CONTENTS:

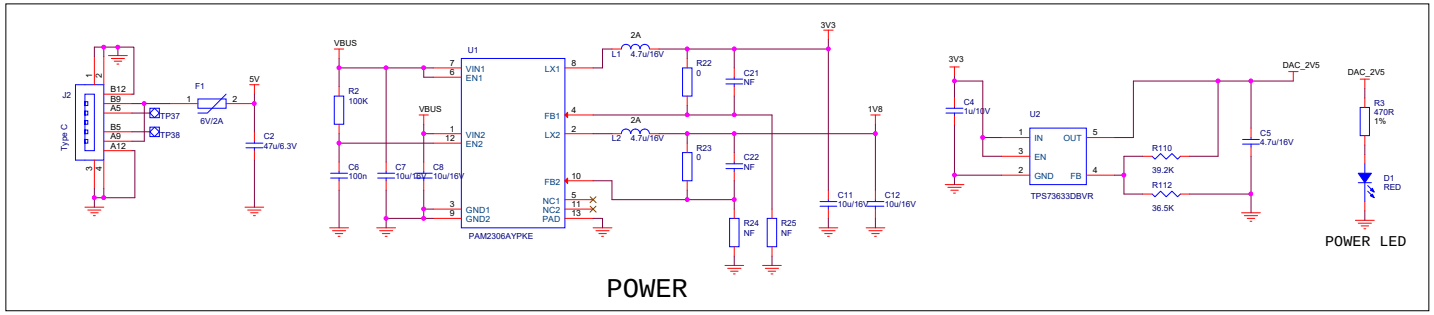
PAGE1 - CONTENTS

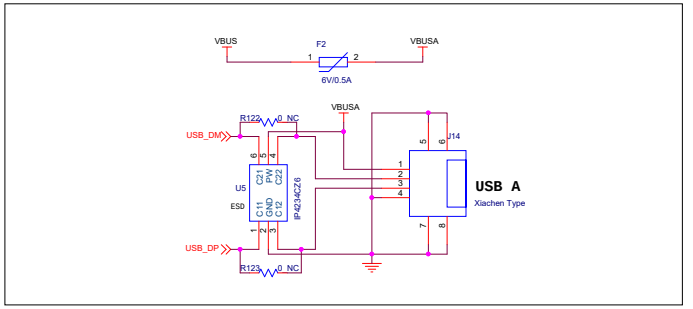
PAGE2 - POWER, PI MODULE, GPIO, USB

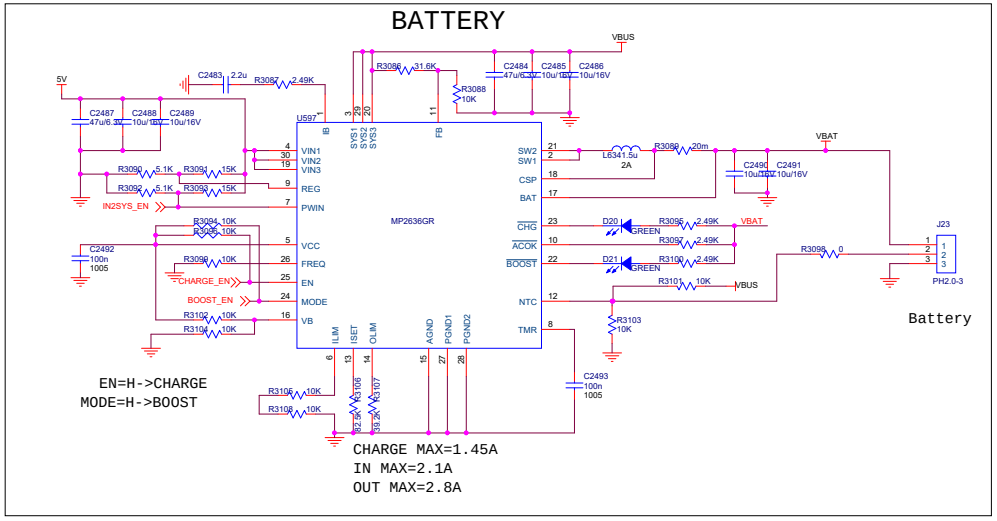
PAGE3 - CSI, DSI, HDMI,BT&WIFI

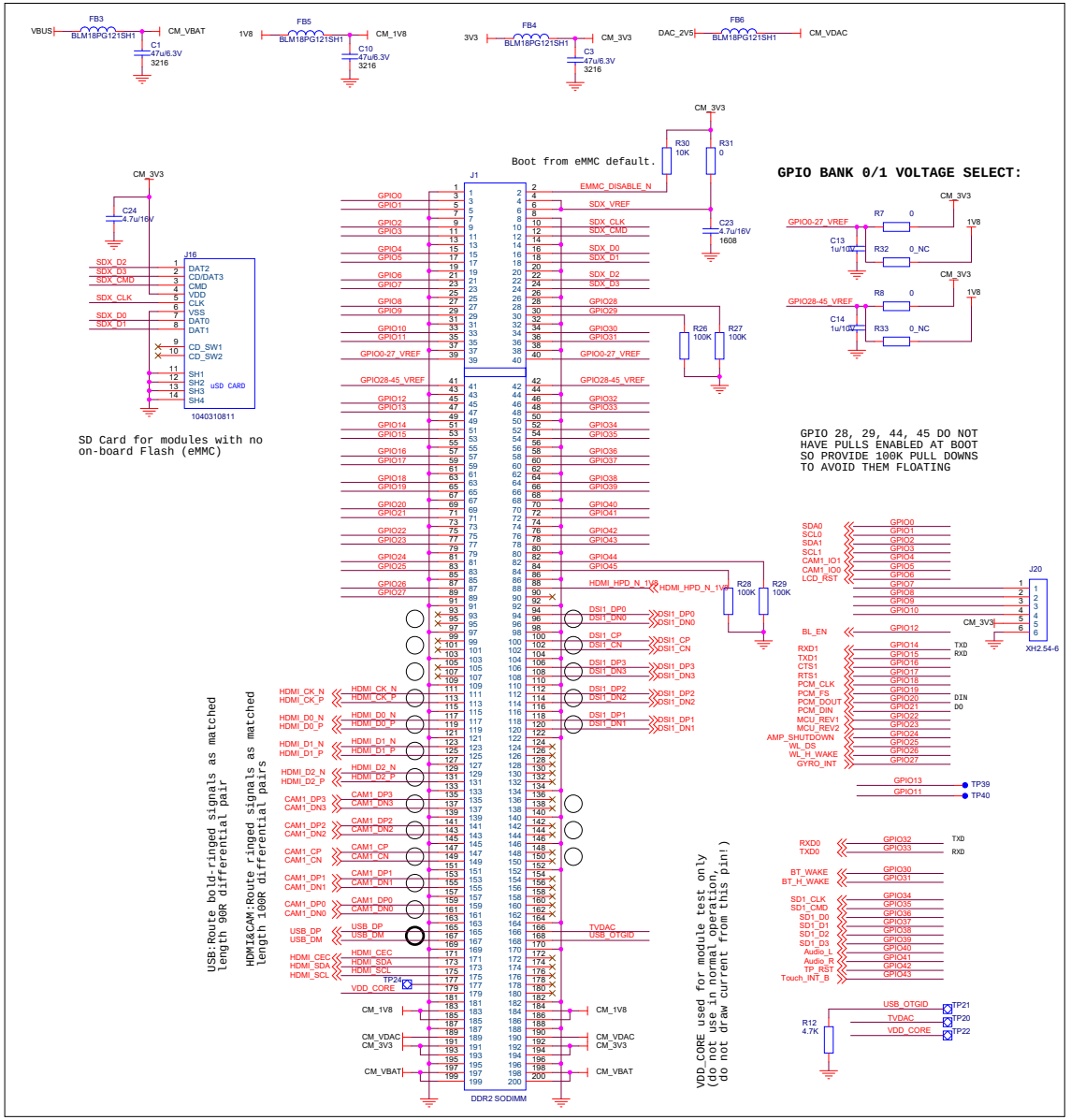
REVISION HISTORY:

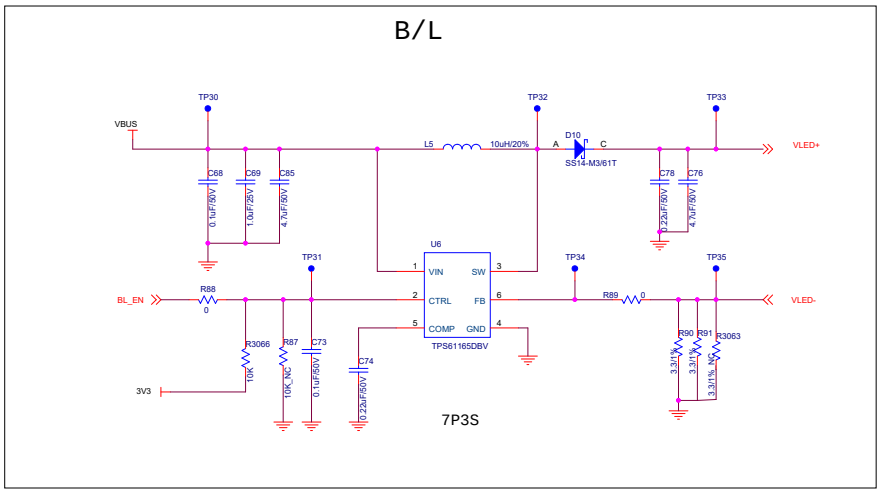
11/30/2018 - V1.0 - Initial Version
7/10/2018 - V2.0 - Change BT/WIFI module and optimize the fist version .

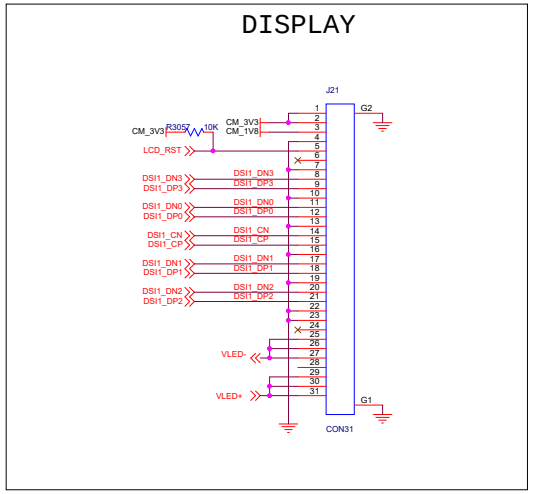

POWER
PAM2306AYPKE
TPS73633DBVR
POWER LED

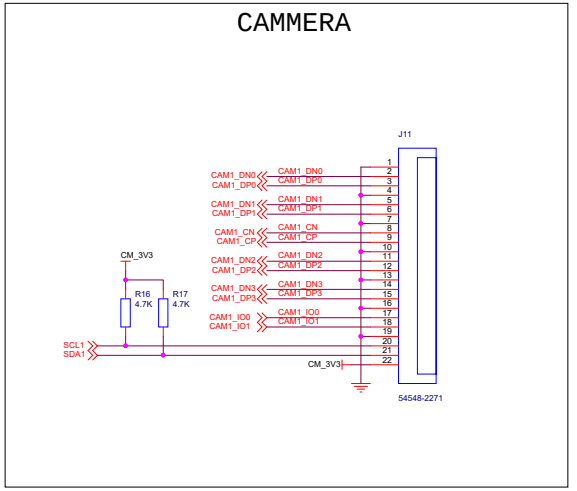

USB A
Xiachen Type

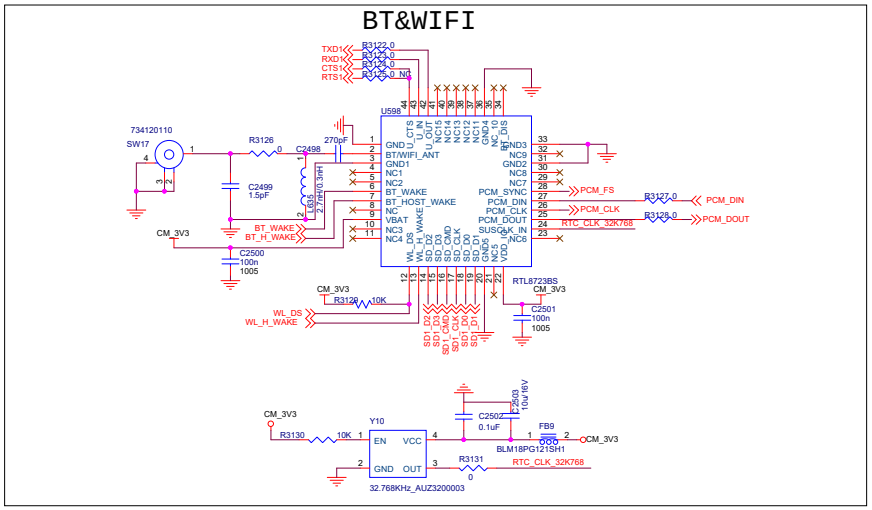

BATTERY
MP2636GR
EN=H->CHARGE
MODE=H->BOOST
CHARGE MAX=1.45A
IN MAX=2.1A
OUT MAX=2.8A
Battery

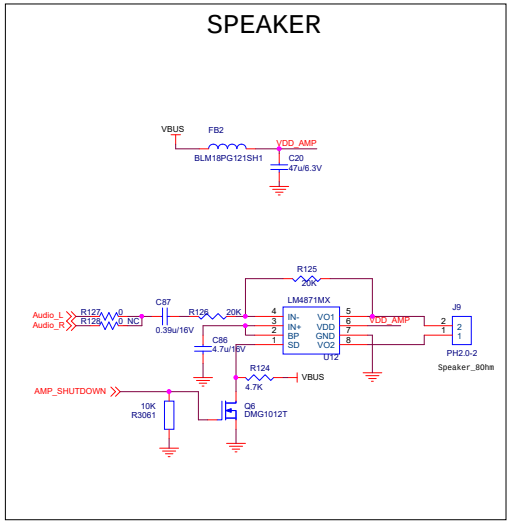

Boot from eMMC default.
GPIO BANK 0/1 VOLTAGE SELECT:
SD Card for modules with no on-board Flash (eMMC)
GPIO 28, 29, 44, 45 DO NOT HAVE PULLS ENABLED AT BOOT SO PROVIDE 100K PULL DOWNS TO AVOID THEM FLOATING
USB:Route bold-ringed signals as matched length 90R differential pair
HDMI&CAM:Route ringed signals as matched length 100R differential pairs
VDD_CORE used for module test only (do not use in normal operation, do not draw current from this pin!)
DDR2 SODIMM

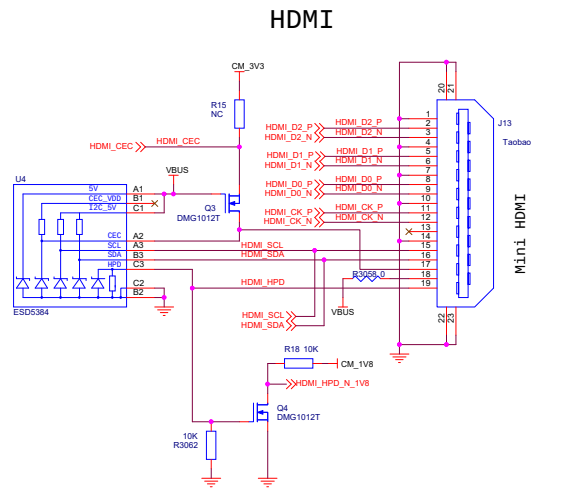

B/L
TP30
TP32
TP33
VBUS
L5
10uH/20%
D10
SS14-M3/61T
VLED+
TP31
TP34
TP35
U6
VIN
SW
CTRL
FB
COMP
GND
TPS61165DBV
BL_EN
R88
R89
VLED-
R3066
R87
C73
C74
R90
R91
R3063
3V3
7P3S

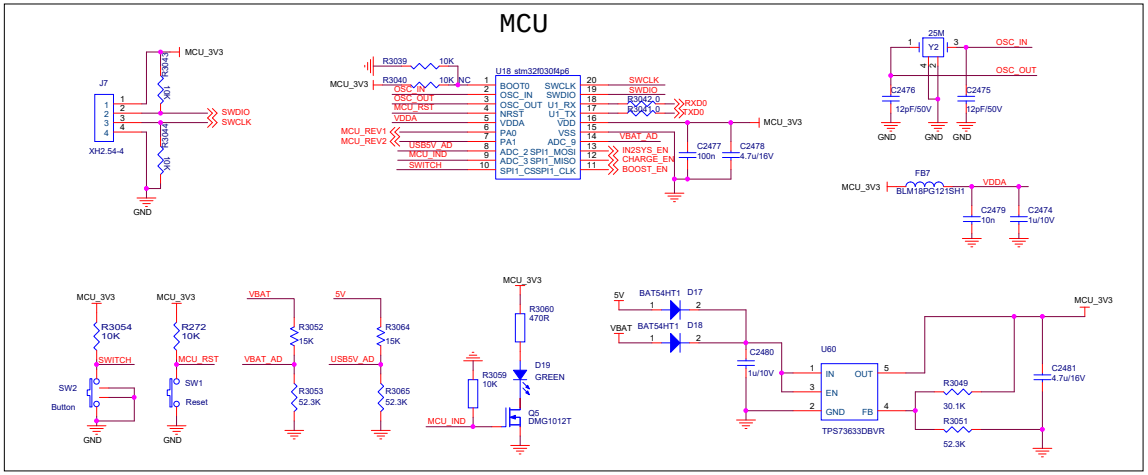

DISPLAY
J21
G2
G1
CON31
CM_3V3
R3057
10K
LCD_RST
VLED-
VLED+

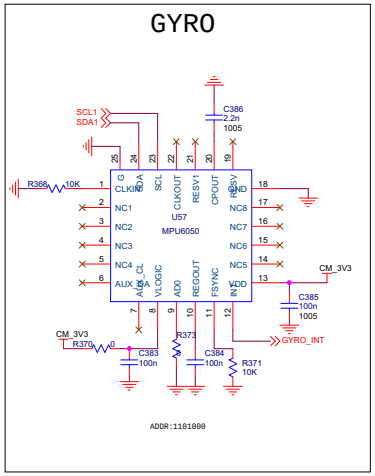

CAMMERA
J11
CM_3V3
R16
4.7K
R17
4.7K
SCL1
SDA1
54548-2271

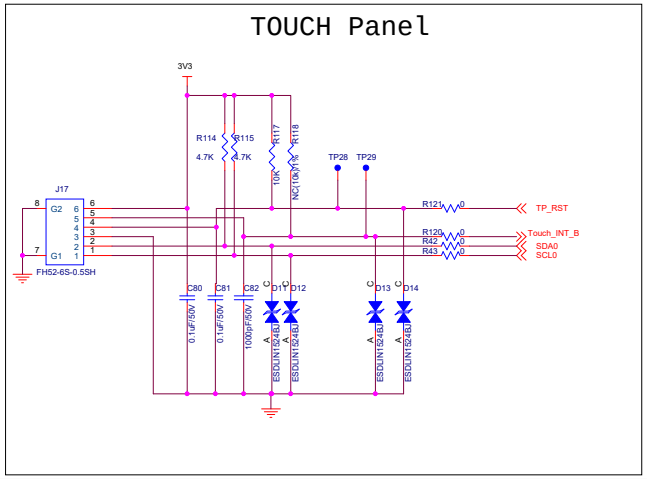

BT&WIFI
U59B
734120110
SW17
R3126
C2498
270pF
C2499
1.5pF
C2500
100n
1005
BT_WAKE
BT_H_WAKE
WL_DS
WL_H_WAKE
RTL8723BS
C2501
R3130
R3131
Y10
32.768KHz_AUZ3200003
C2502
0.1uF
C2503
10u/16V
FB9
BLM18PG121SH1
RTC_CLK_32K768
PCM_FS
PCM_CLK
PCM_DIN
PCM_DOUT


SPEAKER
VBUS
FB2
BLM18PG121SH1
VDD_AMP
C20
47u/6.3V
R125
20K
LM4871MX
U12
Audio_L
Audio_R
R127
R128
C87
0.39u/16V
C86
4.7u/16V
R124
4.7K
AMP_SHUTDOWN
R3061
Q6
DMG1012T
J9
PH2.0-2
Speaker_80hm


HDMI
CM_3V3
R15
NC
HDMI_CEC
VBUS
U4
ESD5384
Q3
DMG1012T
HDMI_SCL
HDMI_SDA
HDMI_HPD
R3068_0
R18 10K
CM_1V8
HDMI_HPD_N_1V8
Q4
DMG1012T
R3062
J13
Taobao
Mini HDMI


MCU
J7
XH2.54-4
SWDIO
SWCLK
GND
U18 stm32f030f4p6
R3039
10K
R3040
10K_NC
MCU_REV1
MCU_REV2
USB5V_AD
MCU_IND
SWITCH
SWCLK
SWDIO
RXD0
TXD0
VBAT_AD
IN2SYS_EN
CHARGE_EN
BOOST_EN
C2477
100n
C2478
4.7u/16V
25M
Y2
OSC_IN
OSC_OUT
C2476
12pF/50V
C2475
12pF/50V
FB7
BLM18PG121SH1
VDDA
C2479
10n
C2474
1u/10V
R3054
10K
SW2
Button
R272
10K
SW1
Reset
VBAT
R3052
15K
R3053
52.3K
5V
R3064
15K
R3065
52.3K
R3060
470R
D19
GREEN
R3059
10K
Q5
DMG1012T
D17
D18
BAT54HT1
C2480
1u/10V
U60
TPS73633DBVR
R3049
30.1K
R3051
52.3K
C2481
4.7u/16V


GYRO
SCL1
SDA1
R369
10K
MPU6050
U57
C386
2.2n
1005
C385
100n
1005
GYRO_INT
R370
0
C383
100n
R373
C384
100n
R371
10K
ADDR:1101000


TOUCH Panel
J17
FH52-6S-0.5SH
R114
4.7K
R115
4.7K
R117
10K
R118
NC(10K)%
TP28
TP29
R121
TP_RST
R120
R42
R43
Touch_INT_B
SDA0
SCL0
C80
C81
C82
D11
D12
D13
D14
ESDLIN1524BJ