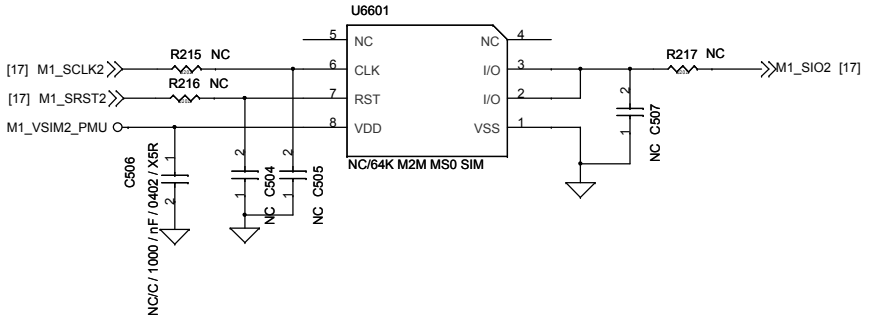

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测试点

TP313 — M1_FCHR_ENB [17]

TP314 — VBAT

TP312

TP316 — VBUS

TP315 — M1_USB_DM [16]

TP318 — M1_USB_DP [16]

TP317 — M1_PWRKEY [12,14,17]

TP311 — M1_KCOL0 [16]

屏蔽罩

SC306 — BB SHIELDING

SC305 — RF SHIELDING

SC307 — WIFI SHIELDING

SC308 — PMU SHIELDING

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