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- 14. HDMI/ATSC
- 15. CAMERA/G\_SENSOR/KEY/COMP/IR
- 16. WIFI/3G
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### PCB WIRE WIDTH INDICATE

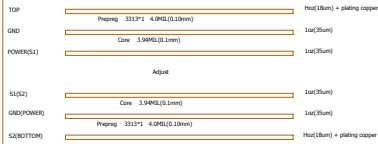


- above 100 miles
- above 80 miles
- above 50 miles
- above 30 miles
- above 25 miles
- above 16 miles
- above 8 miles

No indicate

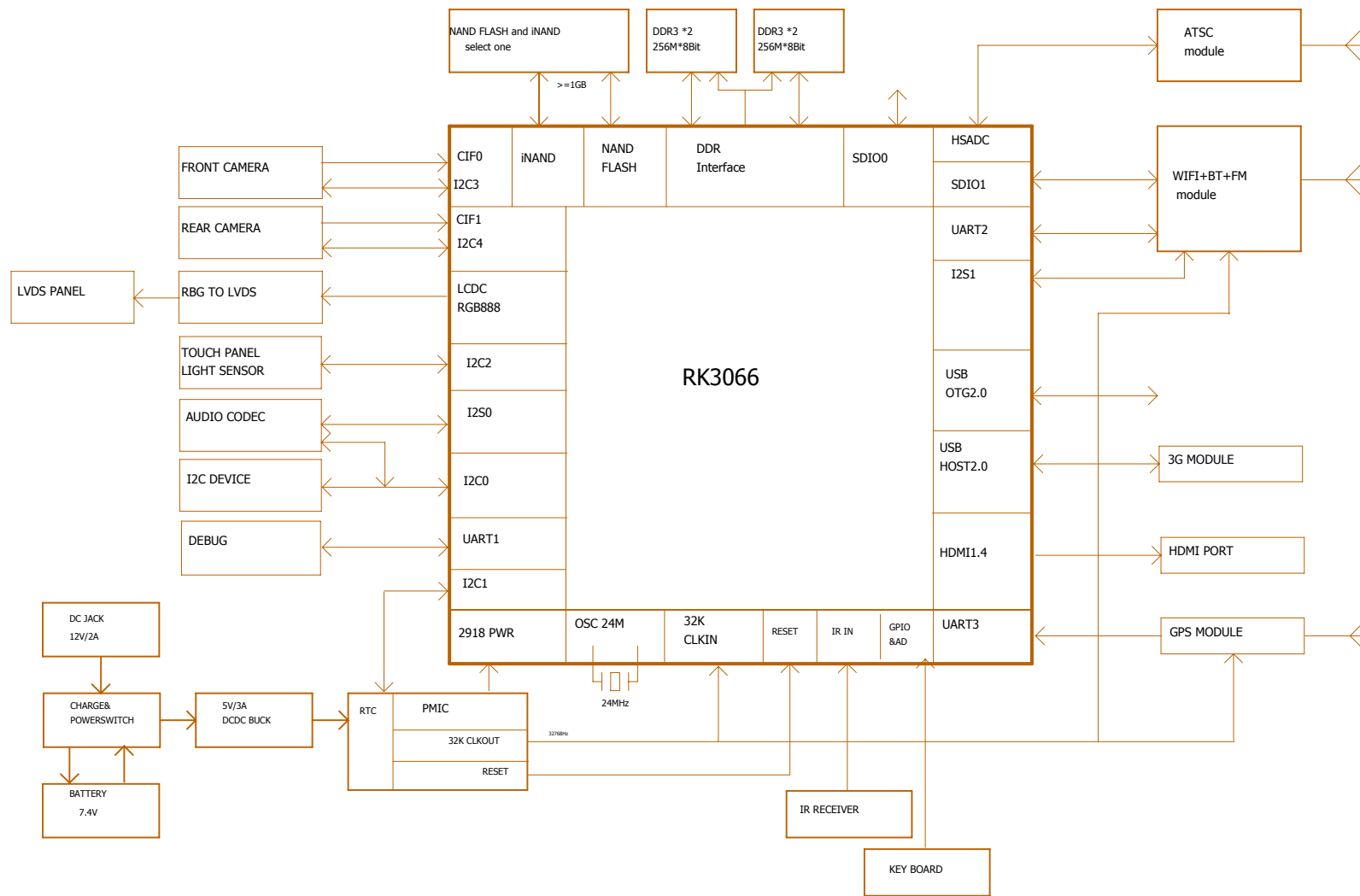
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|--|-----------------|---------|-----------|-------|---|
|  | 5               | 4       | 3         | 2     | 1 |
|  | REVISION RECORD |         |           |       |   |
|  | LTR             | ECO NO: | APPROVED: | DATE: |   |
|  |                 |         |           |       |   |
|  |                 |         |           |       |   |
|  |                 |         |           |       |   |

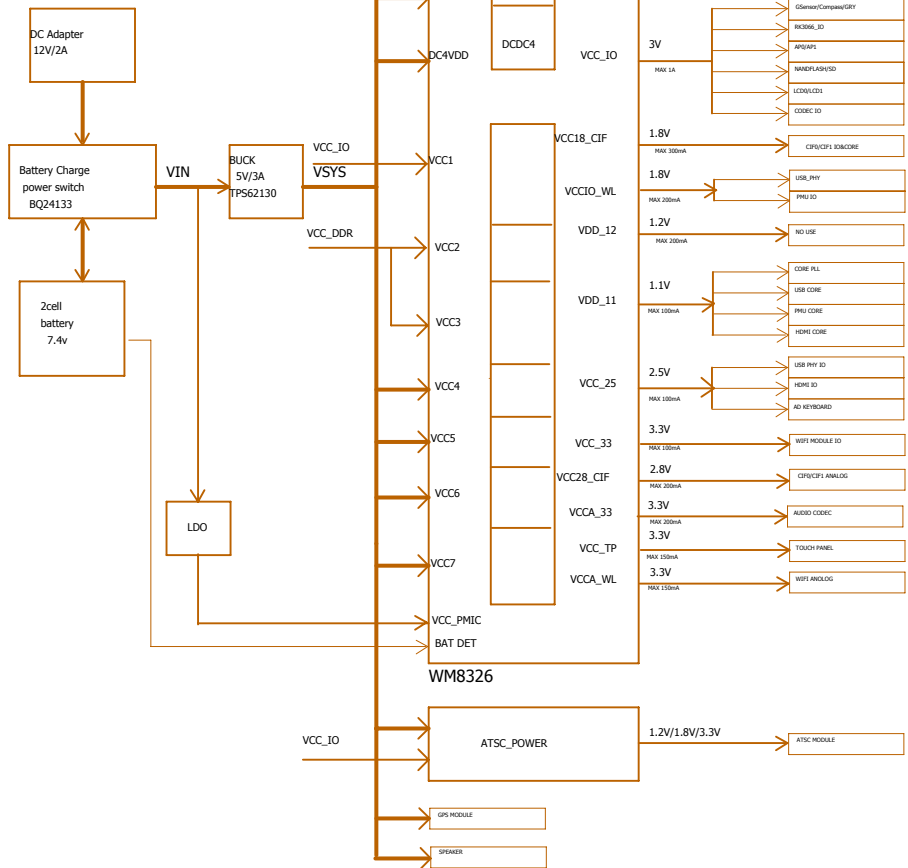
### 6 LAYERS PCB STACK



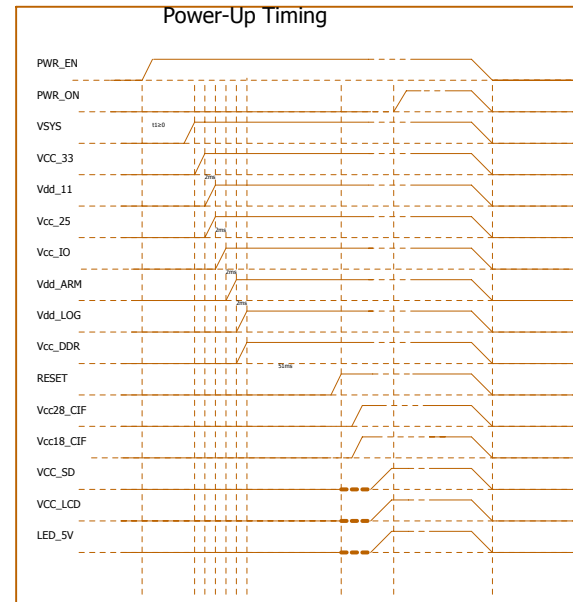
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|------------------|--|--------|--|----------|-----------|-------------|------|
| DRAWN:           |  | DATED: |  | COMPANY: |           |             |      |
| CHECKED:         |  | DATED: |  | TITLE:   |           |             |      |
| QUALITY CONTROL: |  | DATED: |  | CODE:    | SIZE:     | DRAWING NO: | REV: |
| RELEASED:        |  | DATED: |  | A2       |           |             |      |
|                  |  |        |  | SCALE:   | SHEET: 4F | 16          |      |

| Version | Date     | Author | Change Note   | Approved |
|---------|----------|--------|---------------|----------|
| V1.0    | 20120206 | HCH    | First edictor |          |
|         |          |        |               |          |

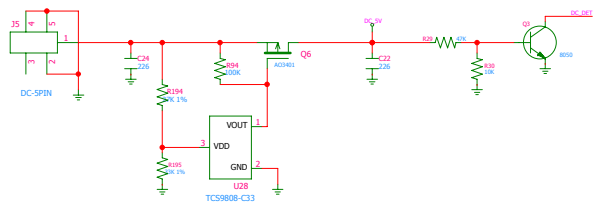




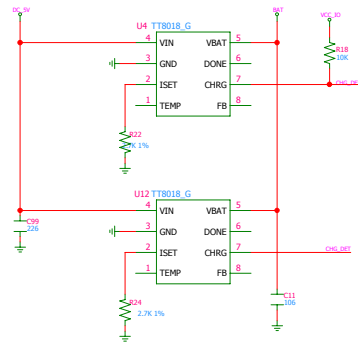
POWER DIAGRAM



Note: Please use 5V/2A DC  
DC\_IN



## Charger

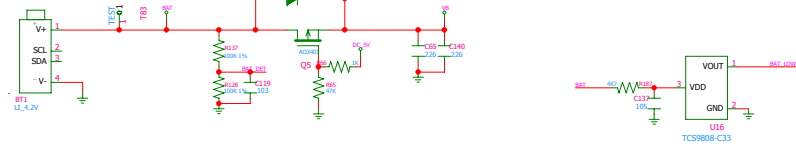


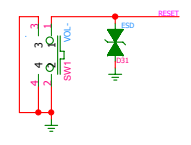
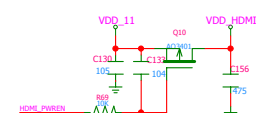
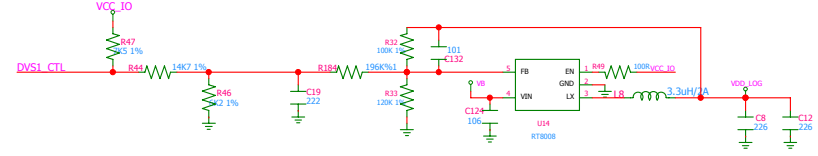
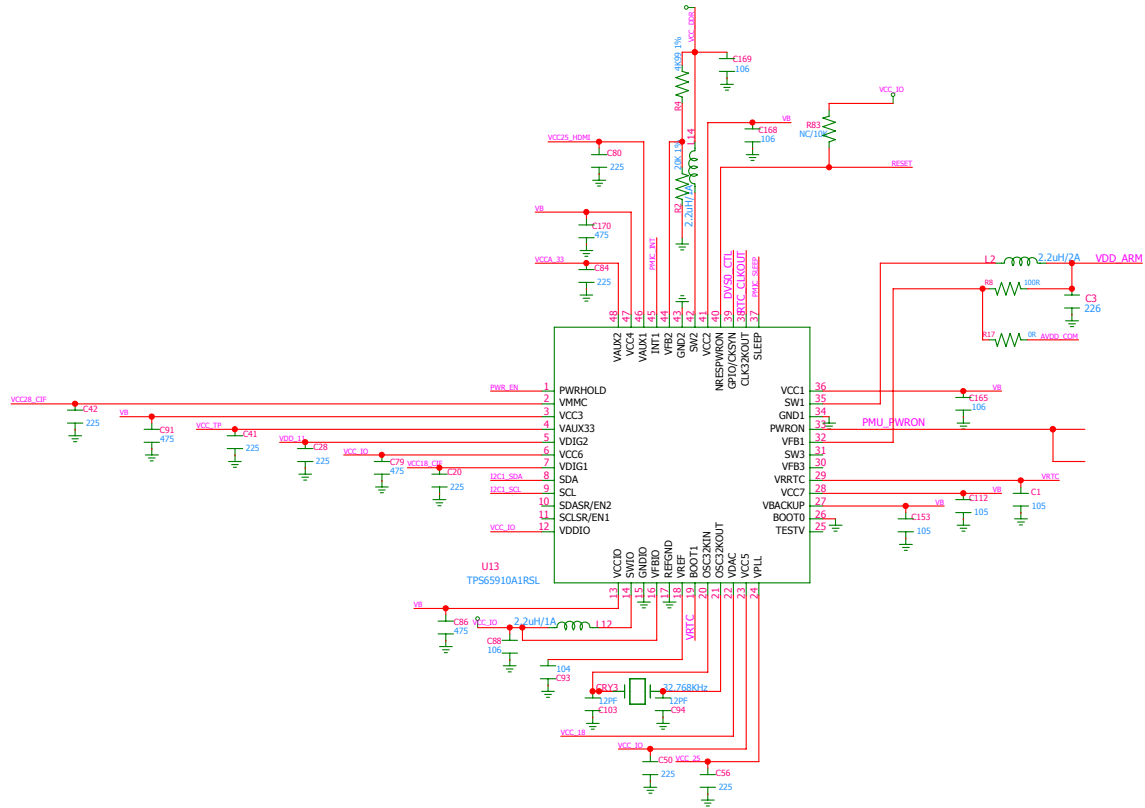
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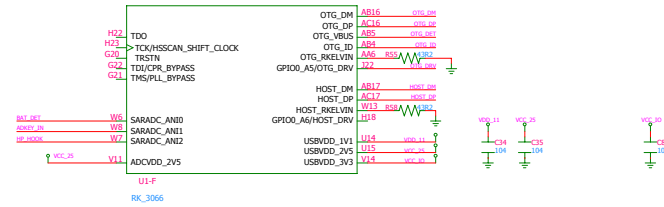
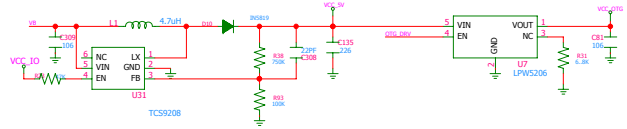


## BATTERY

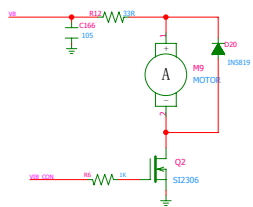
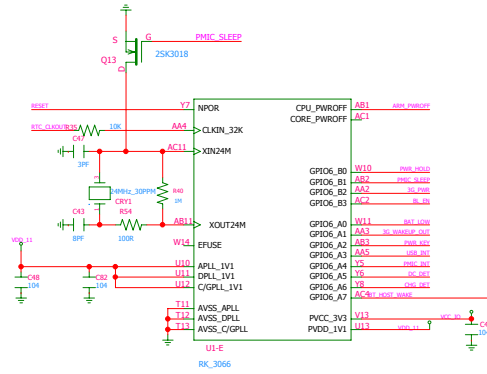
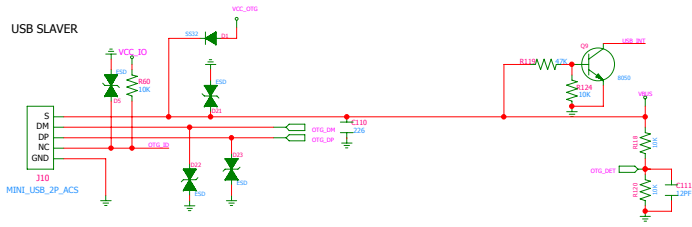
Note:  
If the battery voltage lower than 3.3V,the power will be closed.





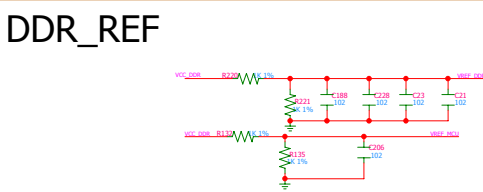
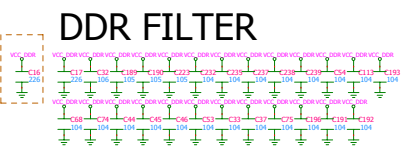
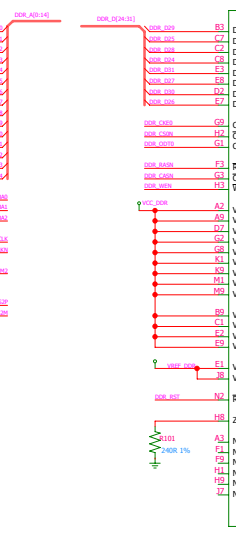
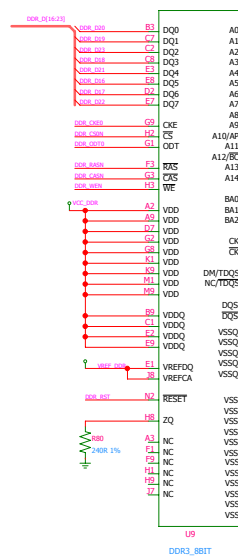
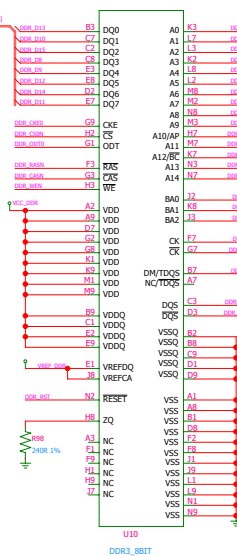
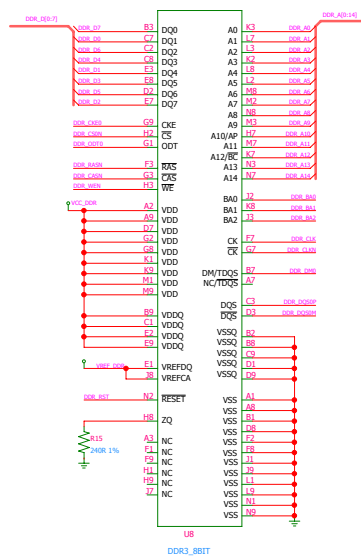
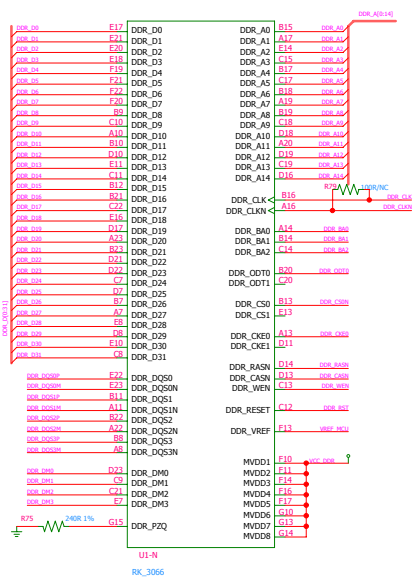


USB SLAVER



VIBRATION

|                             |                |
|-----------------------------|----------------|
| COMPANY: <b>ROCK_CHIP</b>   |                |
| Title: RK3066_2CELL_REF_SCH |                |
| File: USB_OTG/VIB           | REV: V1.0      |
| Create Date: 2012_02_07     | Page Num: 7    |
| Modify Date:                | Page Total: 17 |

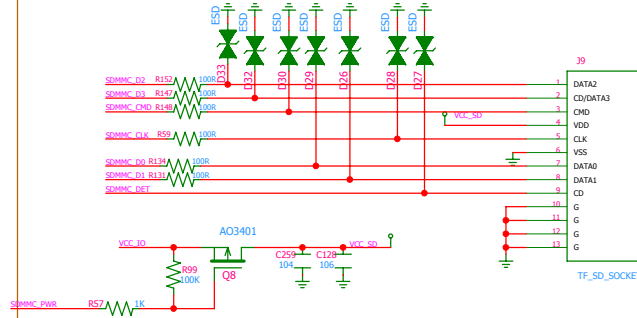




# TF CARD

|                      |      |             |
|----------------------|------|-------------|
| GPIO3_B0/SDMMC_CLK0  | U122 | SDMMC_CLK   |
| GPIO3_B1/SDMMC_CMD   | P22  | SDMMC_CMD   |
| GPIO3_B2/SDMMC_D0    | M21  | SDMMC_D0    |
| GPIO3_B3/SDMMC_D1    | U23  | SDMMC_D1    |
| GPIO3_B4/SDMMC_D2    | T21  | SDMMC_D2    |
| GPIO3_B5/SDMMC_D3    | K20  | SDMMC_D3    |
| GPIO3_B6/SDMMC_DET   | L20  | SDMMC_DET   |
| GPIO3_B7/SDMMC_WP    | N19  |             |
| GPIO3_A7/SDMMC_PWREN | V22  | SDMMC_PWREN |
| GPIO3_A6/SDMMC_RSTNO | W23  | HEMI_PWREN  |

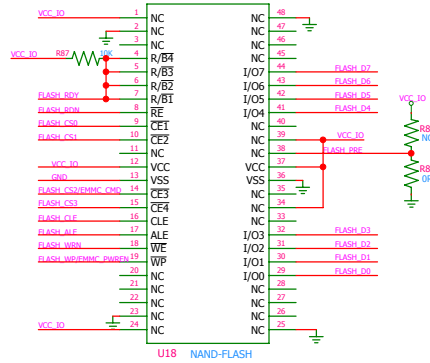
U1-H  
RK\_3066



# FLASH

|                              |      |                     |
|------------------------------|------|---------------------|
| FLASH_D0/EMMC_D0             | D18  | FLASH_D0            |
| FLASH_D1/EMMC_D1             | AA21 | FLASH_D1            |
| FLASH_D2/EMMC_D2             | AB21 | FLASH_D2            |
| FLASH_D3/EMMC_D3             | W22  | FLASH_D3            |
| FLASH_D4/EMMC_D4             | V20  | FLASH_D4            |
| FLASH_D5/EMMC_D5             | V20  | FLASH_D5            |
| FLASH_D6/EMMC_D6             | AA22 | FLASH_D6            |
| FLASH_D7/EMMC_D7             | AB22 | FLASH_D7            |
| FLASH_RDY                    | U20  | FLASH_RDY           |
| FLASH_ALE                    | T20  | FLASH_ALE           |
| FLASH_CLE                    | AC22 | FLASH_CLE           |
| FLASH_RDN                    | N20  | FLASH_RDN           |
| FLASH_WRN                    | AC23 | FLASH_WRN           |
| FLASH_WP/EMMC_PWREN          | AB23 | FLASH_WP/EMMC_PWREN |
| FLASH_CS0                    | Y23  | FLASH_CS0           |
| GPIO4_B0/FLASH_CS1           | N18  | FLASH_CS1           |
| GPIO4_B1/FLASH_CS2/EMMC_CMD  | J21  | FLASH_CS2/EMMC_CMD  |
| GPIO4_B2/FLASH_CS3/EMMC_RST  | P21  | FLASH_CS3           |
| GPIO3_D7/FLASH_DQ5/EMMC_CLK0 | N21  | FLASH_DQ5/EMMC_CLK0 |
| FLASH_VCC                    | N17  | VCC_IO              |

U1-K  
RK\_3066



NOTE:  
General Flash: 38pin:0;  
Intel Toshiba Flash: 38pin:1

## ROCK-CHIP

|                                    |                |
|------------------------------------|----------------|
| Title: RK2918_REF_10               |                |
| File: MEMORY                       | REV:           |
| Create Date: December 18, 2010     | Page Num: 8    |
| Modify Date: Tuesday, May 03, 2011 | Page Total: 17 |

```

GPI04_C0/SMC_D0/TRACE_D0  J17  HEAR_DET
GPI04_C1/SMC_D1/TRACE_D1  J17  HEAR_DET
GPI04_C2/SMC_D2/TRACE_D2  J16  HEAR_DET
GPI04_C3/SMC_D3/TRACE_D3  J19  GPI04_C3
GPI04_C4/SMC_D4/TRACE_D4  J17  HEAR_DET
GPI04_C5/SMC_D5/TRACE_D5  J19  HEAR_DET
GPI04_C6/SMC_D6/TRACE_D6  J19  HEAR_DET
GPI04_C7/SMC_D7/TRACE_D7  J18  HEAR_DET
GPI04_C8/SMC_D8/TRACE_D8  J18  HEAR_DET
GPI04_C9/SMC_D9/TRACE_D9  J18  HEAR_DET
GPI04_D2/SMC_D10/TRACE_D10  J18  HEAR_DET
GPI04_D3/SMC_D11/TRACE_D11  J18  HEAR_DET
GPI04_D4/SMC_D12/TRACE_D12  J18  HEAR_DET
GPI04_D5/SMC_D13/TRACE_D13  J18  HEAR_DET
GPI04_D6/SMC_D14/TRACE_D14  J20  HEAR_DET
GPI04_D7/SMC_D15/TRACE_D15  J20  HEAR_DET

GPI00_C6/SMC_A2/TRACE_CLK  J18  HEAR_DET
GPI00_C7/SMC_A3/TRACE_CTL  J20  HEAR_DET

GPI00_D5/I2S2_SDO/SMC_A1  J21  HEAR_DET
GPI00_D4/I2S2_SDI/SMC_A0  J21  HEAR_DET
GPI00_D3/I2S2_LRCK_TX/SMC_A3V  J21  HEAR_DET
GPI00_D2/I2S2_LRCK_RX/SMC_OEN  J21  HEAR_DET
GPI00_D0/I2S2_CLK/SMC_CSND  J19  HEAR_DET
GPI00_D1/I2S2_SCLK/SMC_WEN  J20  HEAR_DET

```



```

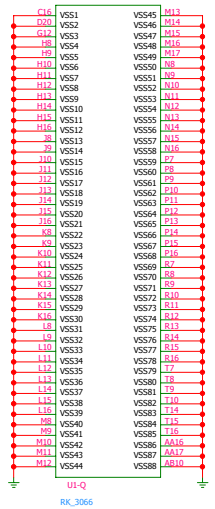
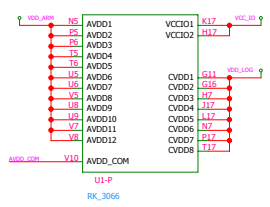
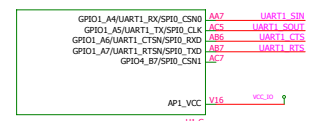
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GPI02_D6/I2C1_SDA  J21  HEAR_DET
GPI02_D7/I2C1_SCL  J21  HEAR_DET
GPI03_A0/I2C2_SDA  J21  HEAR_DET
GPI03_A1/I2C2_SCL  J19  HEAR_DET

GPI01_B0/UART2_RX  J07  HEAR_DET
GPI01_B1/UART2_TX  J08  HEAR_DET

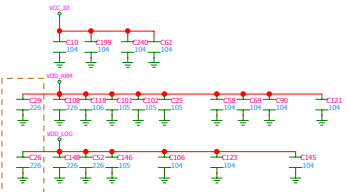
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GPI03_D4/UART3_TX  J19  HEAR_DET
GPI03_D6/UART3_RTS  J18  HEAR_DET
GPI03_D5/UART3_CTS  J18  HEAR_DET

GPI00_A3/PWM3  J11  HEAR_DET
GPI00_A4/PWM1  J01  HEAR_DET
GPI00_D6/PWM2  J20  HEAR_DET
GPI00_D7/PWM3  J21  HEAR_DET
GPI06_B4  G23  HEAR_DET

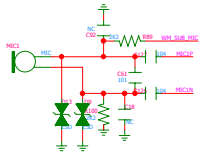
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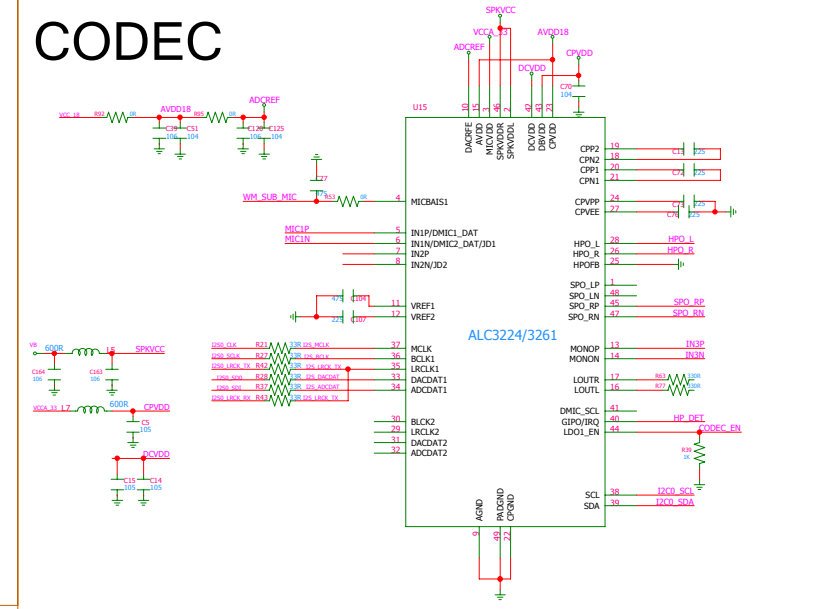
# RK2918 FILTER



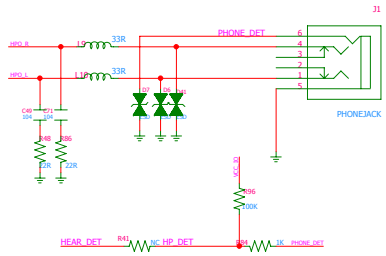
# MIC



# CODEC



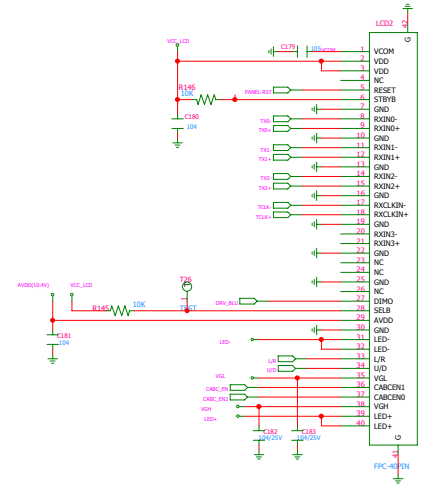
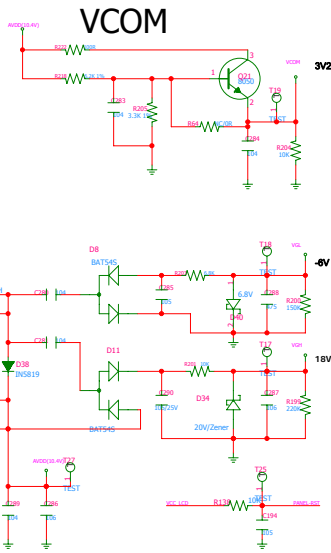
# HEADPHONE



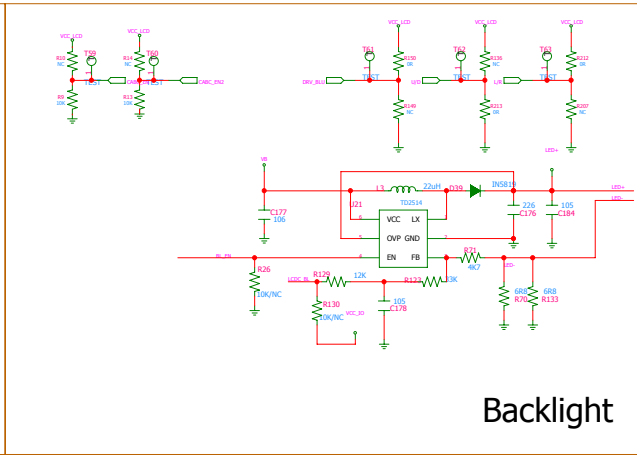
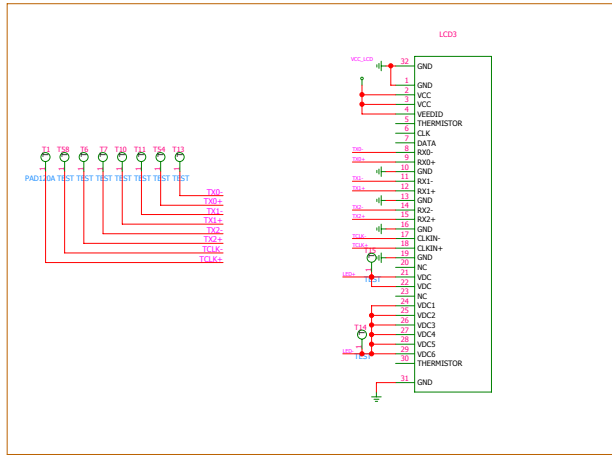
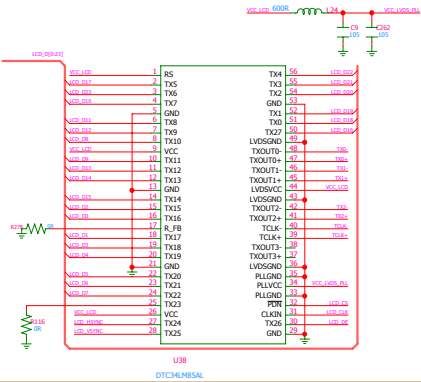
|                       |     |              |
|-----------------------|-----|--------------|
| GPIO0_A7/1250_S0X     | L21 | 1250_S0X     |
| GPIO0_B0/1250_CLK     | L22 | 1250_CLK     |
| GPIO0_B1/1250_SCLK    | L23 | 1250_SCLK    |
| GPIO0_B2/1250_LRCK_RX | L24 | 1250_LRCK_RX |
| GPIO0_B3/1250_LRCK_TX | L25 | 1250_LRCK_TX |
| GPIO0_B4/1250_D0      | L26 | 1250_D0      |
| GPIO0_B5/1250_D1      | L27 | 1250_D1      |
| GPIO0_B6/1250_D2      | L28 | 1250_D2      |
| GPIO0_B7/1250_D3      | L29 | 1250_D3      |
| GPIO1_B2/SPODF_TX     | L32 |              |

U1-L  
RK\_3066

# LCD

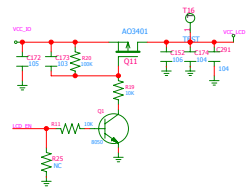
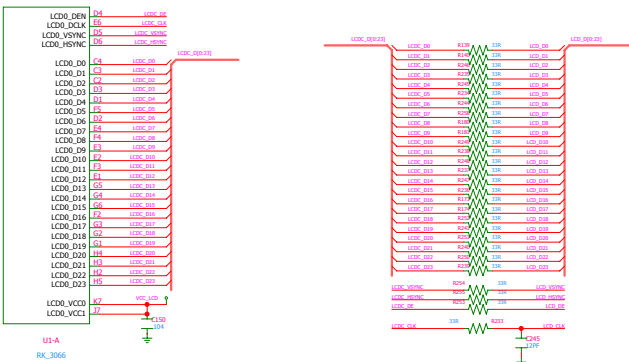


# TTL TO MINI LVDS



# Backlight

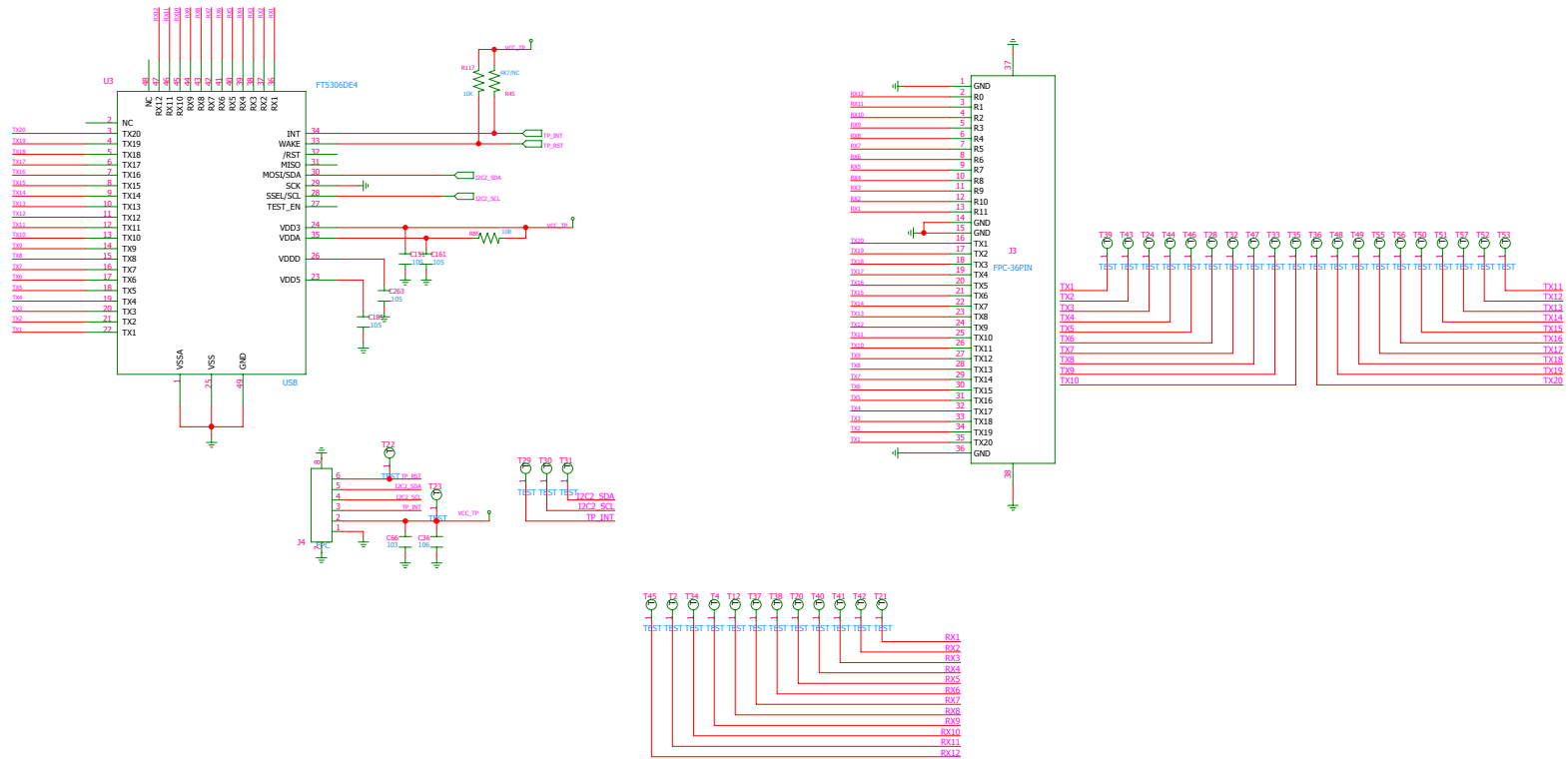
# LCD\_PWR



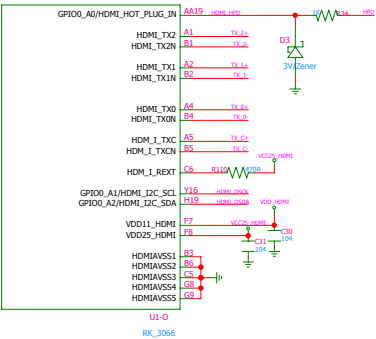
Correspondence between LCDC DATA and RGB

|          |    |          |    |
|----------|----|----------|----|
| LCDC_D0  | B0 | LCDC_D12 | G4 |
| LCDC_D1  | B1 | LCDC_D13 | G5 |
| LCDC_D2  | B2 | LCDC_D14 | G6 |
| LCDC_D3  | B3 | LCDC_D15 | G7 |
| LCDC_D4  | B4 | LCDC_D16 | R0 |
| LCDC_D5  | B5 | LCDC_D17 | R1 |
| LCDC_D6  | B6 | LCDC_D18 | R2 |
| LCDC_D7  | B7 | LCDC_D19 | R3 |
| LCDC_D8  | G0 | LCDC_D20 | R4 |
| LCDC_D9  | G1 | LCDC_D21 | R5 |
| LCDC_D10 | G2 | LCDC_D22 | R6 |
| LCDC_D11 | G3 | LCDC_D23 | R7 |

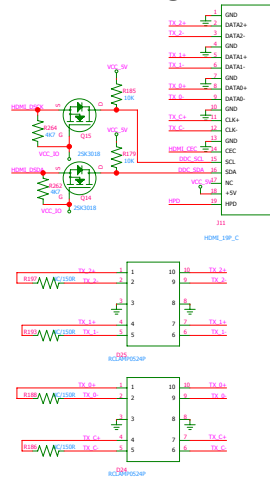
TP主流是：汇顶和敦泰



# HDMI

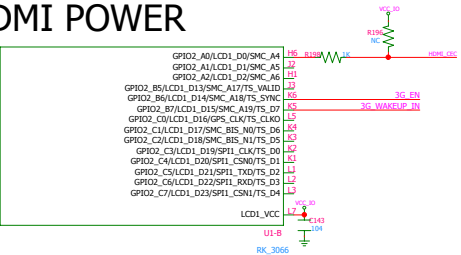


# HDMI INTERFACE

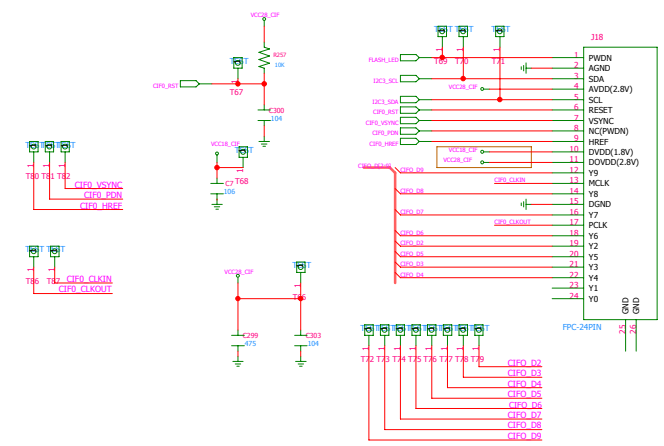
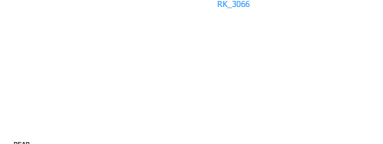
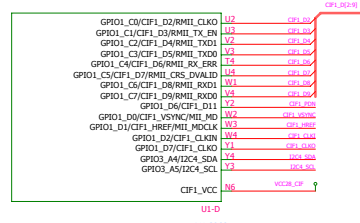
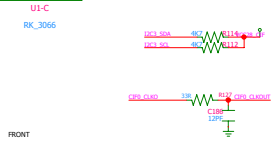
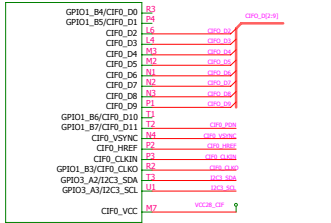


Note:  
 1. ESD components must be as close to the HDMI socket as possible;  
 The equivalent capacitance is not greater than 5pF.

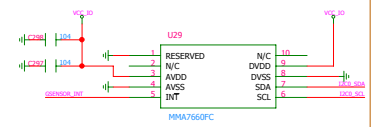
# HDMI POWER



# CAMERA

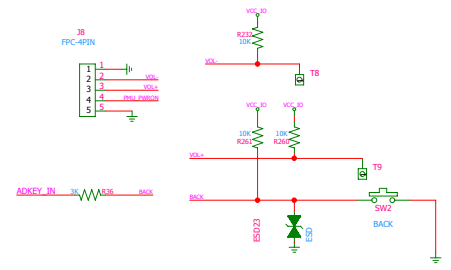


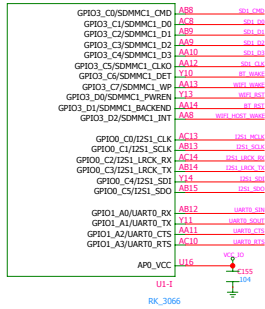
## 3D G-Sensor



Note:  
The first pin of MMA8452Q must be place on the lower left corner of PCB.

## KEY

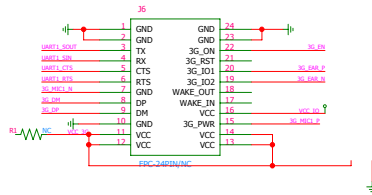
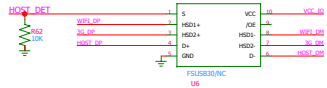




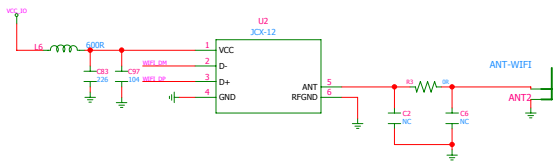
# WIFI



SEL L: WIFI  
SEL H: 3G



## WIFI MODULE



Note:  
1.RF traces need 50R impedance .



[www.s-manuals.com](http://www.s-manuals.com)