

Schematics Index:

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| Revision | Description                                            | Date       | Drawn | Checked |
|----------|--------------------------------------------------------|------------|-------|---------|
| Ver 1.0  | 1.增加IDRAM 供电1.8V 说明<br>2.增加V851&V851SE 不同档位供电说明 (LDOA) | 2022-03-25 | ZQ    |         |

|                                                                                       |                  |                                     |        |
|---------------------------------------------------------------------------------------|------------------|-------------------------------------|--------|
|  |                  | <b>AllWinner Technology Co.,Ltd</b> |        |
| Design Name                                                                           |                  | V851S&V851SE-STD                    |        |
| Size                                                                                  | Page Name        | Rev                                 |        |
| A3                                                                                    | REVISION HISTORY |                                     |        |
| Date: Monday, May 16, 2022                                                            |                  | Sheet                               | 1 of 9 |

A



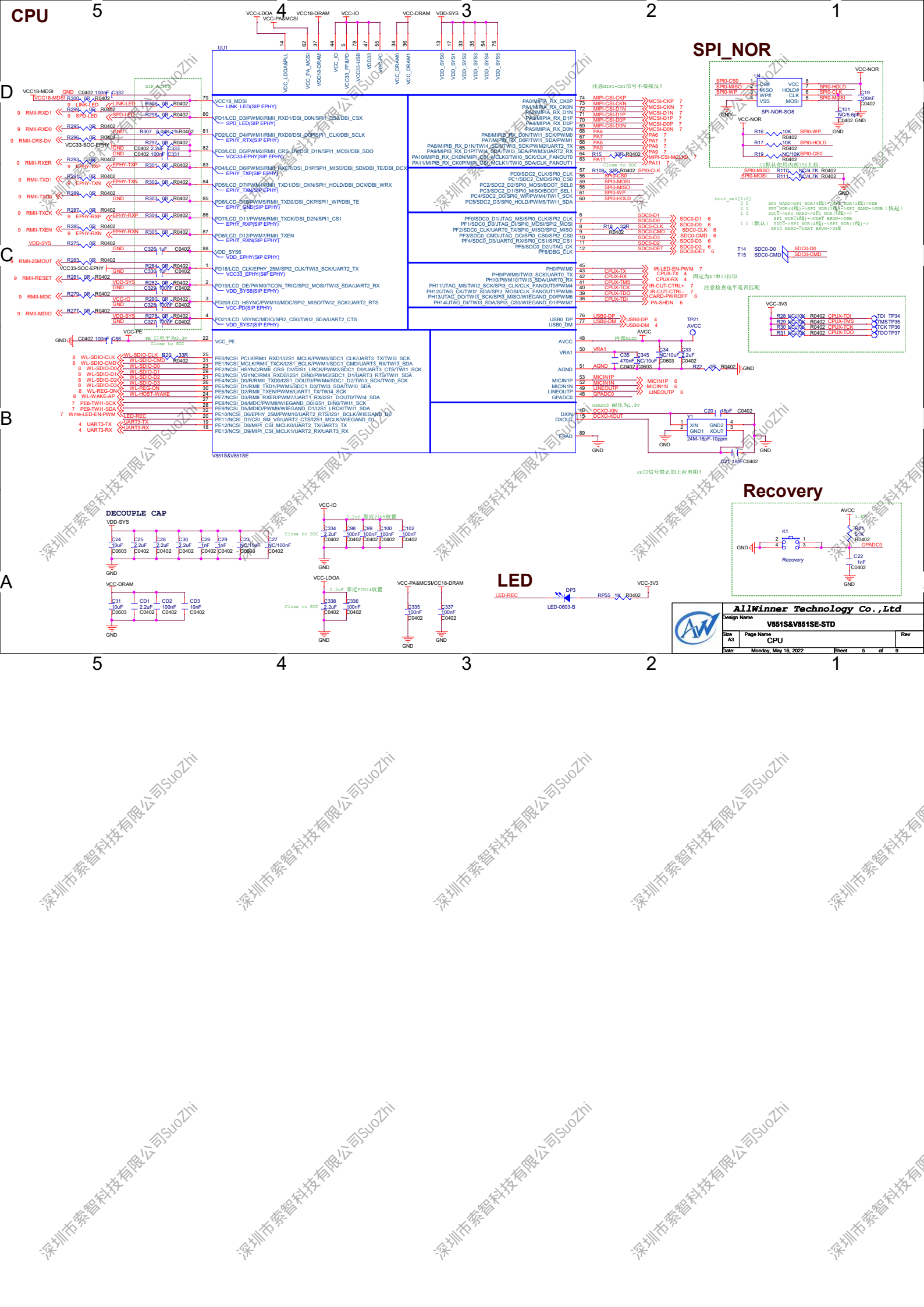
|       |                       |       |        |
|-------|-----------------------|-------|--------|
| AS    | BLOCK&POWER TREE&GPIO |       |        |
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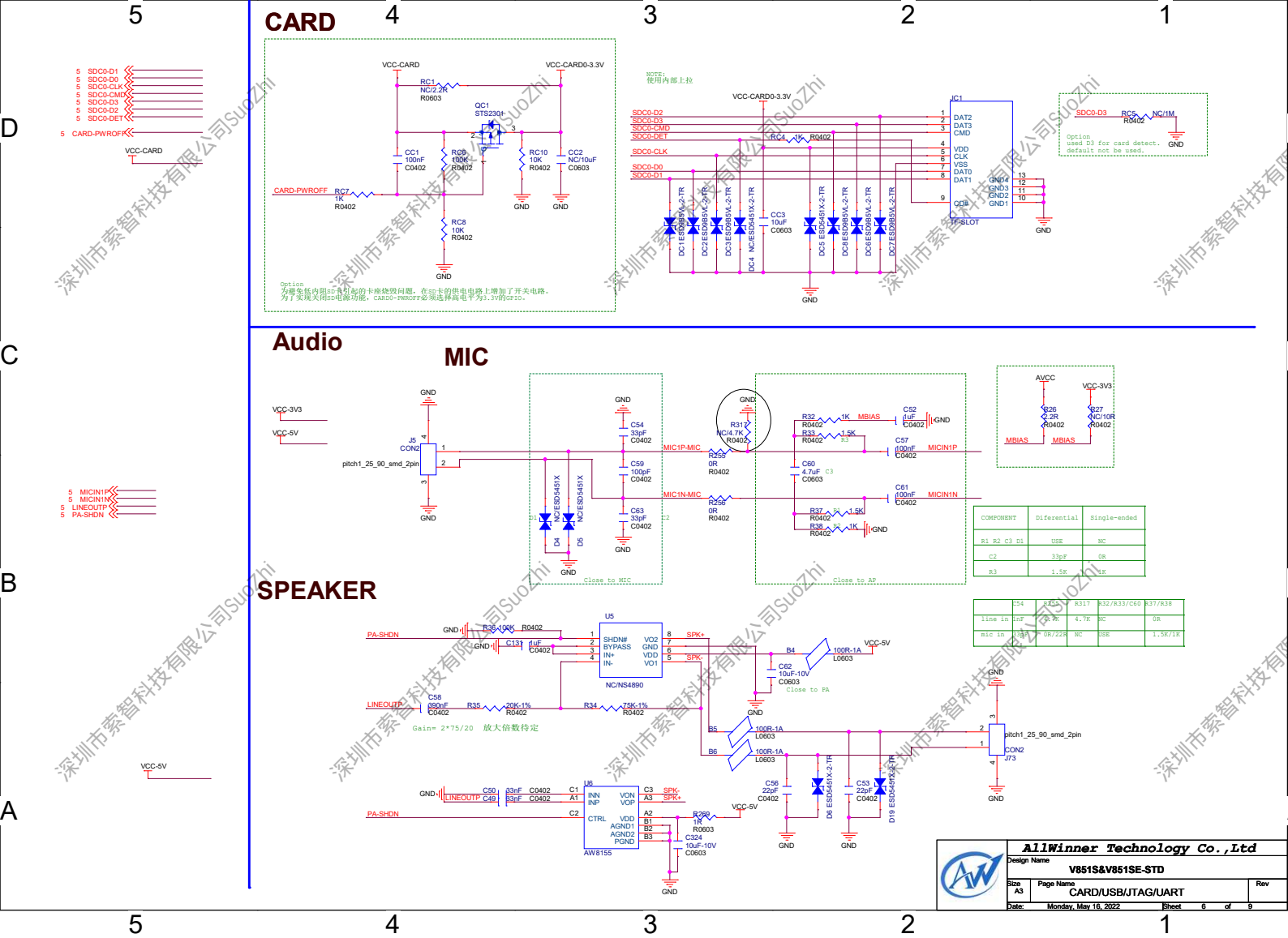
GPIO ASSIGNMENT

注意1：注意使用Io的电压域是否正确，电平是否匹配

|                              |                 |              |
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| A3                           | GPIO ASSIGNMENT |              |
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| IO   | 两组MIPI-2lane   | MIPI-4lane     |
|------|----------------|----------------|
| PA0  | MIPIA-CST-CKOP | MIPI1-CST-CKOP |
| PA1  | MIPIA-CST-CKON | MIPI1-CST-CKON |
| PA2  | MIPIA-CST-DON  | MIPI1-CST-DON  |
| PA3  | MIPIA-CST-DON  | MIPI1-CST-DON  |
| PA4  | MIPIA-CST-DON  | MIPI1-CST-DON  |
| PA5  | MIPIA-CST-DON  | MIPI1-CST-DON  |
| PA6  | MIPIA-CST-DON  | MIPI1-CST-DON  |
| PA7  | MIPIA-CST-DON  | MIPI1-CST-DON  |
| PA8  | MIPIA-CST-DON  | MIPI1-CST-DON  |
| PA9  | MIPIA-CST-DON  | MIPI1-CST-DON  |
| PA10 | MIPIA-CST-DON  | MIPI1-CST-DON  |
| PA11 | MIPIA-CST-DON  | MIPI1-CST-DON  |

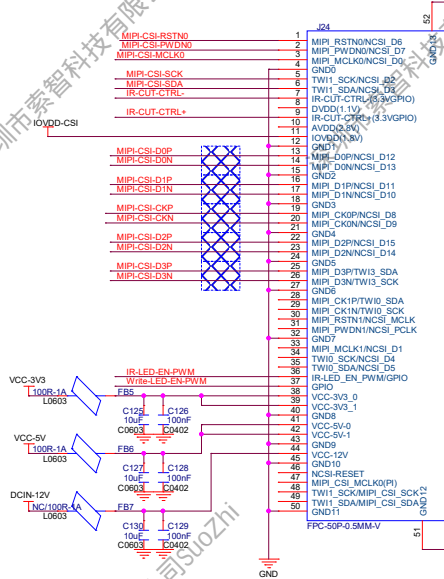
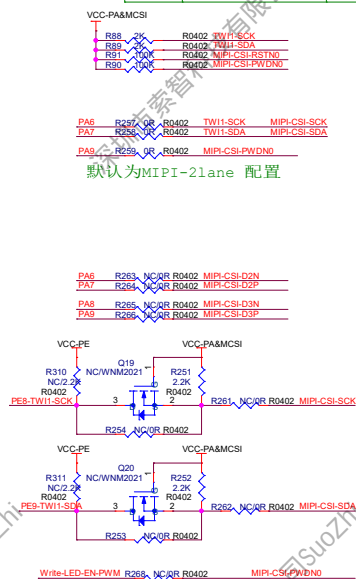
5 MCSI-CKP MIPI-CSI-CKP  
5 MCSI-CKN MIPI-CSI-CKN  
5 MCSI-D1N MIPI-CSI-D1N  
5 MCSI-D1P MIPI-CSI-D1P  
5 MCSI-D2P MIPI-CSI-D2P  
5 MCSI-D3N MIPI-CSI-D3N  
5 MIPI-CSI-MCLK0 MIPI-CSI-MCLK0  
5 PA11 MIPI-CSI-RSTN0  
5 PA6 PA6  
5 PA7 PA7  
5 PA8 PA8  
5 PA9 PA9  
5 IR-CUT-CTRL+ IR-CUT-CTRL+  
5 IR-CUT-CTRL- IR-CUT-CTRL-  
5 IR-LED-EN-PWM IR-LED-EN-PWM  
5 Write-LED-EN-PWM Write-LED-EN-PWM

5 PE8-TW11-SCK  
5 PE9-TW11-SDA

VCC-5V  
VCC-3V3  
IOVDD-CSI

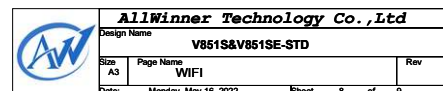
Place "close" to SOC

T28 MIPI-CSI-CKP  
T29 MIPI-CSI-CKN  
T30 MIPI-CSI-D1N  
T31 MIPI-CSI-D1P  
T32 MIPI-CSI-D2P  
T33 MIPI-CSI-D3N  
T35 PA6  
T36 PA7  
T37 PA8  
T38 PA9

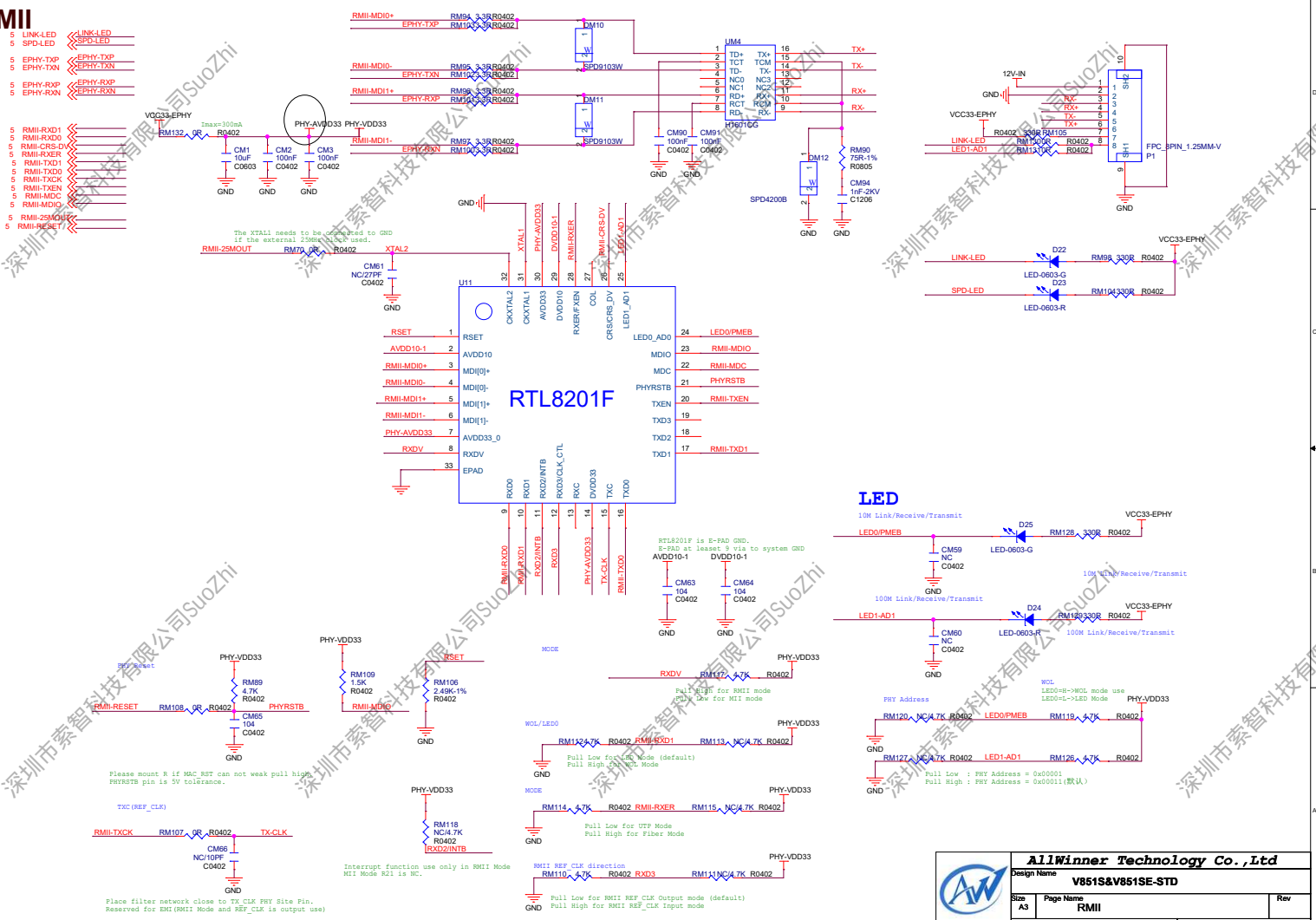


|                                      |                      |       |        |
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| Design Name                          |                      |       |        |
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| A3                                   | MIPI CSI/CSI         |       |        |
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## XR819S



## RMII



|                                                                                       |                                         |                   |     |
|---------------------------------------------------------------------------------------|-----------------------------------------|-------------------|-----|
|  | <b>AllWinner Technology Co., Ltd</b>    |                   |     |
|                                                                                       | Design Name <b>V851S&amp;V851SE-STD</b> |                   |     |
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