

# Xiaomi Poco M3 (J19S\_MB) Schematic Diagram



Xiaomi  
Smartphone

DIGITAL  
BOARD  
SISTEMAS DIGITALIZADOS

*Schematic Diagram*

## I2C Configuration Table

|                          |   |
|--------------------------|---|
| GPIO4<br>GPIO5           | AUDIO&NFC&BL  |
| GPIO22<br>GPIO23         | 48M&R 8M  |
| GPIO29<br>GPIO30         | 2M&2M&F 8M  |
| GPIO96<br>GPIO97         | <a href="https://Mobile1Tech.com">https://Mobile1Tech.com</a> |
| GPIO109<br>GPIO110       | PL&M Sensor I2C   |
| LPI_GPIO21<br>LPI_GPIO22 | G&SAR Sensor I2C  |

**DIGITAL**  
**BOARD**  
ESQUEMAS DIGITALIZADOS

| Sheet | Content   | Sheet | Content               |
|-------|---|-------|-----------------------|
| 01.   | Block Diagram   | 24.   | AUDIO_SPK_PA          |
| 02.   | I2C Configuration Table                                       | 25.   | GP_MIC_REV            |
| 03.   | Table of Content  | 26.   | SENSORS_MOTOR         |
| 04.   | GPIO MAP  | 27.   | LCD_TP_BL             |
| 05.   | SM4250 Control/UFS/SDC1/SDC2                                  | 28.   | REAR&FRONT CAM/pm8008 |
| 06.   | SM4250 LPDDR4X  | 29.   | Fingerprint           |
| 07.   | SM4250 CSI/DSI  | 30.   | BTB_CONN_OVP          |
| 08.   | SM4250 GPIO (Internal Codec)                                  | 31.   | RF_WTR3925_Pin_Out    |
| 09.   | SM4250 Power (Core)   | 32.   | RF_WTR3925_RF_TX      |
| 10.   | SM4250 Power (Other, LP4X)                                    | 33.   | RF_WTR3925_RF_PRX     |
| 11.   | SM4250 Ground   | 34.   | RF_WTR3925_RF_DRX     |
| 12.   | PM4250 CLKs/Control_GND                                       | 35.   | RF_WIFI_BT_GPS        |
| 13.   | PM4250 Buck Converter1  | 36.   | RF_WCN3950            |
| 14.   | PM4250 Buck Converter2  | 37.   | RF_NFC                |
| 15.   | PM4250 LDO  | 38.   | QET                   |
| 16.   | <a href="https://Mobile1Tech.com">https://Mobile1Tech.com</a> | 39.   | Test Points           |
| 17.   | SD_SIM  |       |                       |
| 18.   | PMI632 CHARGING_BATCON  |       |                       |
| 19.   | PMI632 Control/Display/GPIO                                   |       |                       |
| 20.   | uFS   |       |                       |
| 21.   | AUXADC_Thermal  |       |                       |
| 22.   | Audio_CODEC WCD9370   |       |                       |
| 23.   | Key_PAD   |       |                       |

**GPIO MAP**
**SM6115 GPIO Configuration**

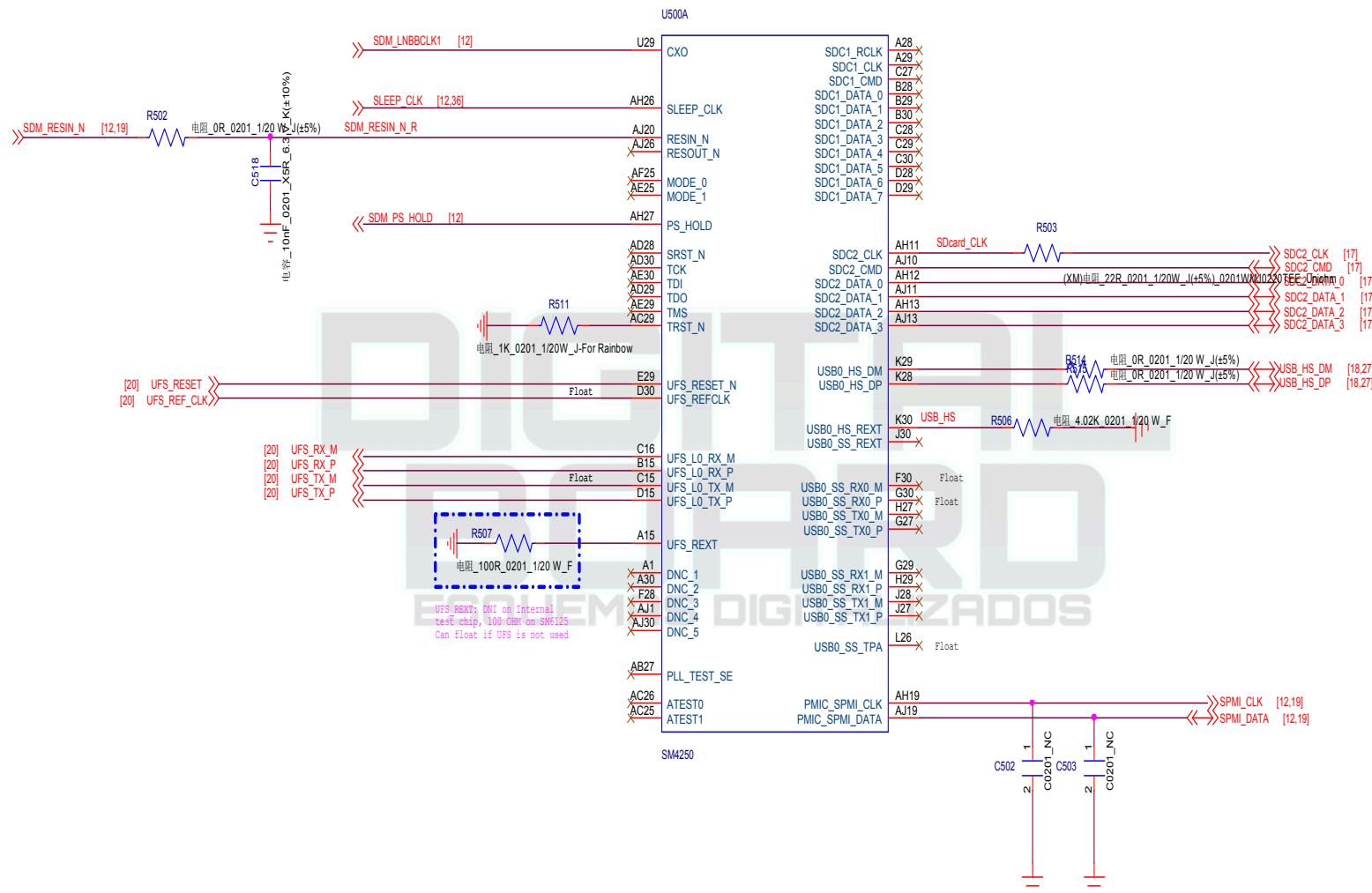
|         |                |         |                     |             |   |
|---------|----------------|---------|---------------------|-------------|---|
| GPIO_0  | NFC_SPI_MISO   | GPIO_42 |                     | GPIO_84     |   |
| GPIO_1  | NFC_SPI_MOSI   | GPIO_43 | GRFC_6              | GPIO_85     | LCM_RST   |
| GPIO_2  | NFC_SPI_CLK    | GPIO_44 | GRFC_7              | GPIO_86     | NFC_CLK_REQ   |
| GPIO_3  | NFC_SPI_CS1_N  | GPIO_45 | GRFC_8              | GPIO_87     | WCN_SW_CTRL   |
| GPIO_4  | APPS_I2C_SDA   | GPIO_46 | GRFC_9              | GPIO_88     | SD_DET  |
| GPIO_5  | APPS_I2C_SCL   | GPIO_47 | GRFC_10             | GPIO_89     | Modem_ID3   |
| GPIO_6  | TP_SPI_MISO    | GPIO_48 |                     | GPIO_90     | MSS_LTE_COXM_TXD  |
| GPIO_7  | TP_SPI_MOSI    | GPIO_49 | GRFC_12             | GPIO_91     | MSS_LTE_COXM_RXD  |
| GPIO_8  | WCN_UART_CTS_N | GPIO_50 |                     | GPIO_92     | WCD9370_RST_N   |
| GPIO_9  | WCN_UART_RFR_N | GPIO_51 |                     | GPIO_93     | FP_POWER_EN   |
| GPIO_10 | WCN_UART_TX_N  | GPIO_52 |                     | GPIO_94     | FORCED_USB_BOOT_POL_SEL                                       |
| GPIO_11 | WCN_UART_RX_N  | GPIO_53 | RFFE1_DATA          | GPIO_95     | FORCED_USB_BOOT   |
| GPIO_12 | MSM_UART_TX    | GPIO_54 | RFFE1_CLK           | GPIO_96     | PA_I2C_SDA  |
| GPIO_13 | MSM_UART_RX    | GPIO_55 |                     | GPIO_97     | PA_I2C_SCL  |
| GPIO_14 | FP_SPI_MISO    | GPIO_56 |                     | GPIO_98     | PA_SPK_RST  |
| GPIO_15 | FP_SPI_MOSI    | GPIO_57 | RFFE3_DATA          | GPIO_99     | LCD_ID0   |
| GPIO_16 | FP_SPI_CLK     | GPIO_58 | RFFE3_CLK           | GPIO_100    | LCD_ID1   |
| GPIO_17 | FP_SPI_CS_N    | GPIO_59 |                     | GPIO_101    | LCD_ID2   |
| GPIO_18 | CAM_3_PDN      | GPIO_60 |                     | GPIO_102    | USB_SS_SEL  |
| GPIO_19 | CAM_F_RST      | GPIO_61 |                     | GPIO_103    | CTP_RST   |
| GPIO_20 | CAM_R_MCLK     | GPIO_62 | RFFE5_DATA          | GPIO_104    | CTP_EINT  |
| GPIO_21 | CAM_F_MCLK     | GPIO_63 | RFFE5_CLK           | GPIO_105    | SMB_STAT  |
| GPIO_22 | CAM_I2C_SDA0   | GPIO_64 | EXT_GPS_LNA_EN0     | GPIO_106    | ALS_EINT  |
| GPIO_23 | CAM_I2C_SCL0   | GPIO_65 | CHO_GSM_TX_PHASE_D0 | GPIO_107    | PA_RSV_RST  |
| GPIO_24 | CAM_2_RST      | GPIO_66 | CAM_R_RST           | GPIO_108    | DSI_TE  |
| GPIO_25 | PM8008_INT_N   | GPIO_67 | NC                  | GPIO_109    | Sensor_I2C_SDA  |
| GPIO_26 | PM8008_RST_N   | GPIO_68 | Modem_ID1           | GPIO_110    | Sensor_I2C_SCL  |
| GPIO_27 | CAM_MCLK_2     | GPIO_69 | SUB_ID              | GPIO_111    | CONFIG0   |
| GPIO_28 | CAM_MCLK_3     | GPIO_70 | NFC_ENABLE          | GPIO_112    | CONFIG1   |
| GPIO_29 | CAM_I2C_SDA1   | GPIO_71 | NFC_INT_N           | LPI_GPIO_0  | SWR_TX_CLK  |
| GPIO_30 | CAM_I2C_SCL1   | GPIO_72 | TP_SPI_SCLK         | LPI_GPIO_1  | SWR_TX_DATA0  |
| GPIO_31 | NFC_DLW_REQ    | GPIO_73 | UIM2_DATA           | LPI_GPIO_2  | SWR_TX_DATA1  |
| GPIO_32 | FP_ID1         | GPIO_74 | UIM2_CLK            | LPI_GPIO_3  | SWR_RX_CLK  |
| GPIO_33 | FP_ID2         | GPIO_75 | UIM2_RESET          | LPI_GPIO_4  | SWR_RX_DATA0  |
| GPIO_34 | FP_EINT        | GPIO_76 | UIM2_DET            | LPI_GPIO_5  | SWR_RX_DATA1  |
| GPIO_35 | FP_RST         | GPIO_77 | UIM1_DATA           | LPI_GPIO_14 | QCA_SB_CLK  |
| GPIO_36 | G_EINT_ACC     | GPIO_78 | UIM1_CLK            | LPI_GPIO_15 | QCA_SB_DATA   |
| GPIO_37 | GRFC_0         | GPIO_79 | UIM1_RESET          | LPI_GPIO_21 | Sensor_I3C_SDA  |
| GPIO_38 | GRFC_1         | GPIO_80 | UIM1_DET            | LPI_GPIO_22 | Sensor_I3C_SCL  |
| GPIO_39 | GRFC_2         | GPIO_81 | TP_SPI_CS_N         | LPI_GPIO_25 | <a href="https://Mobile1Tech.com">https://Mobile1Tech.com</a> |
| GPIO_40 | ANT_TEST       | GPIO_82 | Modem_ID2           | LPI_GPIO_26 |   |
| GPIO_41 |                | GPIO_83 | Modem_ID4           |             |   |

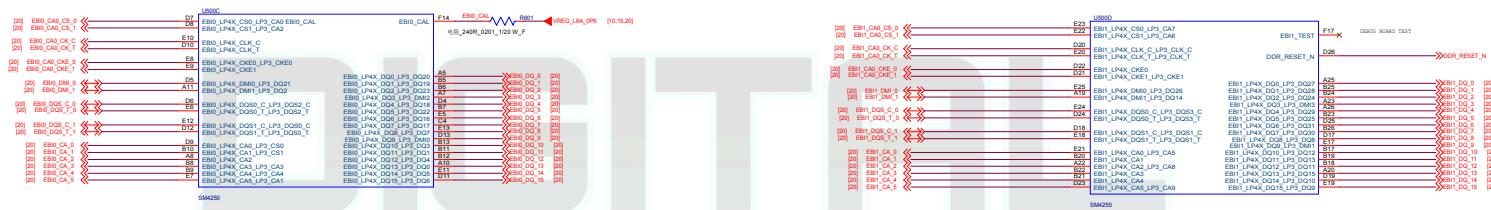
**PM4250 GPIO Configuration**

|        |               |        |           |
|--------|---------------|--------|-----------|
| GPIO_1 | DSP_CLK       | GPIO_8 | USB莫斯CTRL |
| GPIO_2 | FLASH_THERMAL | GPIO_9 |           |
| GPIO_3 | USB1_THERM    |        |           |
| GPIO_4 | USB2_THERM    |        |           |
| GPIO_5 | KEY_VOL_UP    |        |           |
| GPIO_6 | BB_THERM      |        |           |
| GPIO_7 | Modem_ID5     |        |           |

**PMI632 GPIO Configuration**

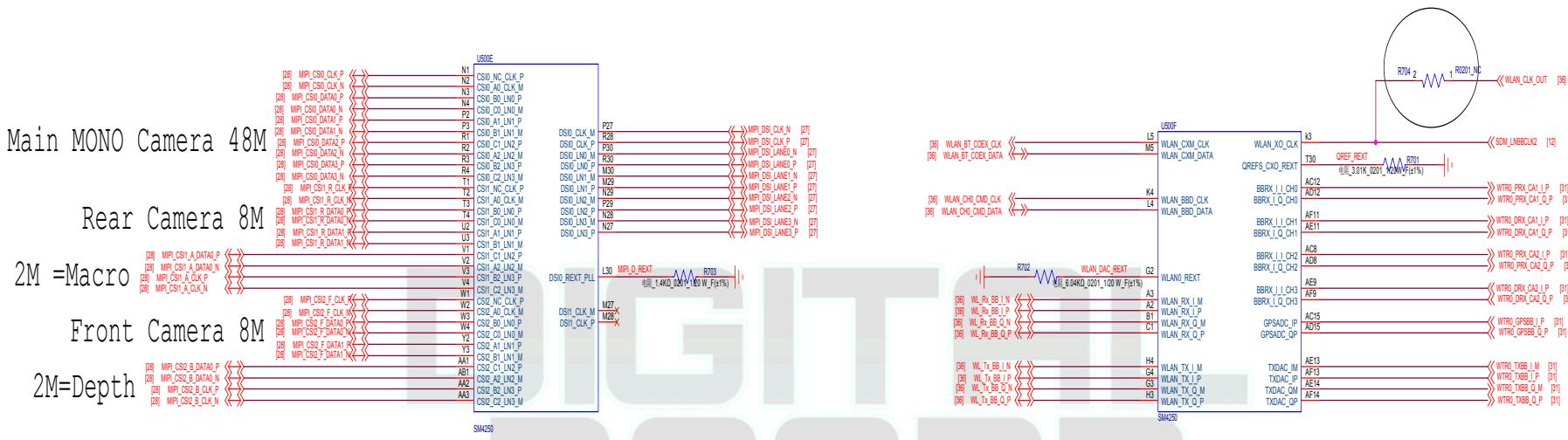
|        |              |        |            |
|--------|--------------|--------|------------|
| GPIO 1 | NC           | GPIO 8 | ISNS_SMB_M |
| GPIO 2 | STAT_CHG     |        |            |
| GPIO 3 | PMI632_THERM |        |            |
| GPIO 4 |              |        |            |
| GPIO 5 |              |        |            |
| GPIO 6 |              |        |            |
| GPIO 7 | ISNS_SMB_P   |        |            |

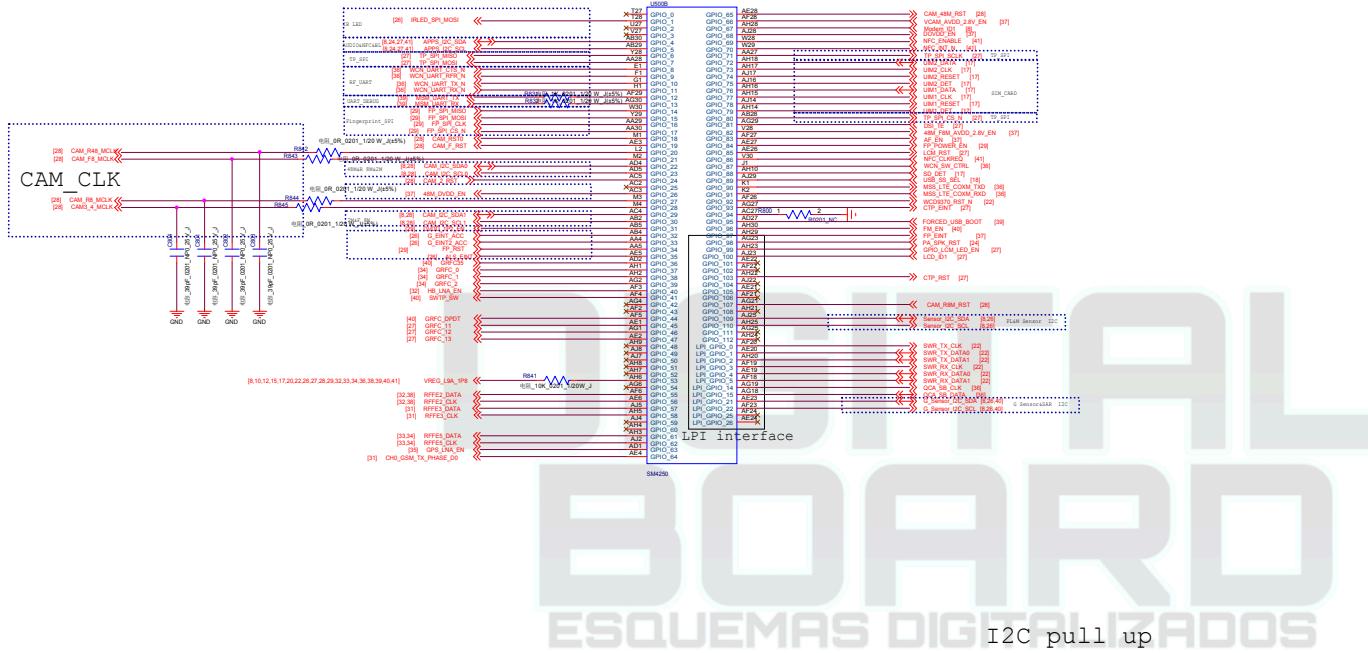




<https://Mobile1Tech.com>

|                              |
|------------------------------|
| Company: Haipin              |
| Rock Title: SM8115LPDDR4     |
| Project: J109_ID_V1          |
| Date: Friday August 28, 2020 |

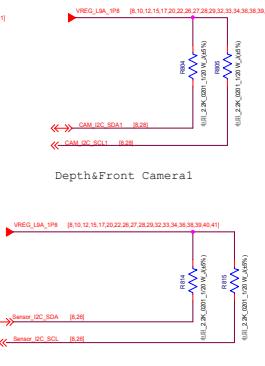
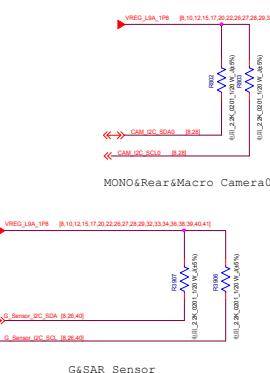
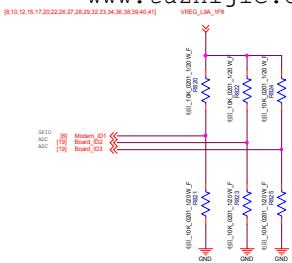




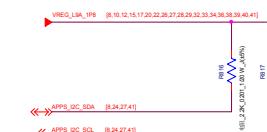
| BOOT Config GPIOs      | Functionality          |
|------------------------|------------------------|
| GPIO_95                | Forced_USB_BOOT        |
| BOOT Config[0]:GPIO_48 | WDOG_DISABLE           |
| BOOT Config[1]:GPIO_50 | FASTBOOT_SEL[0]        |
| BOOT Config[2]:GPIO_51 | FASTBOOT_SEL[1]        |
| BOOT Config[3]:GPIO_53 | FASTBOOT_SEL[2]        |
| BOOT Config[4]:GPIO_55 | FASTBOOT_SEL[3]        |
| GPIO_94                | Forced_USB_BOOT_POL_SE |

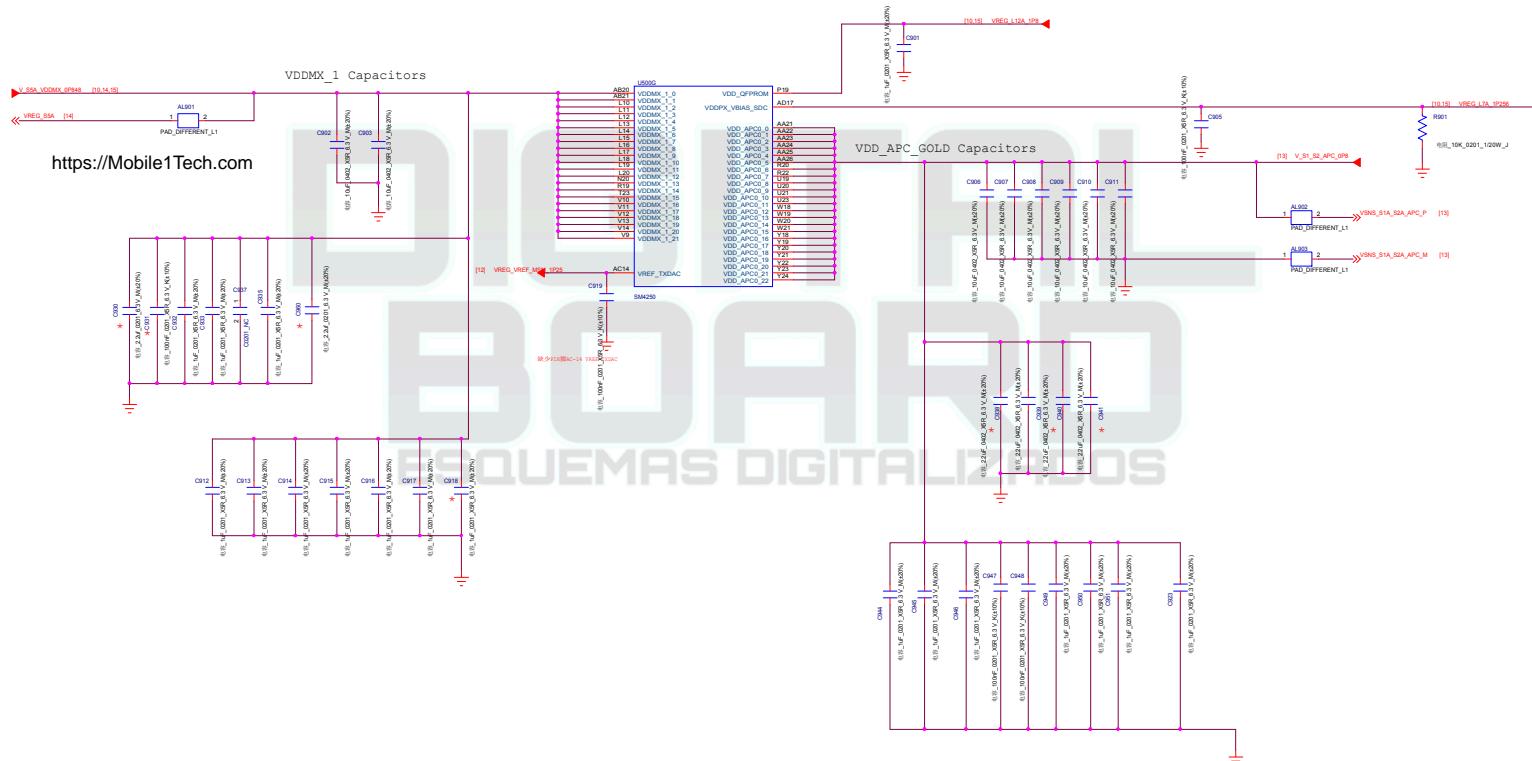
| FASTBOOT_SEL[3:0] | BOOT OPTIONS                                |
|-------------------|---|
| 0b0000            | 0:Default (eMMC>SD>eDL (eDL path-USB only)) |
| 0b0001            | 1:SD>eMMC>eDL (eDL path-USB only))          |
| 0b0010            | 2:SD>eDL (eDL path-USB only)                |
| 0b0011            | 3:USB>eDL (eDL path-SD then USB)            |
| 0b0100            | 5:UFS HS G1>SD>eDL (eDL path-USB only))     |
| 0b0101            | 4:SD>UFS HS G1>eDL (eDL path-USB only))     |
| 0b1100            | 6:UFS HS G1>eDL (eDL path-USB only))        |
| 0b0111            | 7:eMMC>SD>eDL (eDL path-USB only))          |
| 0b1000            | 8:eMMC>eDL (eDL path-USB only))             |

Hardware&Board ID  
www.tuzhijie.com

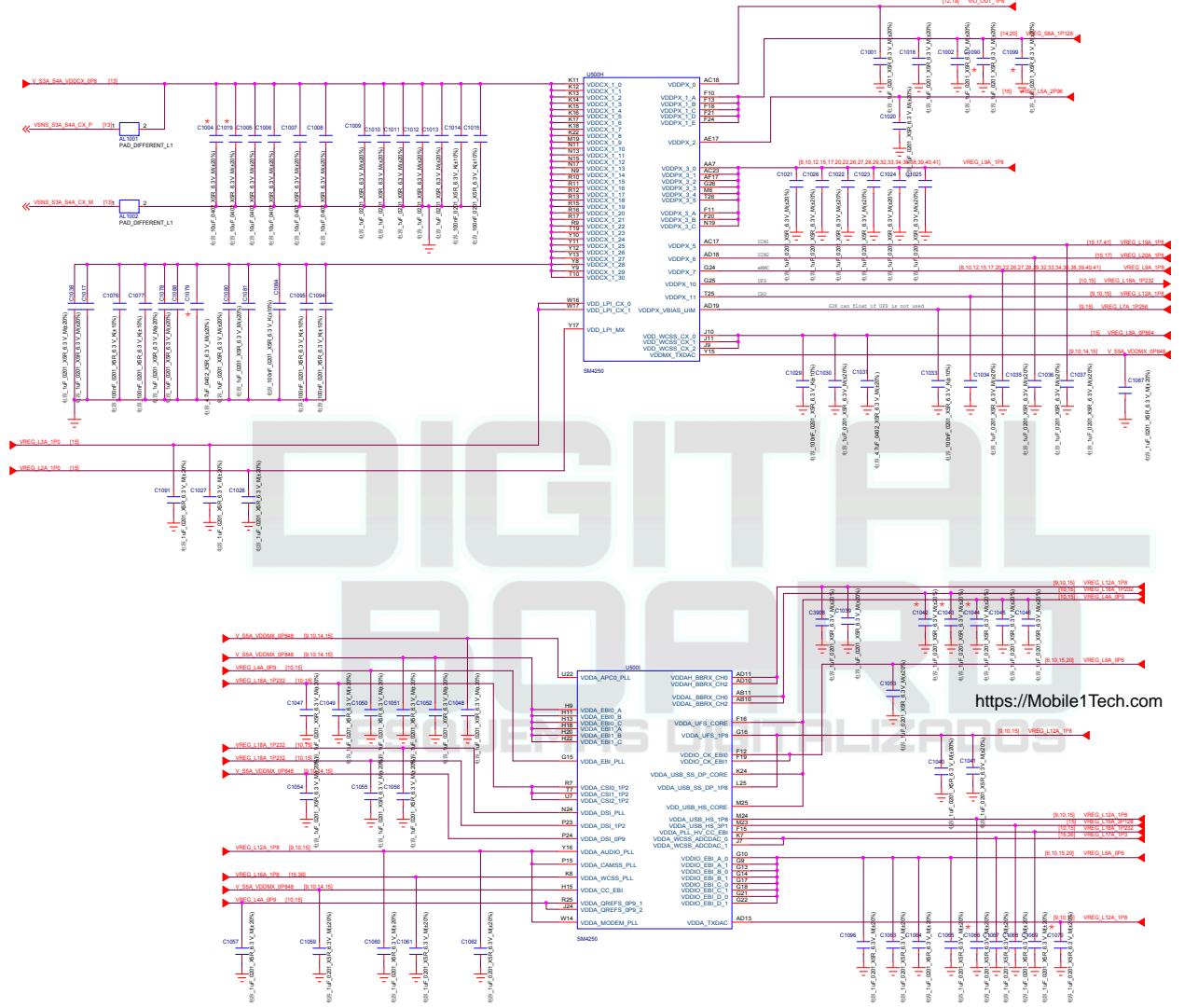


<https://Mobile1Tech.com>



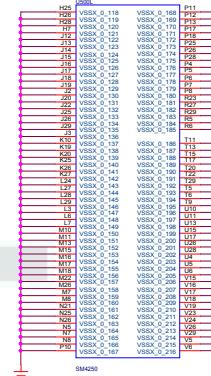
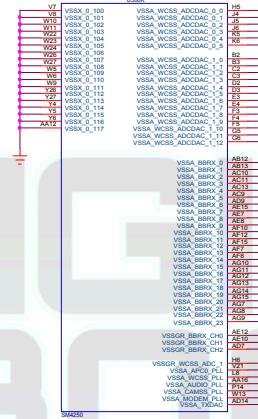
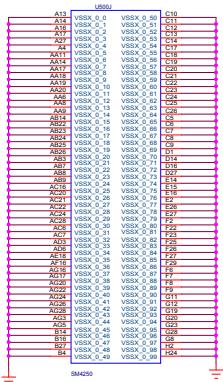


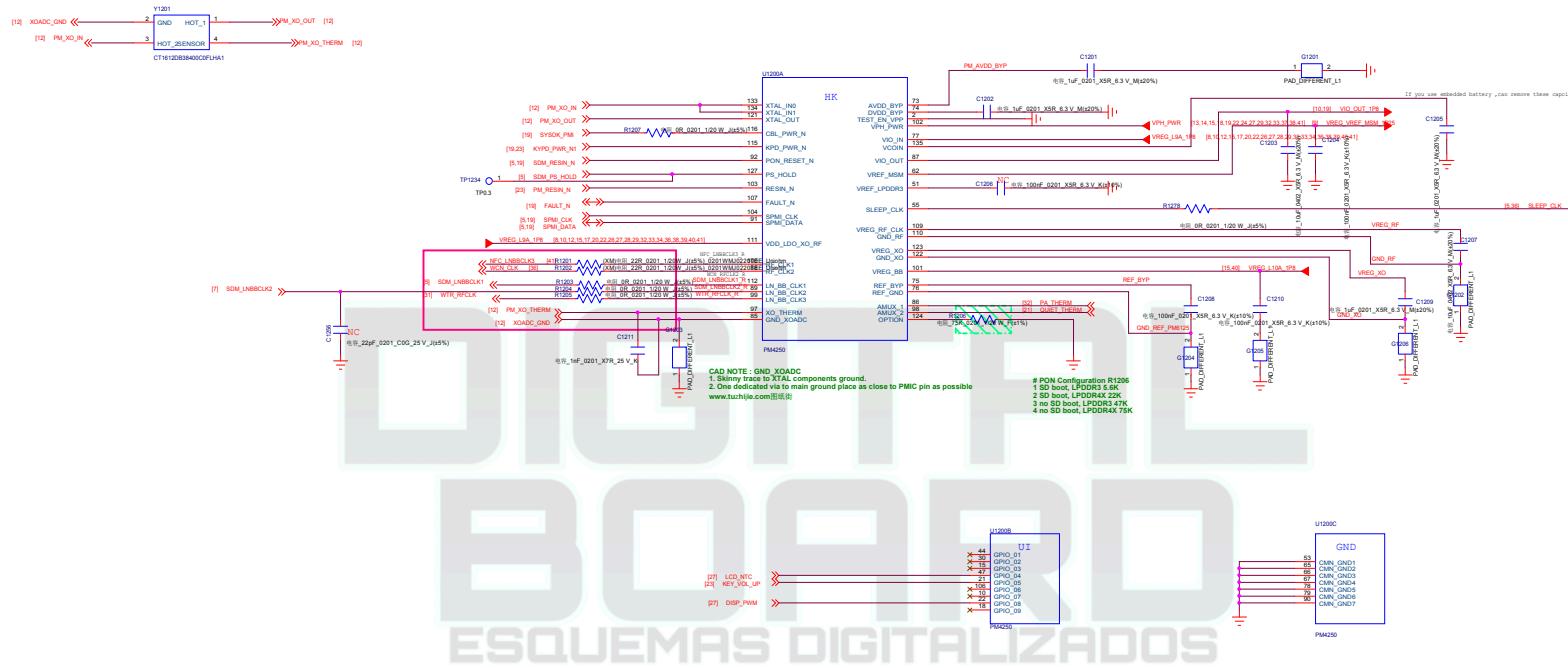
|                 |                         |
|-----------------|-------------------------|
| Company: Huajin |                         |
| Block Title     | SM4250 Power (Core)     |
| Project         | J19S_MB_V1              |
| Date:           | Friday, August 28, 2020 |
| Rev             | 1.0                     |
| Sheet           | 9 of 41                 |



<https://Mobile1Tech.com>

|               |                            |
|---------------|----------------------------|
| Company:      | Huagin                     |
| Stock Ticker: | SM4250 Power (Other, LP4X) |
| Project:      | J198_MB_V1                 |
| Date:         | Friday, August 28, 2020    |





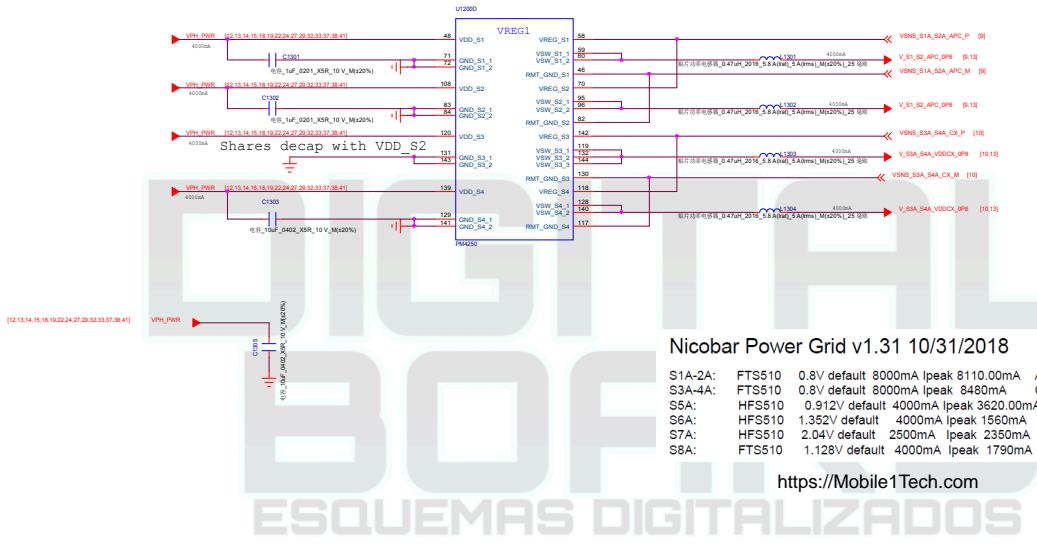
| Option Pin Resistor Value | Configuration                                      |
|---------------------------|--|
| 5.6K                      | No External Boost Bypass, SD Card Boot, LPDDR4     |
| 22K                       | No External Boost Bypass, SD Card Boot, LPDDR4x    |
| 47K                       | No External Boost Bypass, No SD Card Boot, LPDDR3  |
| 75K                       | No External Boost Bypass, No SD Card Boot, LPDDR4x |
| 130K                      | External Boost Bypass, SD Card Boot, LPDDR3        |
| 240K                      | External Boost Bypass, SD Card Boot, LPDDR4x       |
| 330K                      | External Boost Bypass, No SD Card Boot, LPDDR3     |
| 750K                      | External Boost Bypass, No SD Card Boot, LPDDR4x    |

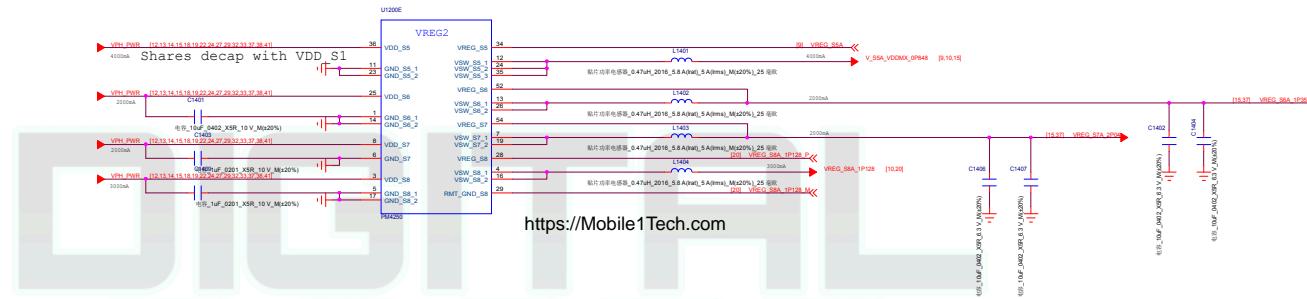
Note: SD Card Boot implies the voltages for SD card will be enabled during Power On sequence  
No SD Card Boot implies the voltages for SD card will be disabled during Power On sequence

| Option Pin Resistor Value | Configuration                                      |
|---------------------------|--|
| 5.6K                      | No External Boost Bypass, SD Card Boot, LPDDR3     |
| 22K                       | No External Boost Bypass, SD Card Boot, LPDDR4x    |
| 47K                       | No External Boost Bypass, No SD Card Boot, LPDDR3  |
| 75K                       | No External Boost Bypass, No SD Card Boot, LPDDR4x |
| 130K                      | External Boost Bypass, SD Card Boot, LPDDR3        |
| 240K                      | External Boost Bypass, SD Card Boot, LPDDR4x       |
| 330K                      | External Boost Bypass, No SD Card Boot, LPDDR3     |
| 750K                      | External Boost Bypass, No SD Card Boot, LPDDR4x    |

Note: SD Card Boot implies the voltages for SD card will be enabled during Power On sequence  
No SD Card Boot implies the voltages for SD card will be disabled during Power On sequence

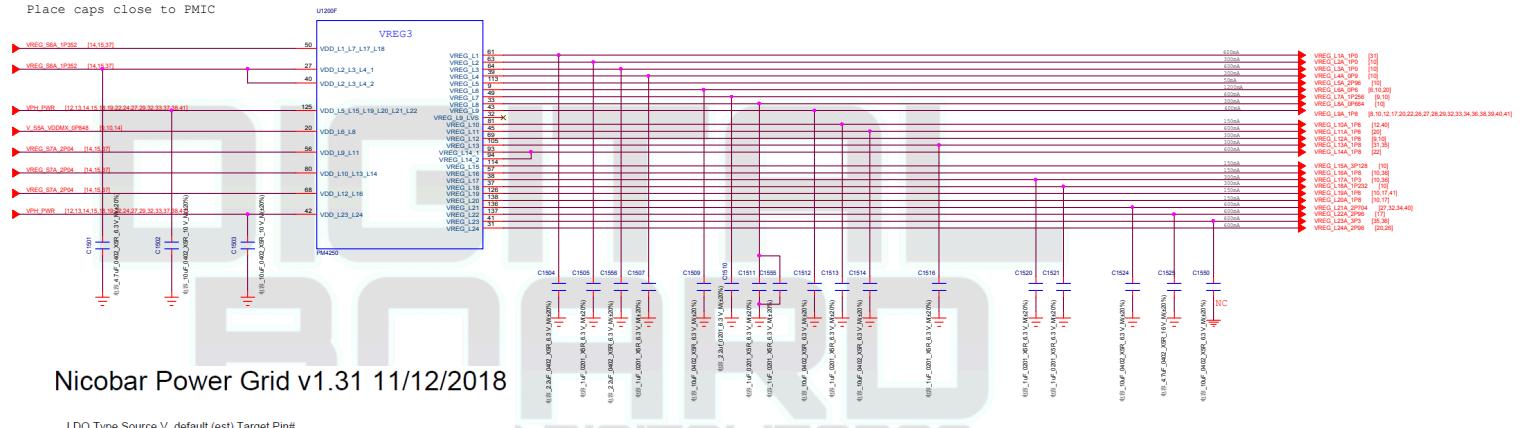
<https://Mobile1Tech.com>





<https://Mobile1Tech.com>

|                 |                         |
|-----------------|-------------------------|
| Company: Huajin |                         |
| Block Title     | PM4250 LDO Circuits     |
| Project         | J195_MB_V1              |
| Date:           | Friday, August 28, 2020 |
| Rev             | 1.0                     |
| Sheet           | 14 of 41                |



Nicobar Power Grid v1.31 11/12/2018

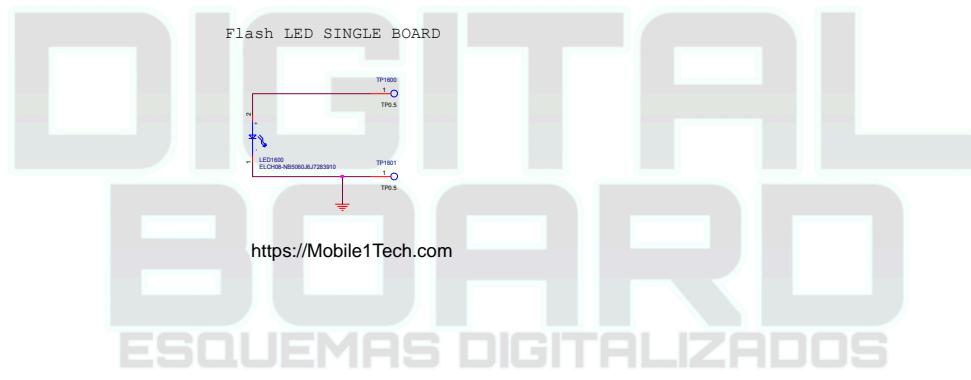
| LDO Type   | Source V              | Part                                | Function | Notes |
|------------|-----------------------|-------------------------------------|----------|-------|
| L1 N600    | S6A 1.2V              | (25) QNIN SDR 1.2 61                |          |       |
| L2 N300    | S8A 1V (320)          | SDR DDO 1.0V 63                     |          |       |
| L3 N600    | S8A 1V (370)          | SDR DDO 1.0V 64                     |          |       |
| L4 N300    | S8A 0.928V (126)      | DLINK EBI, MPI 39                   |          |       |
| L5 MPV50   | VPH 2.96V (22)        | PX 113                              |          |       |
| L6 N1200   | S5A 0.624V (1040)     | VDDO, EBI 9                         |          |       |
| L7 N600    | S6A 0.928V (54.2)     | USB 4E                              |          |       |
| L8 N300    | S5A 0.664V (81) CX 33 |                                     |          |       |
| L9 LPV600  | STA 1V (754)          | Sensors, WCD, TMD, PMI, MSM, QET 43 |          |       |
| L10 LPV150 | STA 1V (100)          | QFPRM, USF, UFS, PX 81              |          |       |
| L11 LPV600 | STA 1V (829)          | EMC/CVCC 45                         |          |       |
| L12 LPV300 | STA 1V (121)          | UVB, OSB, REDRIVER 69               |          |       |
| L13 LPV600 | STA 1V (204)          | UVB, BRRX, GPS 105                  |          |       |
| L14 LPV600 | STA 1V (404)          | UVB, DSD, DSD 4                     |          |       |
| L15 MPV150 | VPH 3.12V (52.8)      | USB 3.1 DP PHY 114                  |          |       |
| L16 LPV150 | STA 1V (62.5)         | WNS, HCN, XG 03                     |          |       |
| L17 N300   | S6A 1.304V (24)       | WCN, WSS, ADX DAC 38                |          |       |
| L18 N300   | S6A 1.222V (13)       | MPU, VDPPX 37                       |          |       |
| L19 MPV150 | VPH/B 1.8V (60.2)     | Memory, SN100, PX 126               |          |       |
| L20 MPV150 | VPH/B 1.8V (60.2)     | Memory, SN100, PX 138               |          |       |
| L21 MPV600 | VPH/B 2.704V (0.08)   | QAT, DFE, RTC, QSW 136              |          |       |
| L22 MPV600 | VPH/B 2.96V (600)     | IMC 137                             |          |       |
| L23 MPV600 | VPH/B 3.304V (591)    | WCN 3.3V 41                         |          |       |
| L24 MPV600 | VPH/B 2.96V (1176)    | EMMC 31                             |          |       |

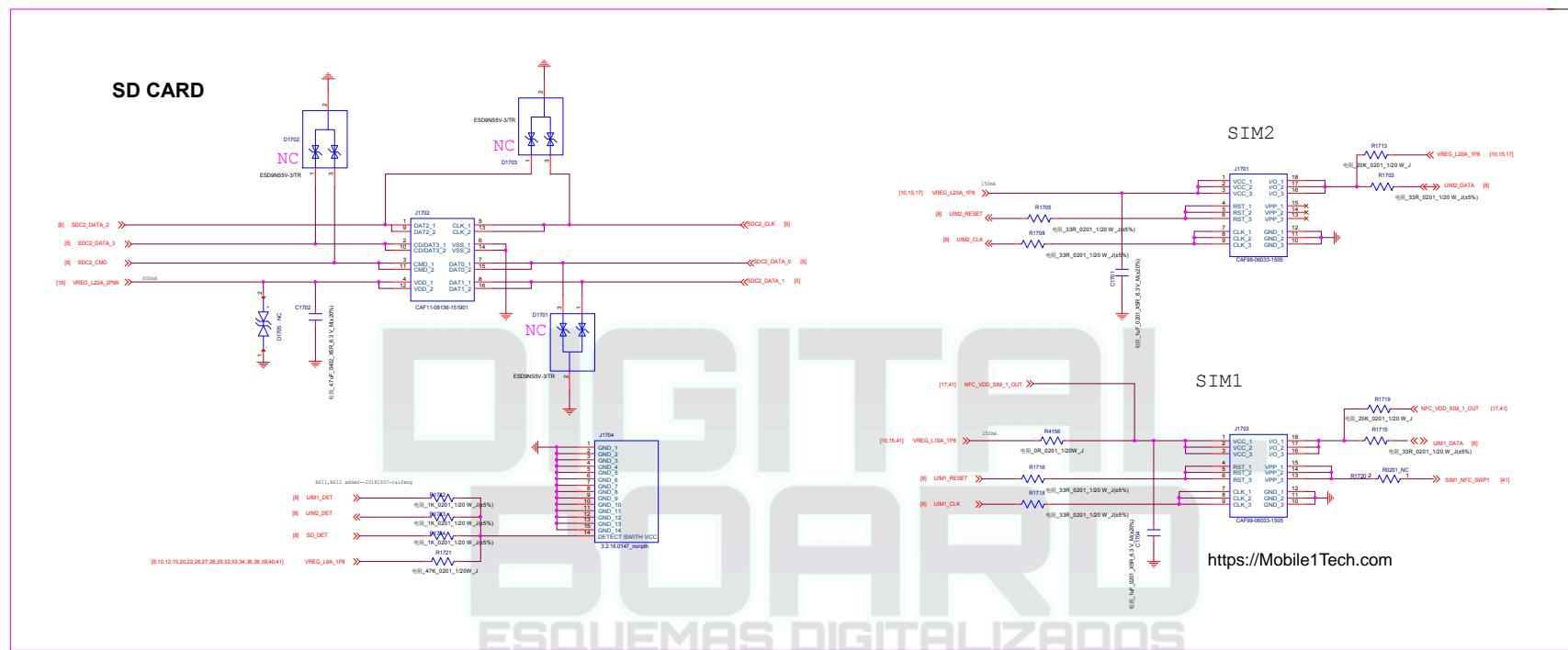
LDO L5/L9/L10/L11/L12/L13/L14/L15/L16/L19/L20/L21/L22/L23/L24 is the Pseudo-capless LDO, so can dñi CAP in BOM  
PSEUDO CAPLESS LDOs  
P-type are pseudo-capless, cap can be at load  
For CAPLESS LDOs: If decaps on the load side do not  
add up to LDO cap, then the load can see the DNLIC

<https://Mobile1Tech.com>

<https://Mobile1Tech.com>

|             |                          |
|-------------|--------------------------|
| Company:    | Huajin                   |
| Block Title | PM4250 Charger_FG        |
| Project     | J195_MB_V1               |
| Date:       | Editted: August 16, 2006 |
| Rev         | 1.0                      |
| Sheet       | 16                       |
| of          | 41                       |





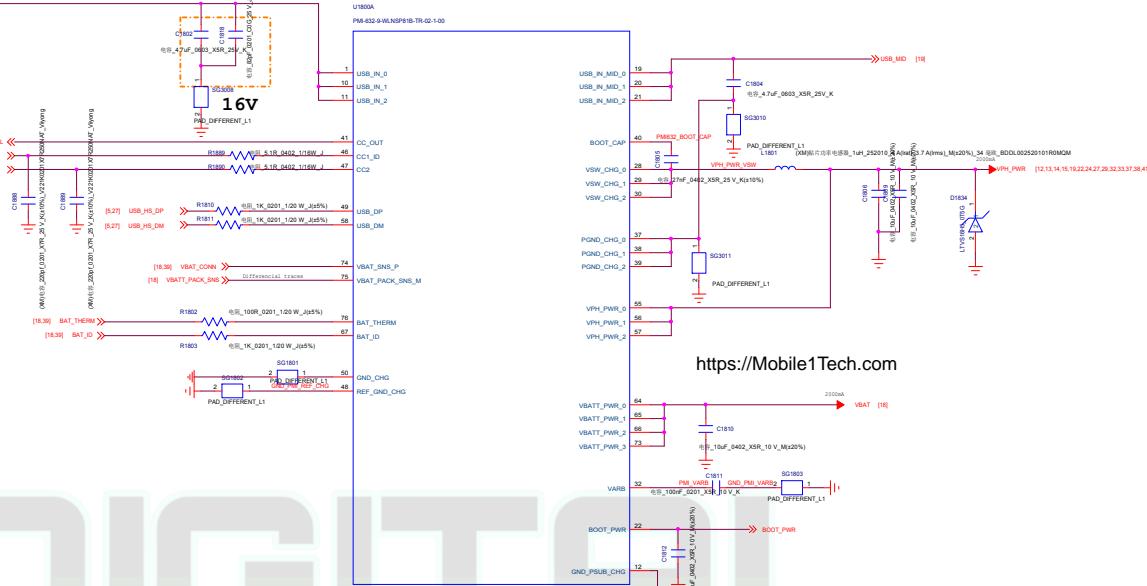
Schematic design notice of "46\_MEMORY\_SD Card" page.

Note 46-1: For better ESD performance, please select suitable components for system protection.

|  |
|--|
| Company: Haigh                                 |
| Book Title: SDASM                              |
| Project: J105_M8_V1                            |
| Date: Friday, August 28, 2020   Sheet: 17 / 21 |

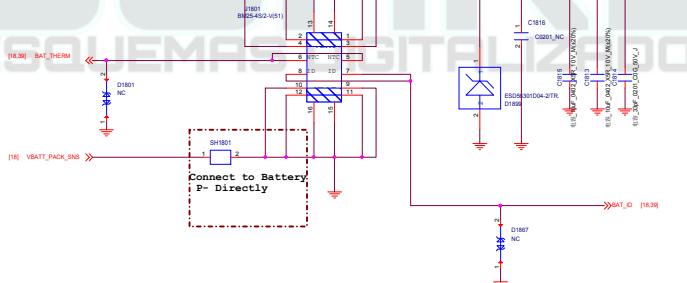
PMI632 Charger

|         |  |  |
|---------|--|--|
| PWR_PIN | connection on device without Wipower   | connection on device with Wipower  |
| CVG_OK  | Pull up to VDD_CAP with 1kohm  | Stark PRO CVG_OK   |
| DIV2_IN | Pull down to GND with 100m   | Stark PRO DIV2_IN  |
| GPI02   | <ul style="list-style-type: none"> <li>No Connect</li> <li>For parallel charging: Connects to SNG IN pin</li> <li>Do NOT pull up to VDD_CAP</li> </ul> | <ul style="list-style-type: none"> <li>100m pull down to GND</li> <li>For parallel charging: Connects to SNG IN pin.</li> <li>DO NOT pull up to VDD_CAP</li> </ul> |



<https://Mobile1Tech.com>

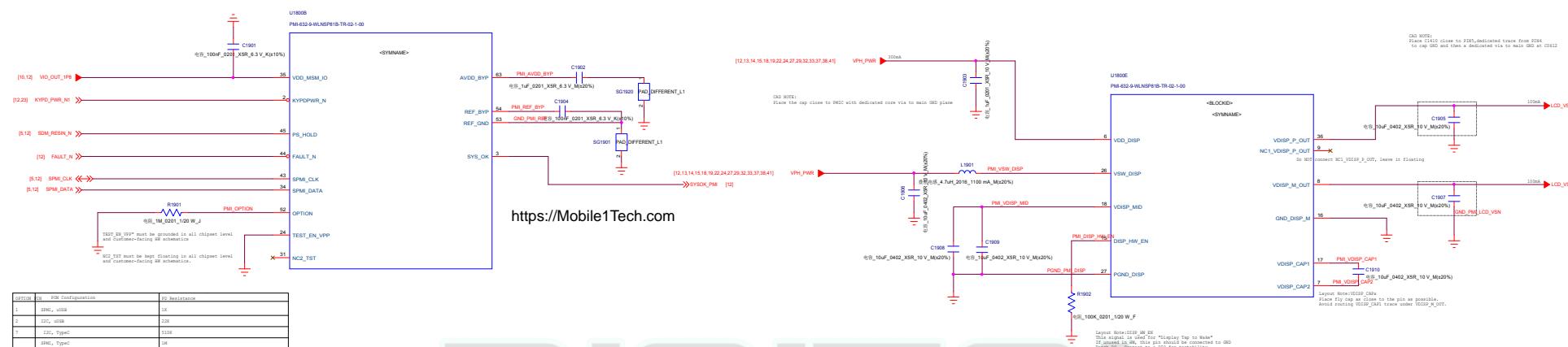
## Battery Connector



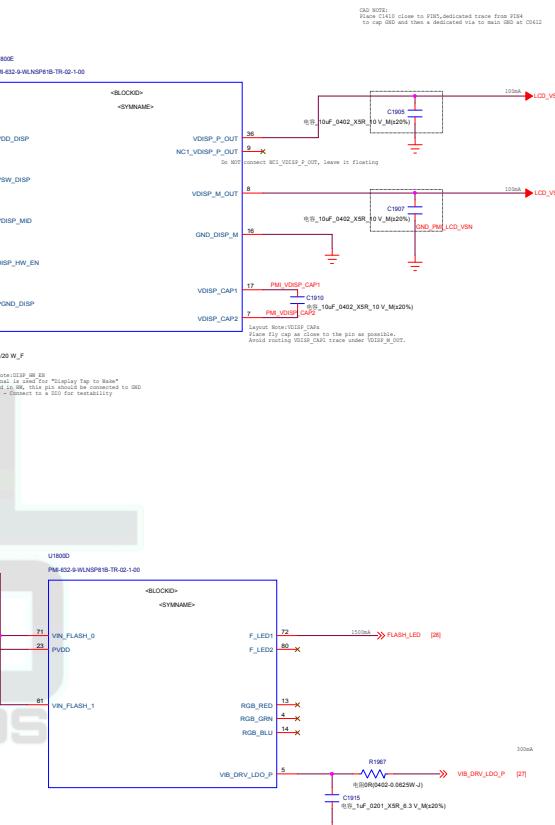
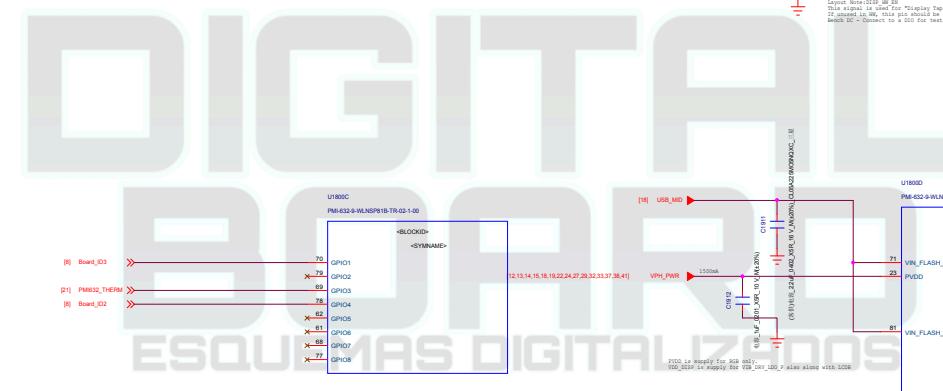
Schematic design notice of "26\_POWER\_SubPMIC-Charger + PP" page

Note 26-1: For better ESD or surge performance we need choose suitable device for system protection. Please refer to [Surge device selection guide V2.0] provide by MTK.

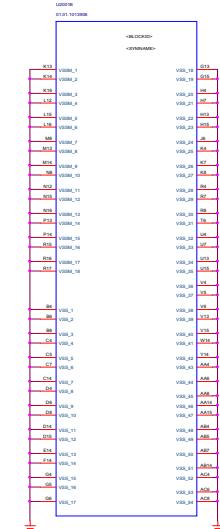
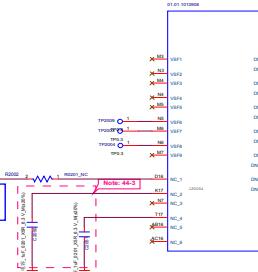
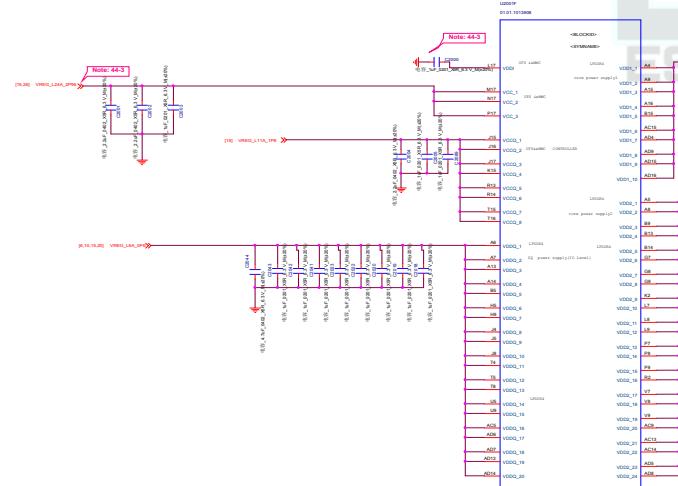
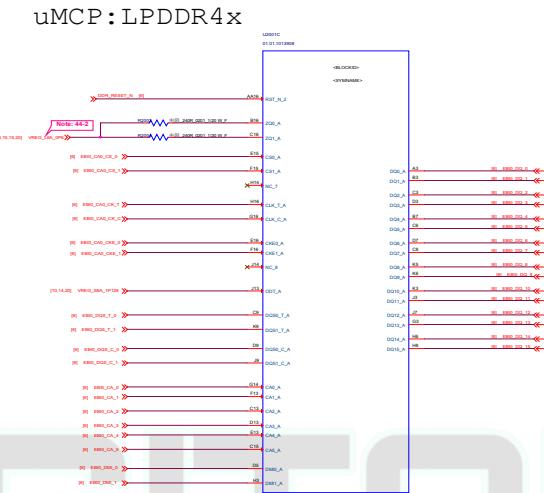
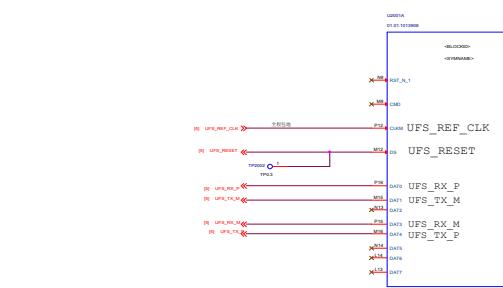
|                            |
|----------------------------|
| Company: Huajin            |
| Block Title PMS32          |
| Project J195_MB_V1 Rev 1.0 |



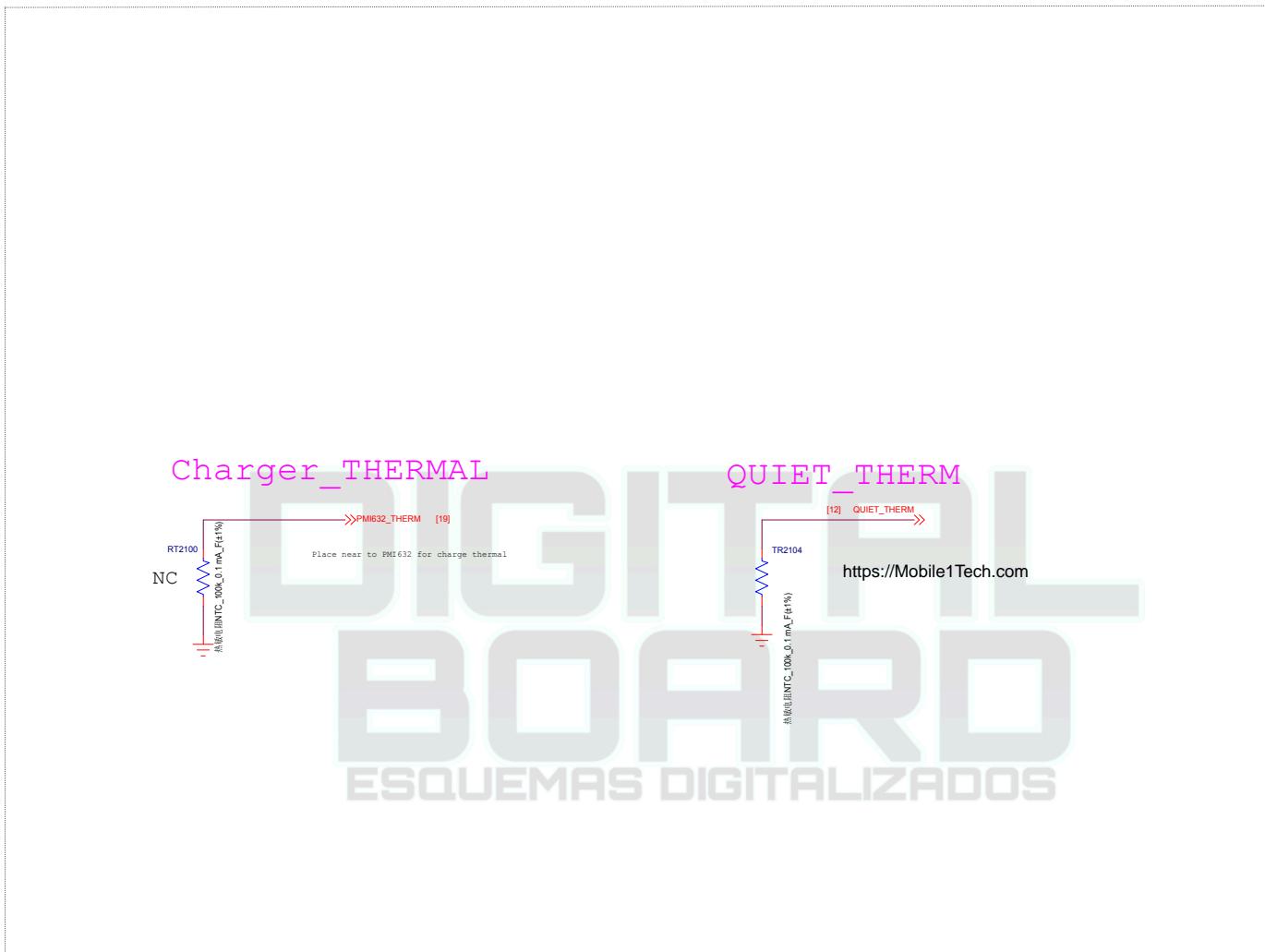
<https://Mobile1Tech.com>



UFS MEMORY

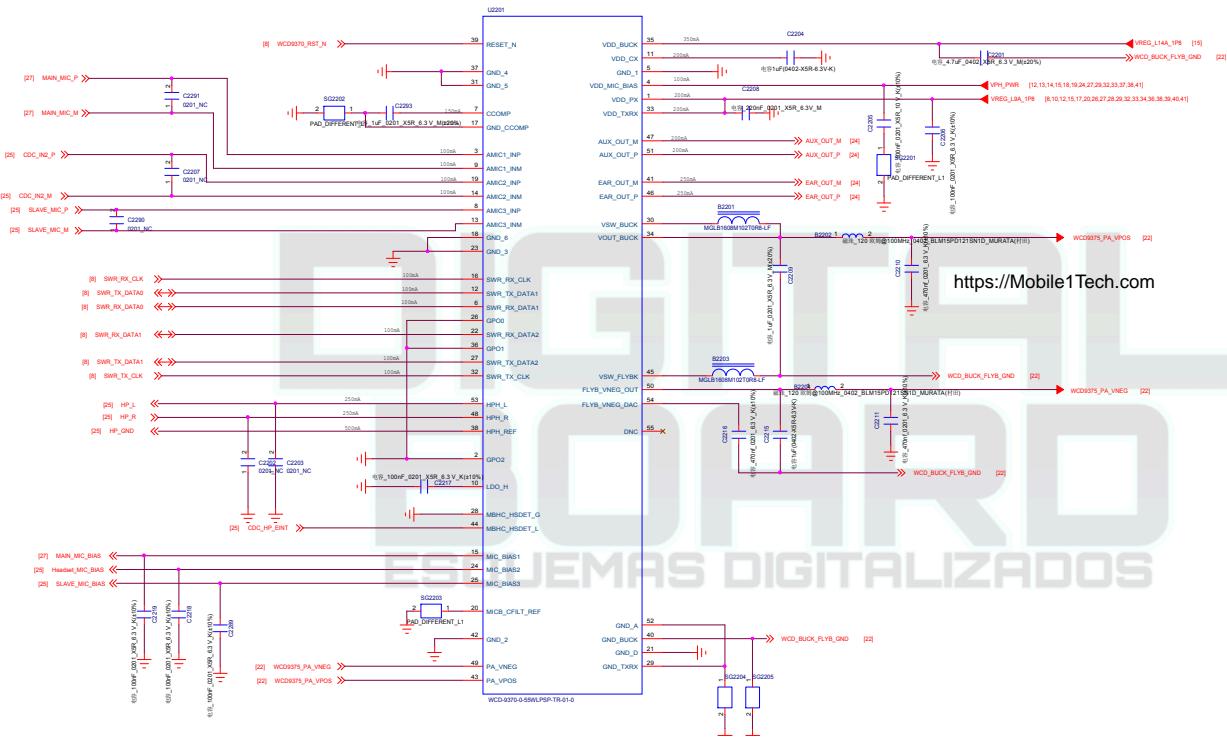


hyinx是0.22uF，最大不超过1uF，  
micron是1uF，  
三星的不需要贴。  
但是为了避免项目使用几家的uMCP时bom出错，统一贴1uF



|             |                         |
|-------------|-------------------------|
| Company:    | Huaqin                  |
| Block Title | NTC                     |
| Project     | J19S_MB_V1              |
| Date:       | Friday, August 28, 2020 |
| Rev         | 1.0                     |
| Sheet       | 21 of 41                |

WCD9370

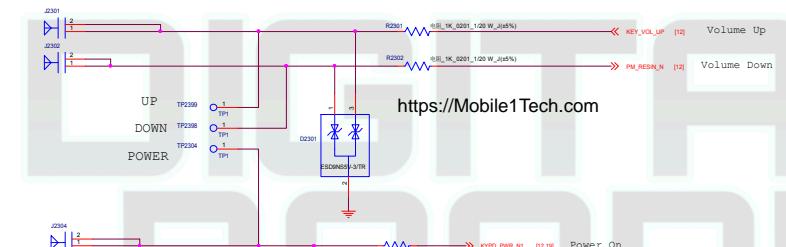


<https://Mobile1Tech.com>

|                               |
|-------------------------------|
| Company: Huajin               |
| Block Title      Codac        |
| Project: J195_MB_V1           |
| Date: Friday, August 28, 2020 |

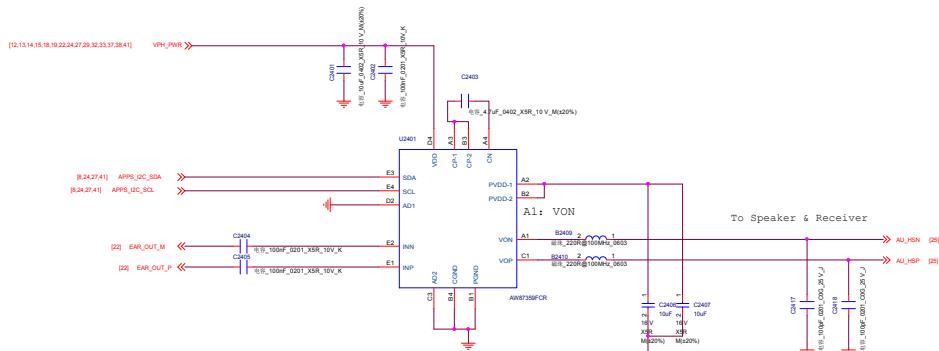
Power Key => PWRKEY + GND  
Volume Up => COL0 + GND (Download Key)  
Volume Down => FCHR\_ENB + GND  
[www.tuzhijie.com](http://www.tuzhijie.com) 图纸街

DO NOT put pull-up resistor on PWRK



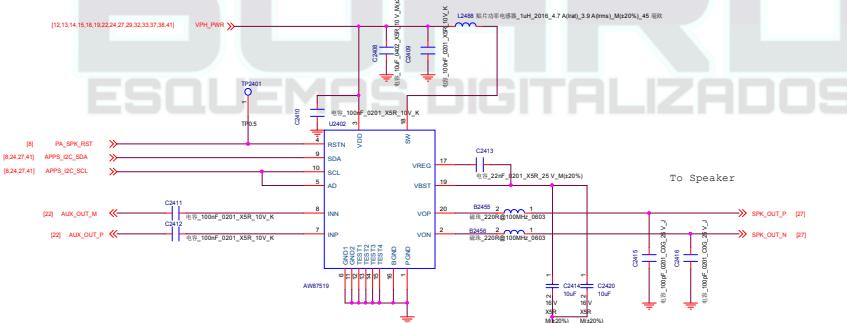
## TP/GND/Shielding

|                 |                           |       |             |
|-----------------|---------------------------|-------|-------------|
| Company: Huajin |                           |       |             |
| Block Title     |                           |       | Test Points |
| Project         | J195_MB_V1                | Rev.  | 1.0         |
| Date:           | Edition: Averaged 06/2009 | Sheet | 19 of 41    |



AW87359 footprint updated

<https://Mobile1Tech.com>

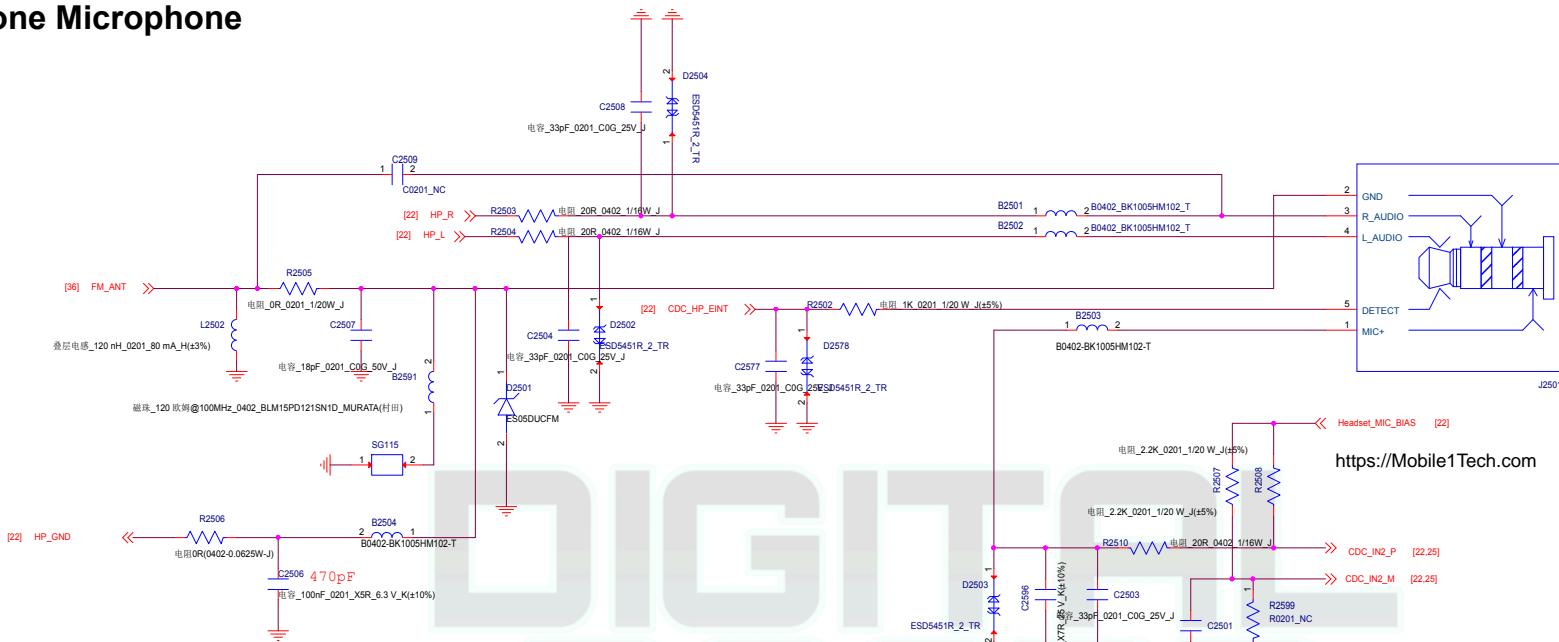


|                    |
|--------------------|
| Company: Hauppauge |
| Block Title        |
| AUDIO_Stereo_SPK   |
| Project            |

J199\_M6\_V1 Rev 1.0

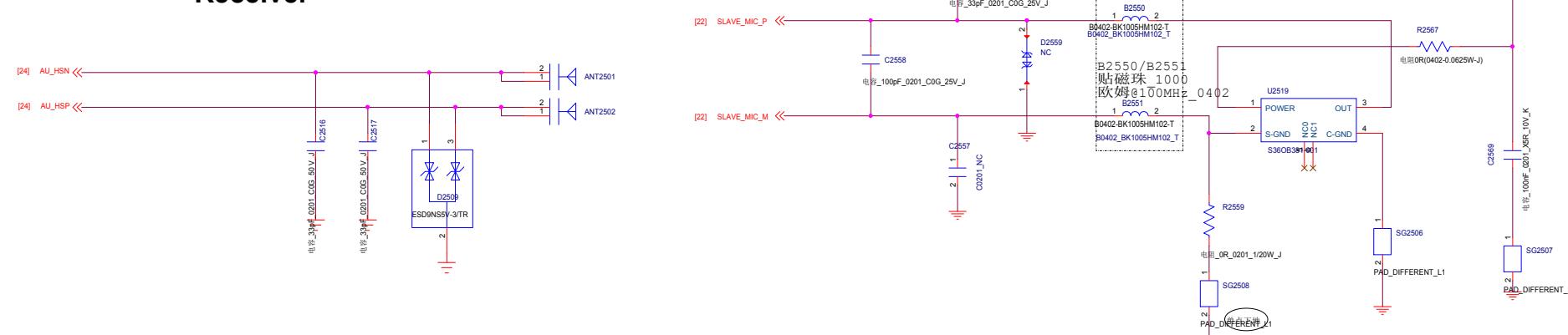
Date: Friday August 28, 2020 Sheet 24 of 41

# Earphone Microphone

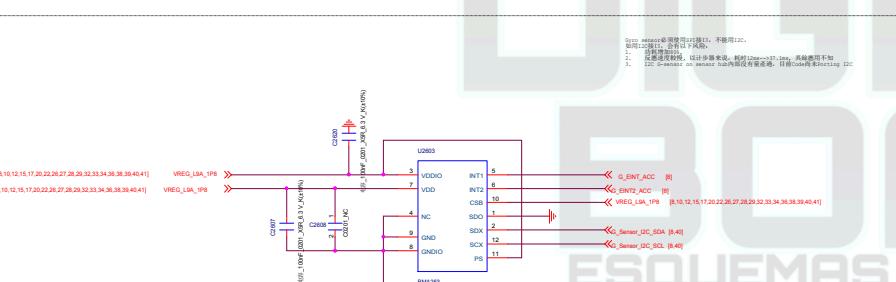
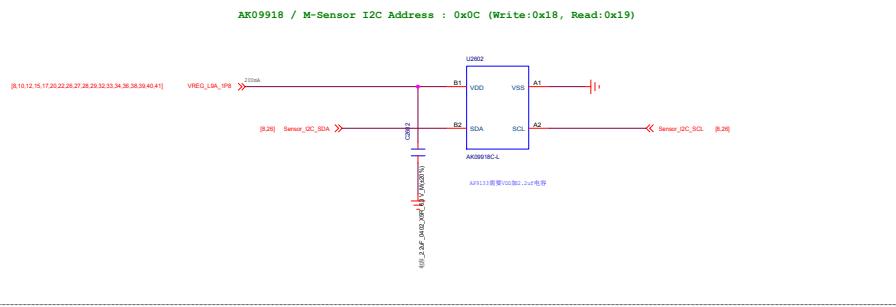


<https://Mobile1Tech.com>

# Receiver

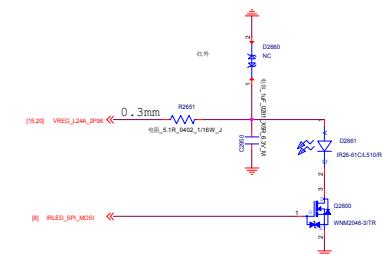
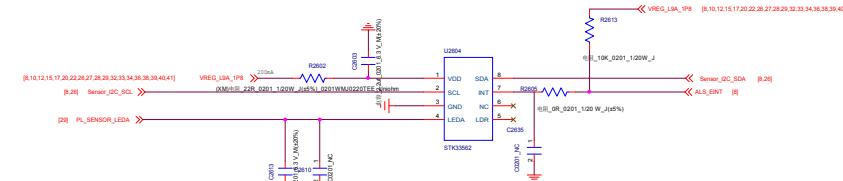


## M-Sensor

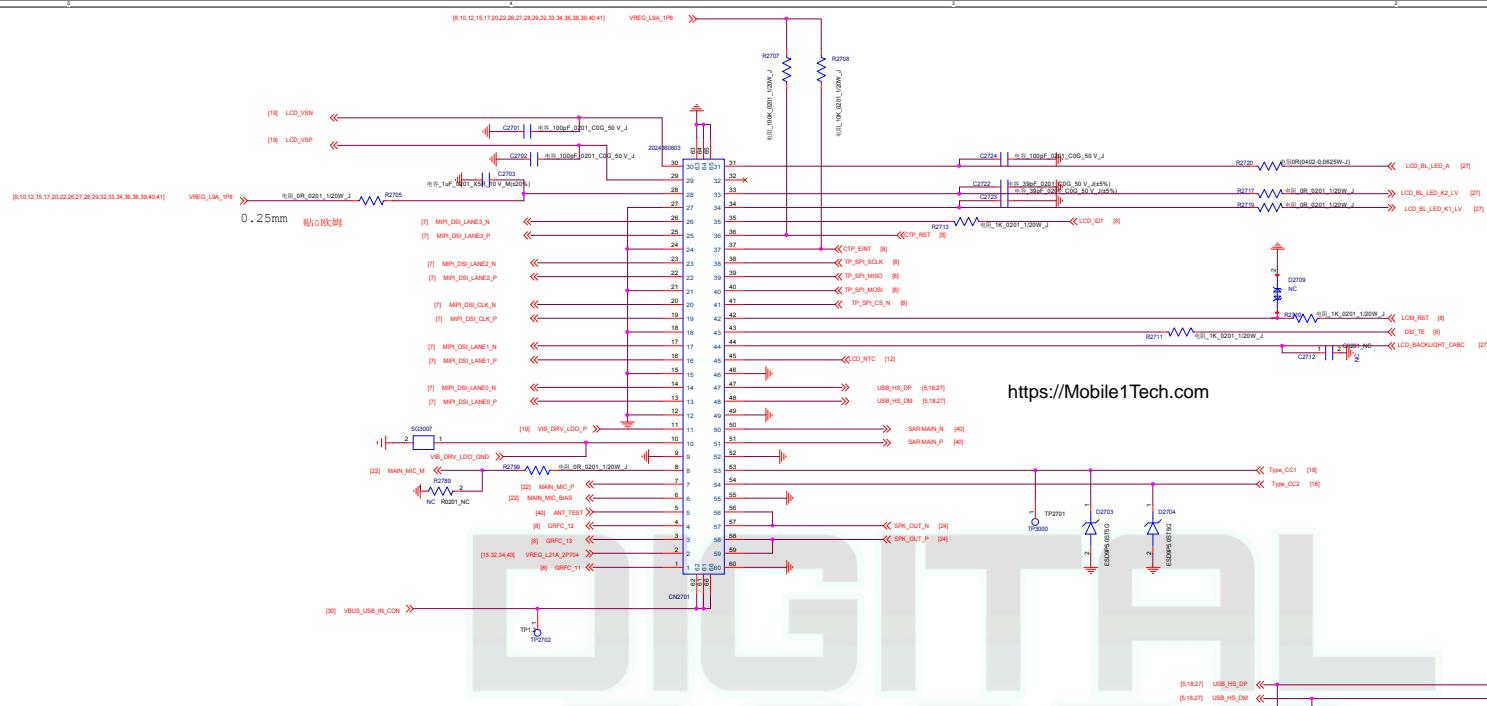


<https://Mobile1Tech.com>

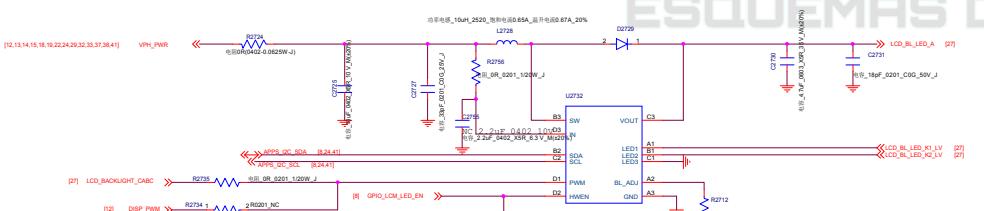
## ALS SENSOR



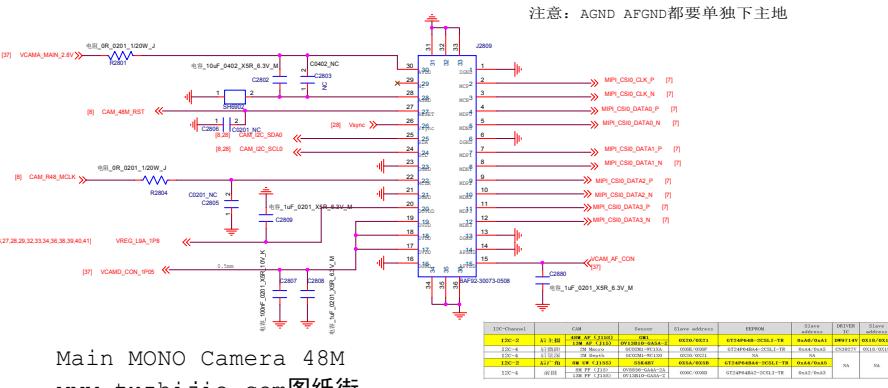
|                |                        |
|----------------|------------------------|
| Company: Haupi |                        |
| Rock Title     | SENSORS                |
| Project        | J198_M0_V1             |
| Date           | Friday August 28, 2020 |
| Rev            | 1.0                    |
| Sheet          | 26                     |
| of             | 41                     |



## LCM Backlight LED Driver

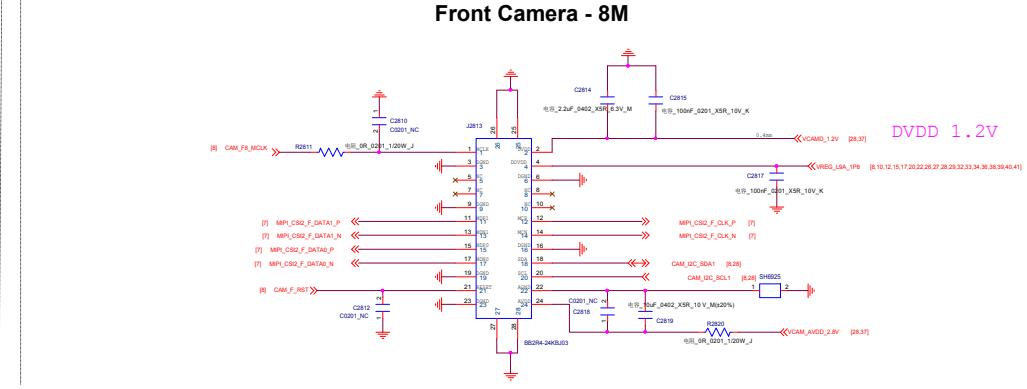


| 厂家      | I2C ADDRESS            |
|---------|------------------------|
| LM3587  | 0110110 binary (or 36) |
| KTD3136 | 0110110 binary (or 36) |



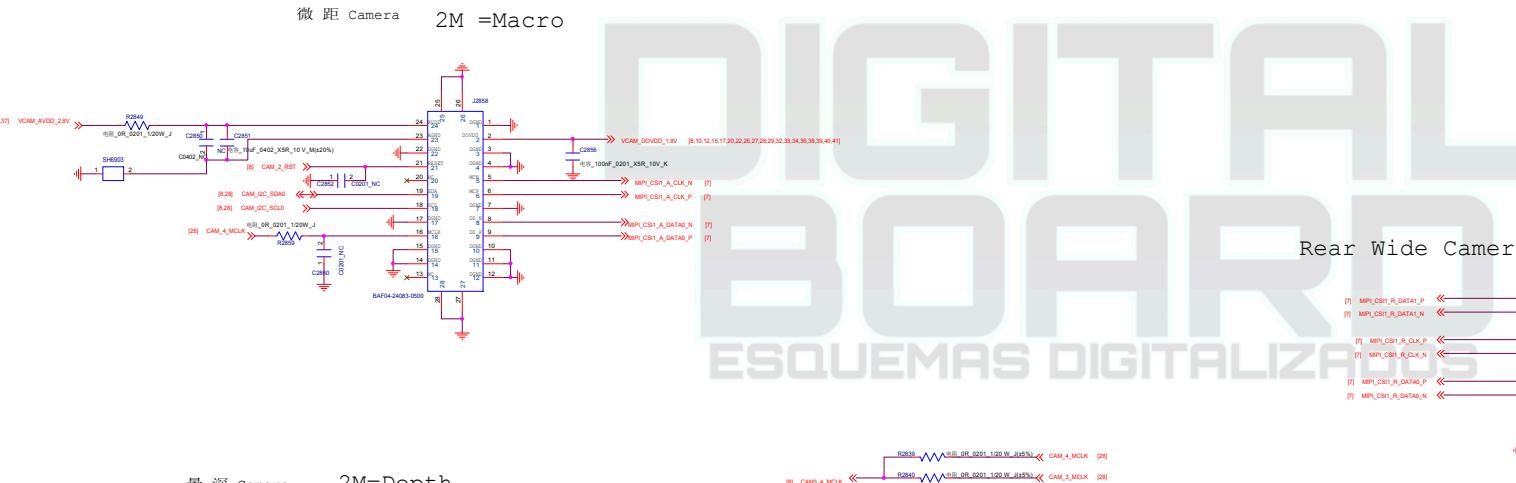
Main MONO Camera 48M  
www.tuzhijie.com 图纸街

www.tuzhijie.com 图纸街

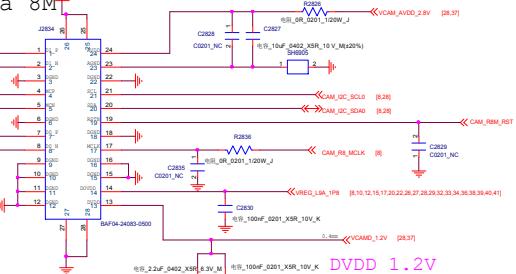


**Front Camera - 8M**

DVDD 1.2V

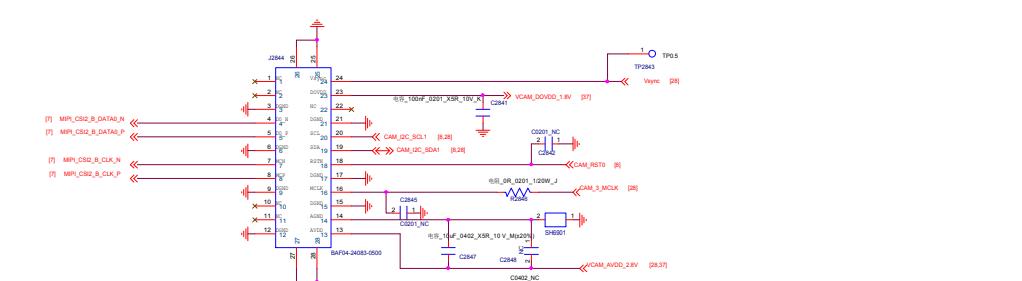


景深 Camera 2M=Depth

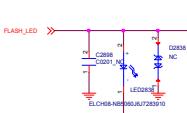


Rear Wide Ca

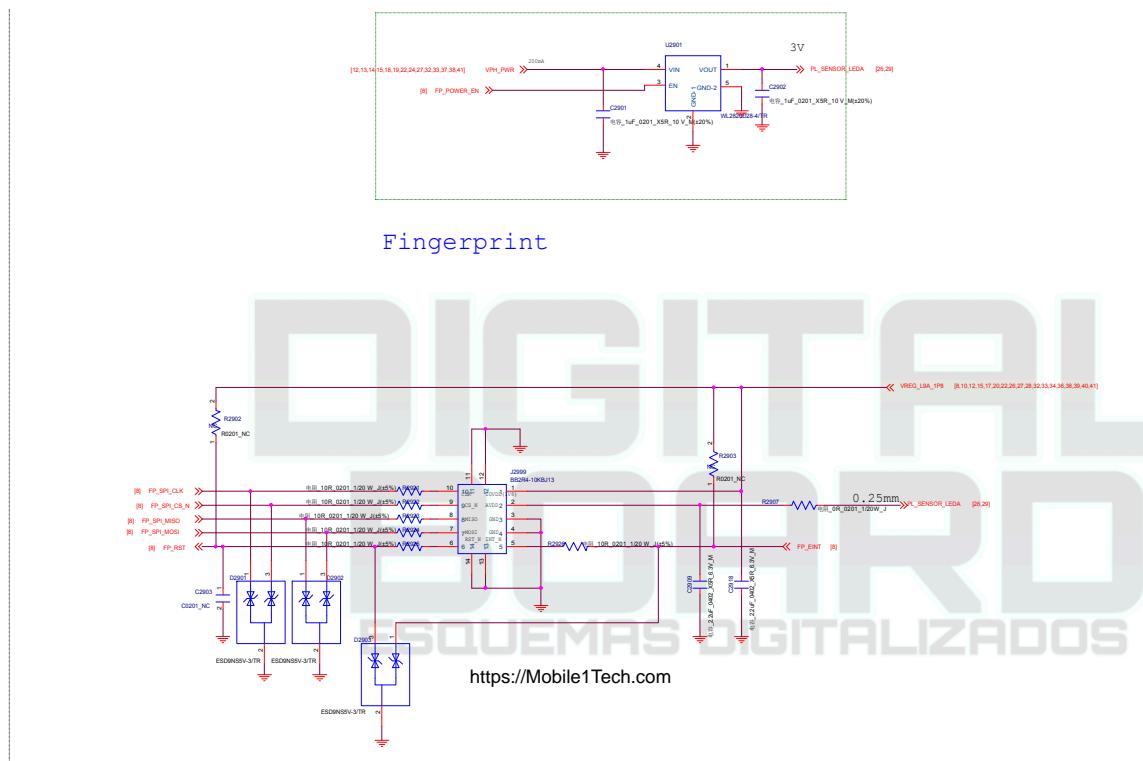
<https://Mobile1Tech.com>



#### FLASH LED



|                 |                         |
|-----------------|-------------------------|
| Company: Huajin | REAR_CAMFLASH           |
| Block Title     |                         |
| Project         | J195_MB_V1              |
| Date            | Friday, August 28, 2020 |
| Rev             | 1.0                     |
| Sheet           | 28 of 41                |



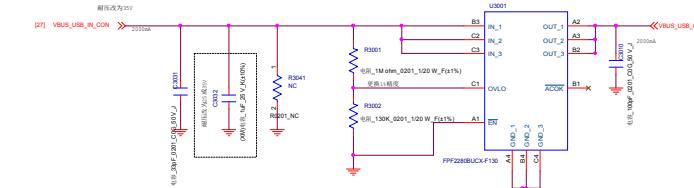
Schematic design notice of "71\_PERI\_USB 2.0" page.

Note 71-1: For better ESD or surge performance we need choose suitable device for system protection. Please refer to [Surge device selection guide V2.0] provide by MTK.

**BTB Connector**

Ground protected separately each lane  
90Ωm Differential impedance

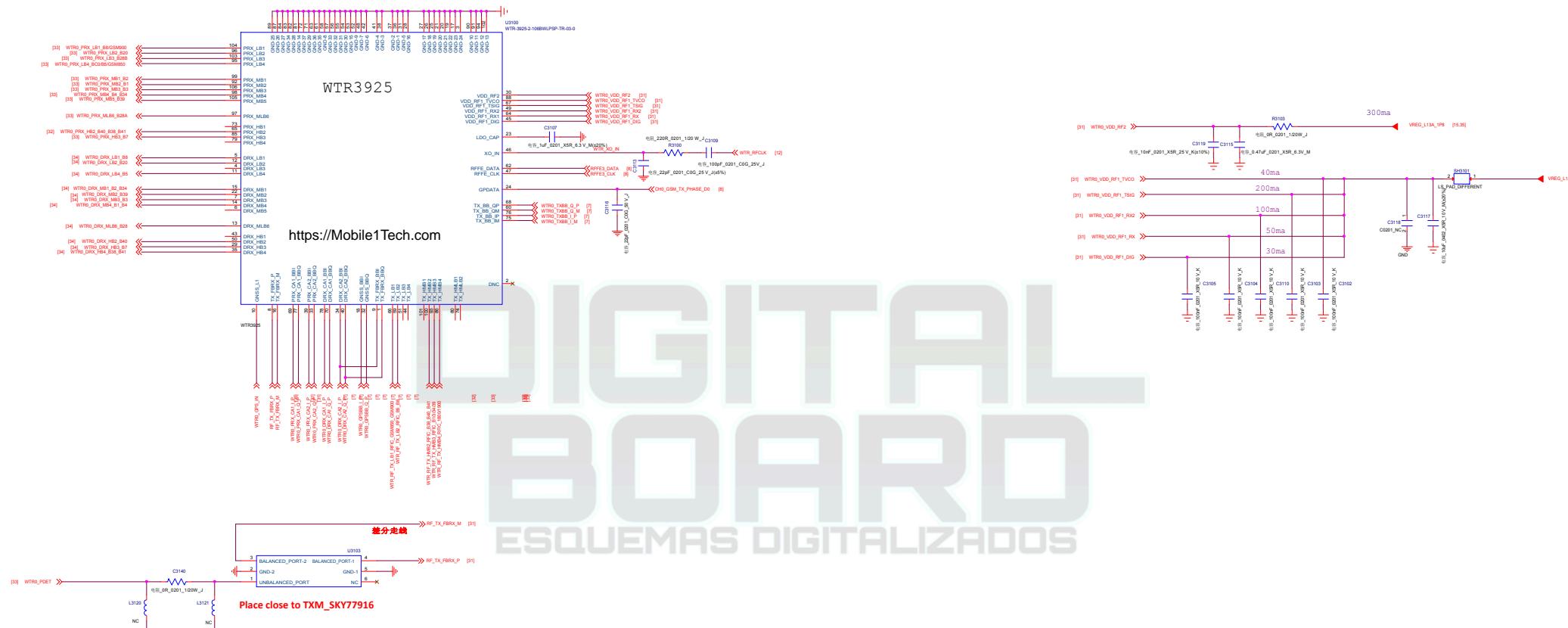
Ground protected separately each lane  
90Ωm Differential impedance



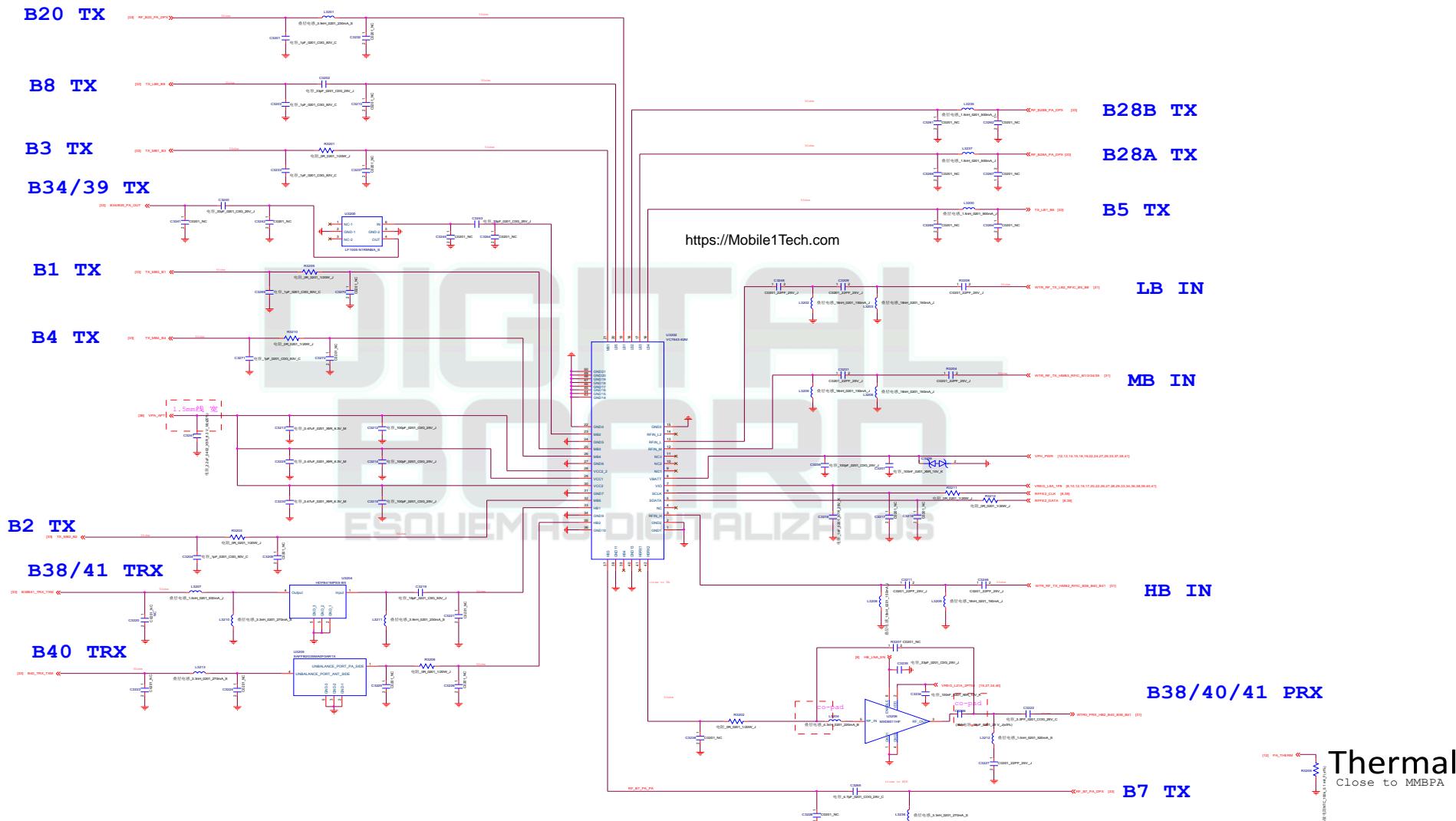
<https://Mobile1Tech.com>

|  |
|--|
| Company: Haegi                               |
| Block Title: SIM_SD_KEY_LINK_BATT            |
| Project: J199_M8_V1                          |
| Date: Friday August 28, 2020 Sheet: 30 of 41 |

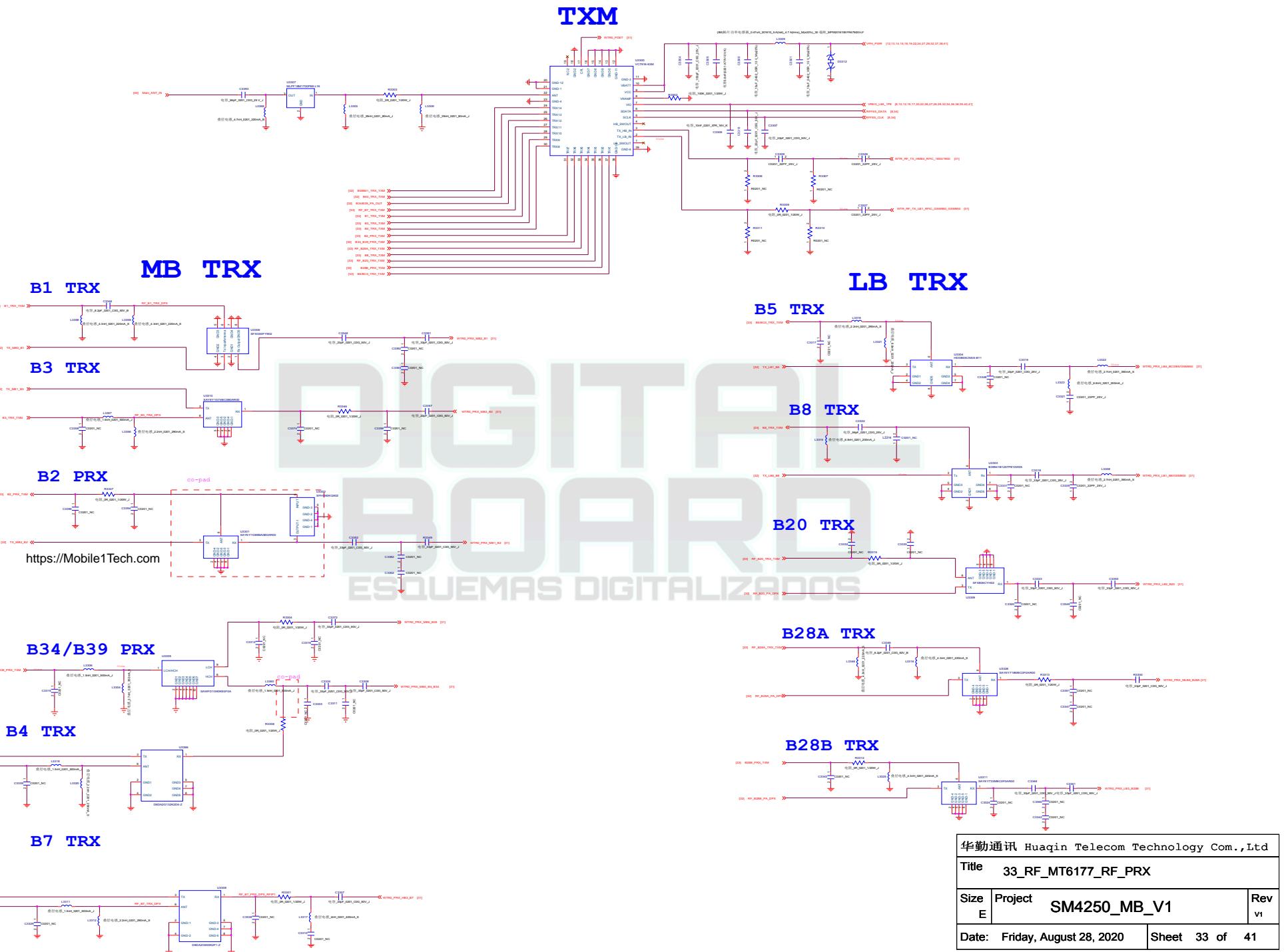
|   |                       |           |                |
|---|-----------------------|-----------|----------------|
| 华勤通讯 Huaqin Telecom Technology Com.,Ltd |                       |           |                |
| Title                                   | 31_RF_SDR425_Pin_Out  |           |                |
| Size<br>D                               | Project<br>Soda_MB_V1 | Rev<br>V1 |                |
| Date: Friday, August 28, 2020           |                       |           | Sheet 31 of 41 |

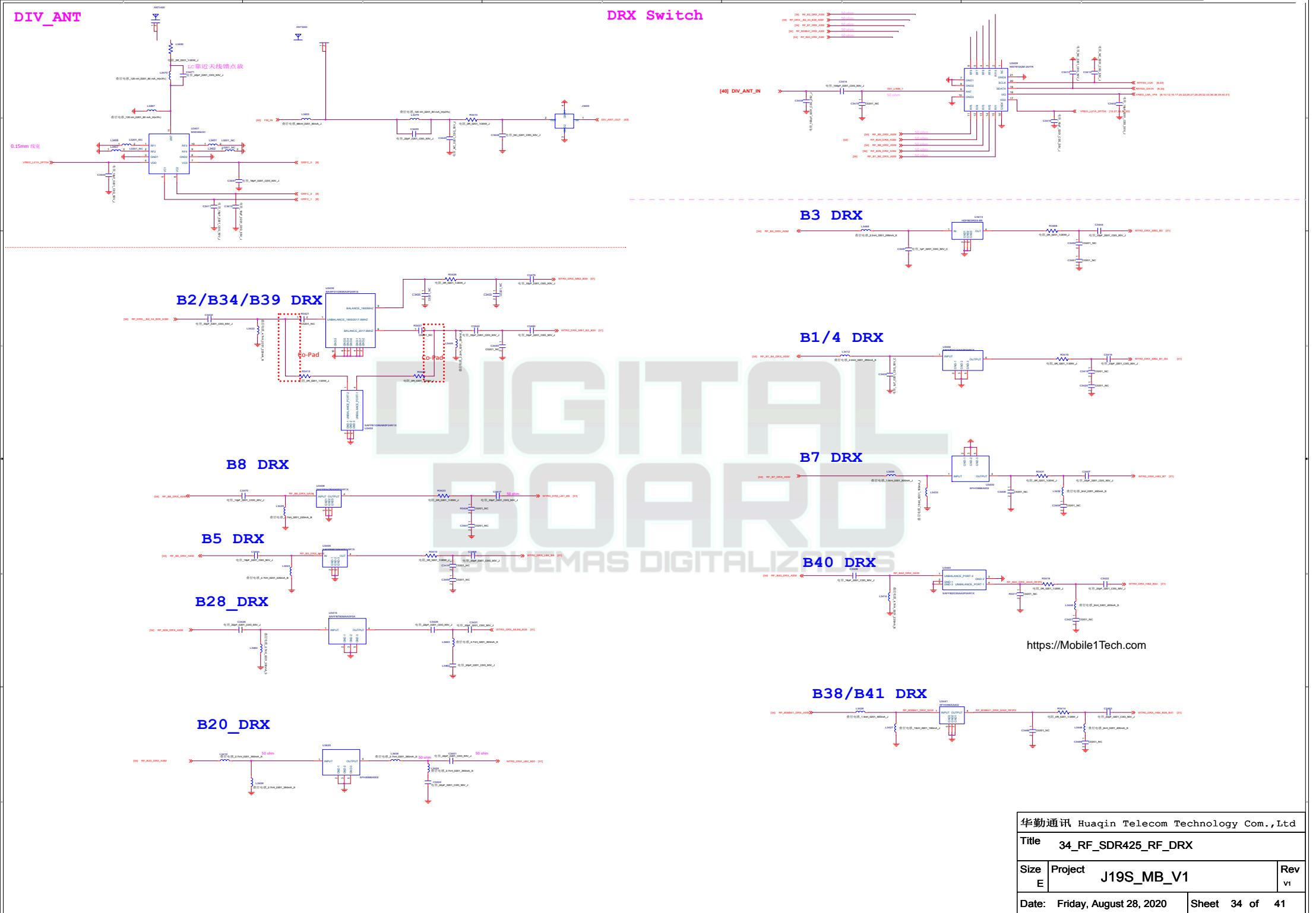


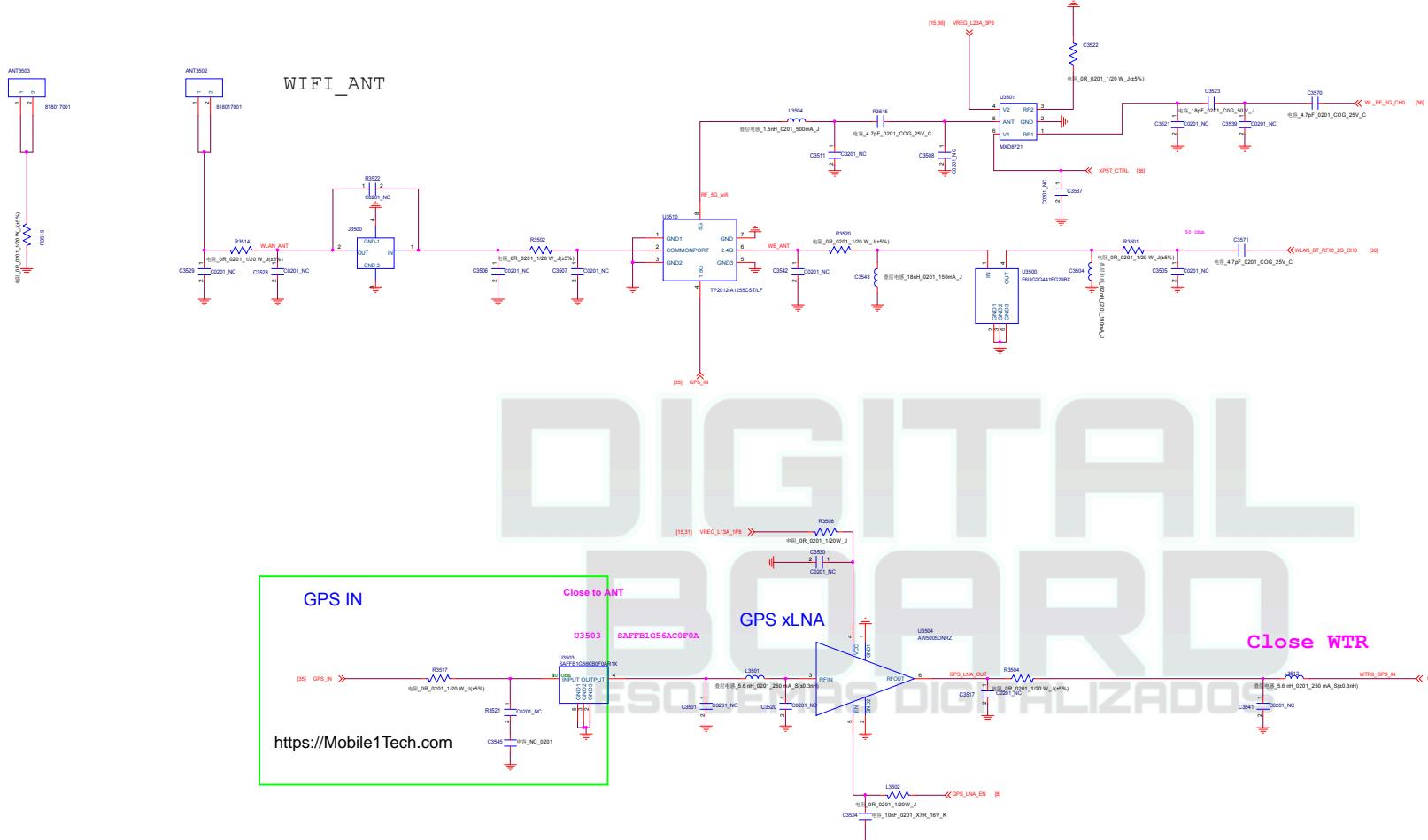
MMMB PA



|   |                         |              |                |
|---|-------------------------|--------------|----------------|
| 华勤通讯 Huaqin Telecom Technology Com.,Ltd |                         |              |                |
| Title                                   | 32_RF_MT6177_RF_TX      |              |                |
| Size<br>E                               | Project                 | SM4250_MB_V1 | Rev<br>v1      |
| Date:                                   | Friday, August 28, 2020 |              | Sheet 32 of 41 |







#### Schematic design notice of "51\_CONNECTIVITY\_CONSYS\_MT6631"

Note 51-1: For R5015 size, please select 0402 size or larger one

Note 51-2: Please refer to MT6765 Baseband design notice for VCN33 LDO selection guide

Note 51-3: If WiFi 5G not support, connect pin 34(WF\_RF\_5G) to GND

Note 51-4: Pin 36 (AVDD28\_FM) must be connected to VCN28 even if FM not support

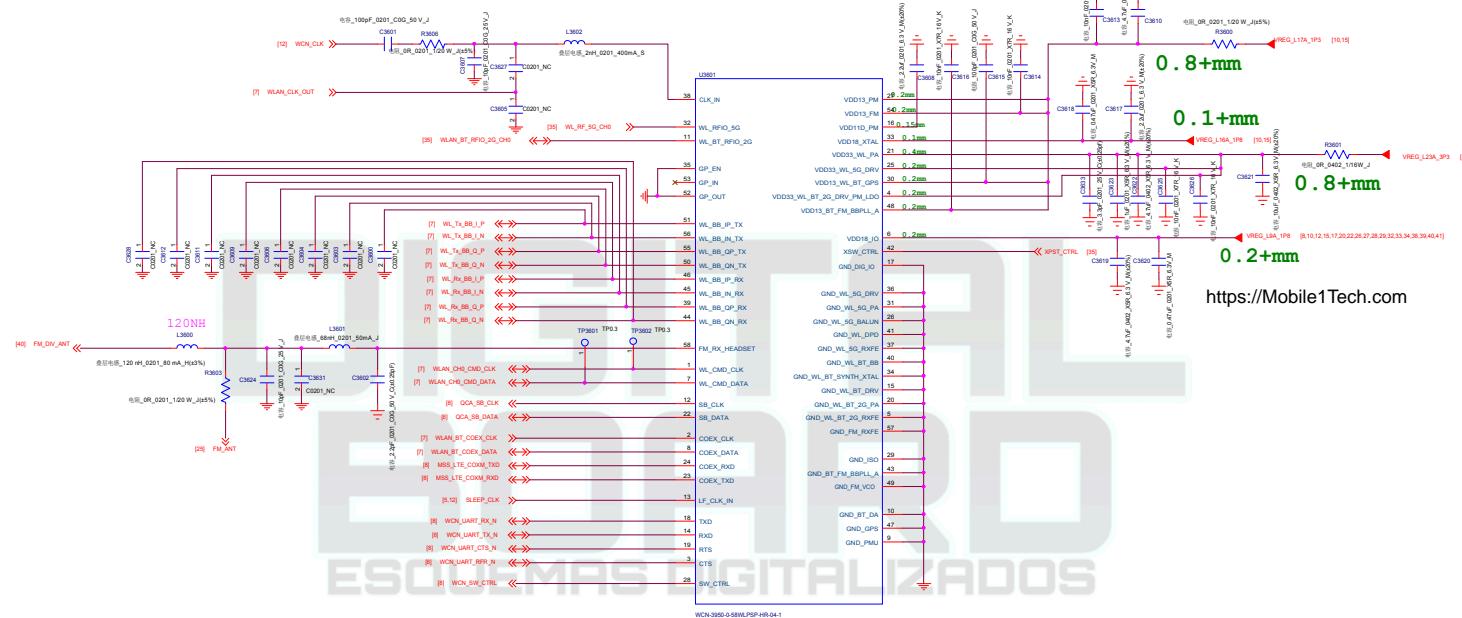
华勤通讯 Huaqin Telecom Technology Com.,Ltd

Title 35\_CONNECTIVITY\_CONSYS\_WCN3950

|        |                    |        |
|--------|--------------------|--------|
| Size D | Project J19S_MB_V1 | Rev V1 |
|--------|--------------------|--------|

Date: Friday, August 28, 2020

Sheet 35 of 41

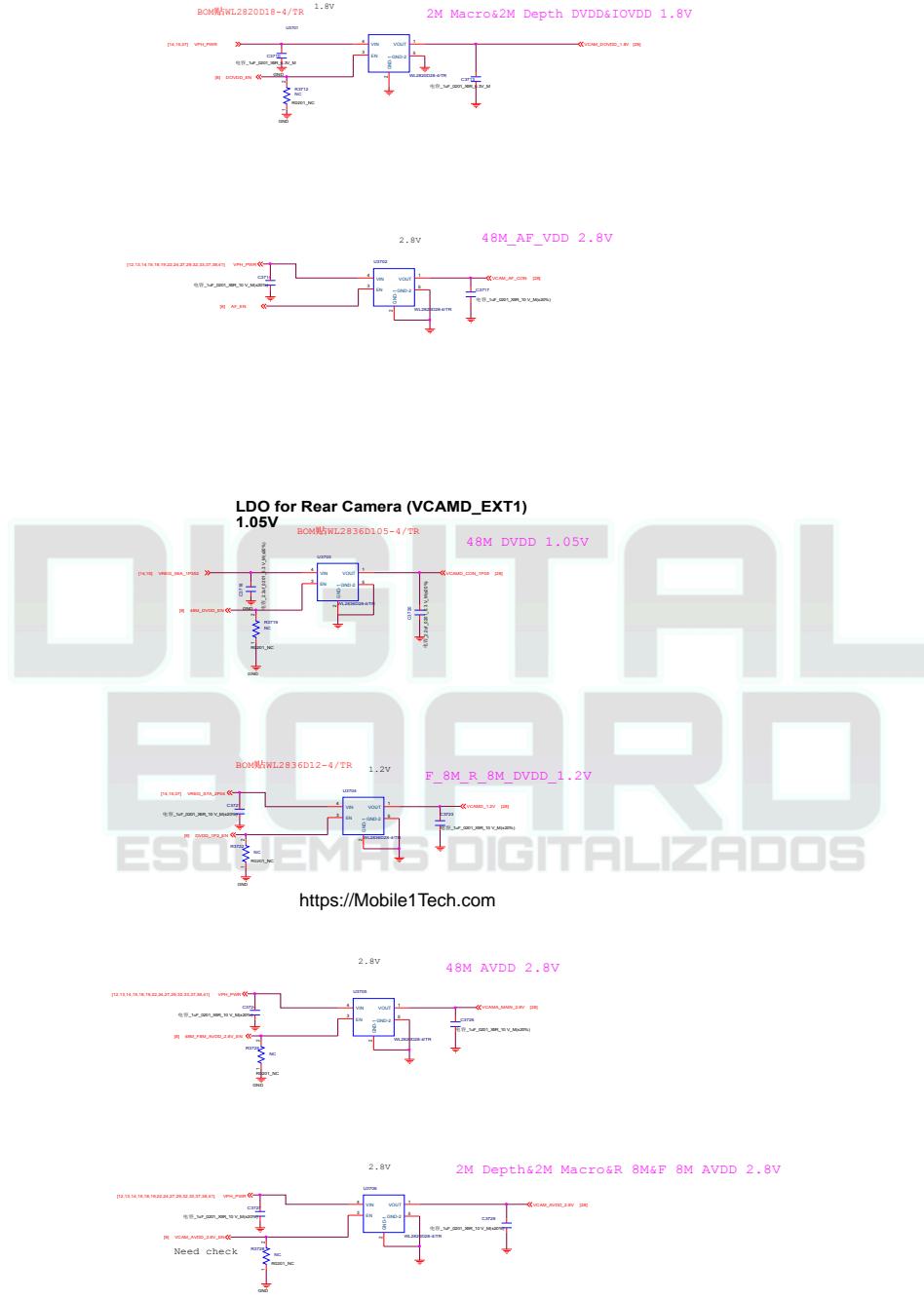


华勤通讯 Huaqin Telecom Technology Com., Ltd

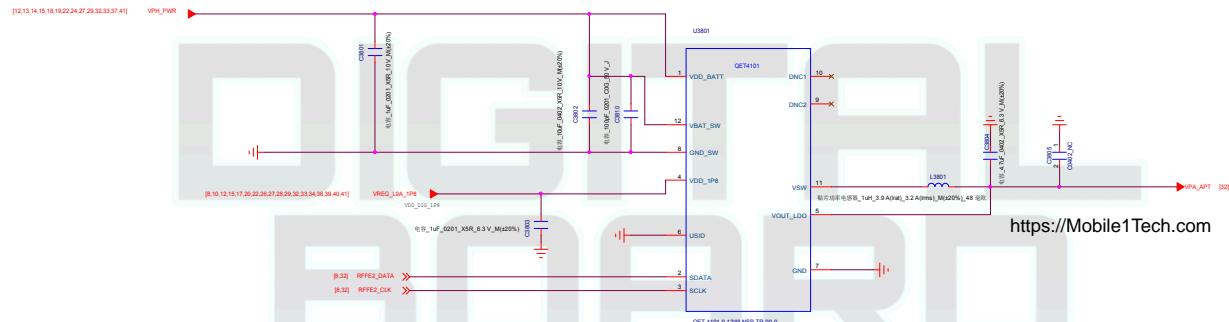
Title 35 CONNECTIVITY CONSYS WCN3950

Size Project J19S\_MB\_V1 Rev  
D

Date: Friday, August 28, 2020

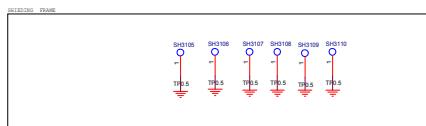


|   |                         |                |
|---|-------------------------|----------------|
| 华勤通讯 Huaqin Telecom Technology Com.,Ltd |                         |                |
| Title                                   | 37_NFC                  |                |
| Size                                    | Project J19S_MB_V1      | Rev            |
| E                                       | V1                      |                |
| Date:                                   | Friday, August 28, 2020 | Sheet 37 of 41 |



<https://Mobile1Tech.com>

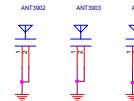
|  |                    |
|--|--------------------|
| 华勤通讯 Huaqin Telecom Technology Com., Ltd |                    |
| Title 38_QET                             |                    |
| Size<br>D                                | Project J19S_MB_V1 |
|  | Rev<br>v1          |



### 螺丝孔



GND

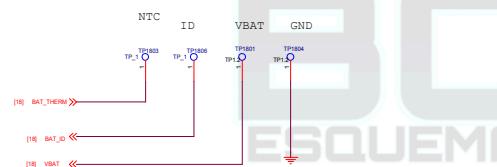


<https://Mobile1Tech.com>

UART DEBUG POINT



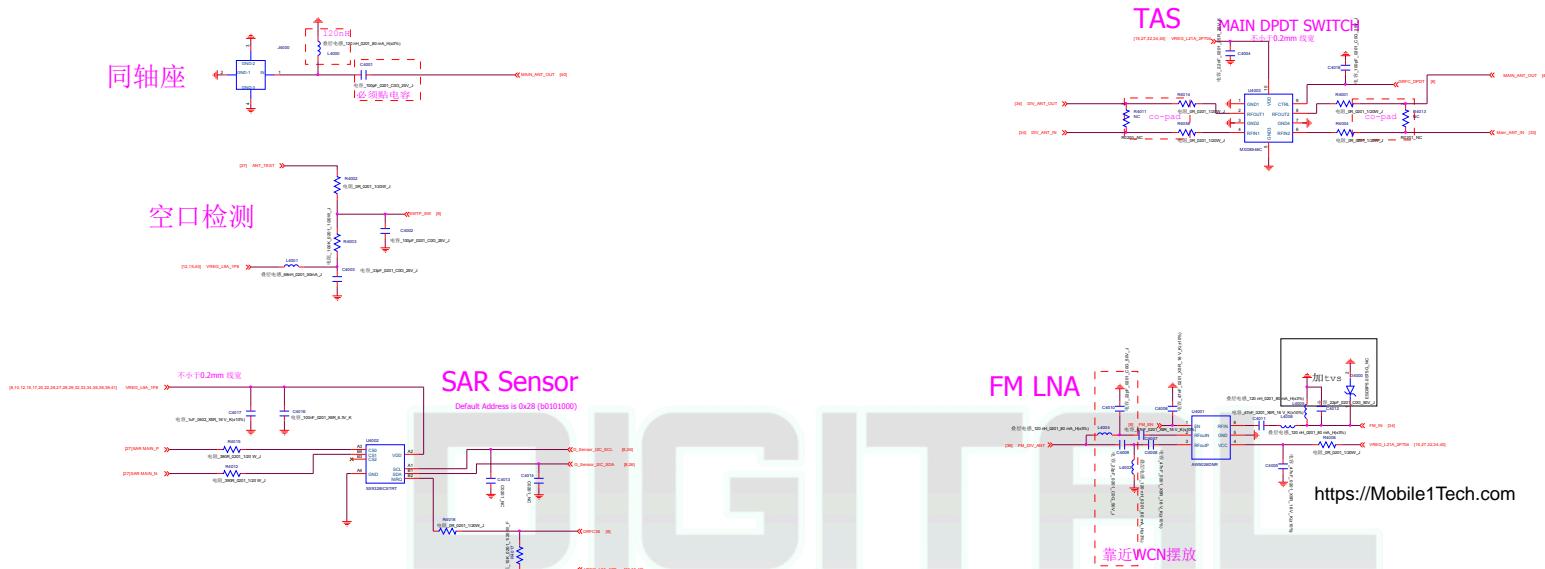
### VBAT TEST POINT



SMT Downlond Mode

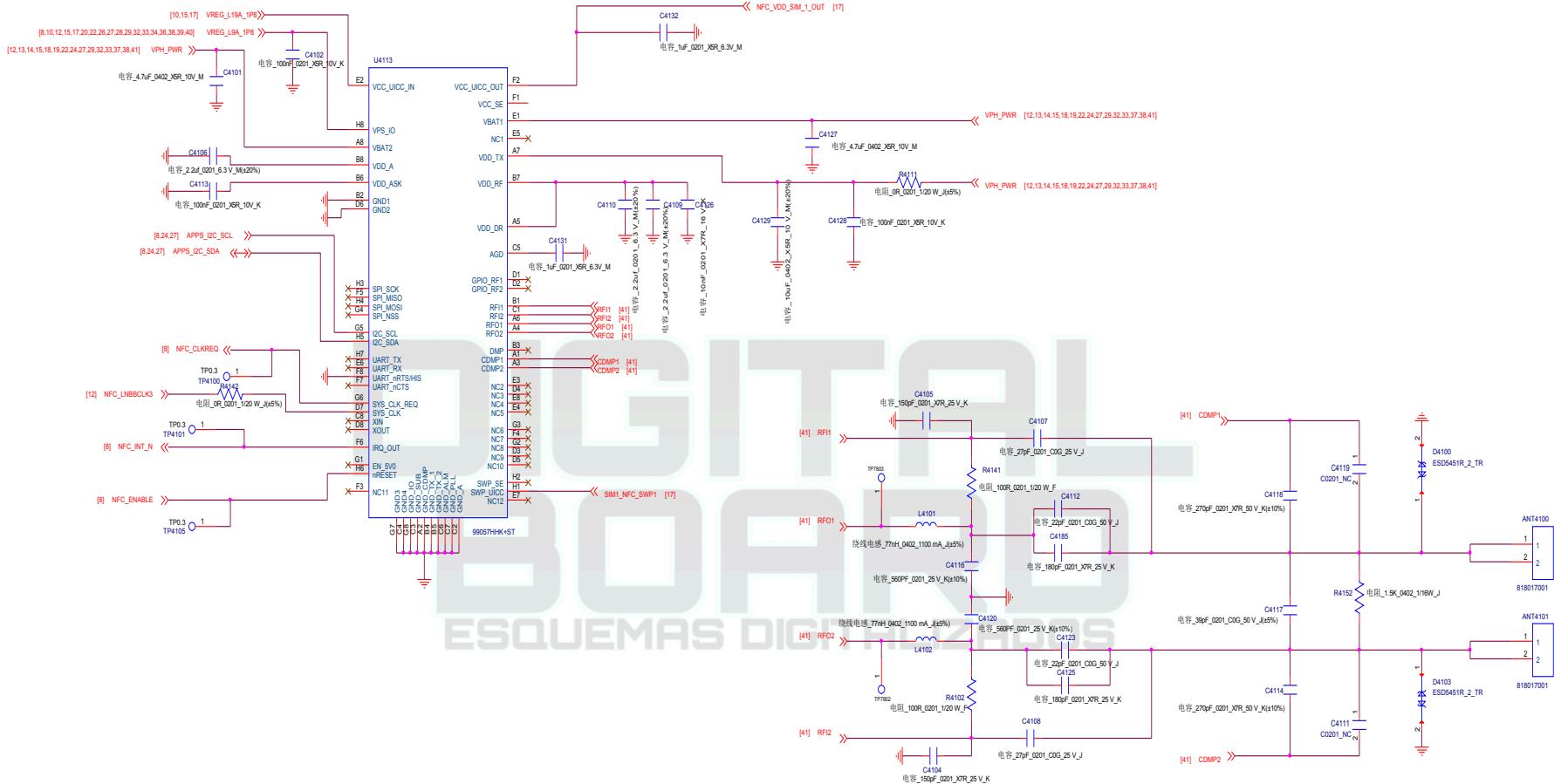


|                  |                         |
|------------------|-------------------------|
| Company: Huacjin |                         |
| Block Title      | Test Points             |
| Project          | J195_MB_V1              |
| Date:            | Friday, August 28, 2009 |
| Sheet            | 39 of 41                |



华勤通讯 Huaqin Telecom Technology Com.,Ltd

Title 40\_ASIV



<https://Mobile1Tech.com>

|   |                         |            |                |
|---|-------------------------|------------|----------------|
| 华勤通讯 Huaqin Telecom Technology Com.,Ltd |                         |            |                |
| Title                                   | 41_NFC                  |            |                |
| Size                                    | Project                 | J19S_MB_V1 | Rev            |
| E                                       |                         |            | v1             |
| Date:                                   | Friday, August 28, 2020 |            | Sheet 41 of 41 |