Version: 1.0

Version code: 7001 Date: 2021-11-02

First edition

## 注意事项:

- 1、在为核心板绘制底板时,为避免静电损坏,USB/HDMI/MIPI/GPIO等接口如需在底板扩展,请在信号线上添加对应的ESD或TVS保护二极管。
  - 2、请确保输入电源电压不超过5.4V(绝对最大值),否则有可能造成核心板永久损坏。
  - 3、在设计底板时,尽量不要使用PC4/PC5,否则可能会影响启动。如果确定需要使用,请参阅全志D1芯片手册。

## NOTICE:

- 1. While designing base bopard for this core board, please add ESD or TVS diodes on signal wires which has external connectors, such as USB/HDMI/MIPI/GPIO.
- 2. Make sure that the input power voltage below 5.4V (absolute max), or the core board wolud be damaged by the too high voltage.
- 3. PC4/PC5 controls boot mode, don't use them as GPIO would be better, or please refer to the user manual of ALLWINNERTECH D1.

P01_D1_Core_Power File: P01_D1_Core_Power.kicad_sch	
P02_D1_Core_SYS File: P02_D1_Core_SYS.kicad_sch	
P03_D1_Core_DDR File: P03_D1_Core_DDR.kicad_sch	
P04_D1_Core_HDMI File: P04_D1_Core_HDMI.kicad_sch	
P05_D1_Core_USB File: P05_D1_Core_USB.kicad_sch	
P06_D1_Core_TV_AUDIO_ADC File: P06_D1_Core_TV_AUDIO_ADC.kicad_s	ch
P07_D1_Core_GPIO_LCD File: P07_D1_Core_GPIO_LCD.kicad_sch	
P08_D1_Core_PORTD_MIPI_DSI File: P08_D1_Core_PORTD_MIPI_DSI.kicad_	_sch
P09_D1_Core_PORTE_RGMII File: P09_D1_Core_PORTE_RGMII.kicad_sc	h
P10_D1_Core_PORTF_SDCARD File: P10_D1_Core_PORTF_SDCARD.kicad_	sch
P11_D1_Core_PORTG_WIFL_BT File: P11_D1_Core_PORTG_WIFL_BT.kicad_s	sch
P12_D1_Core_CONNECTOR File: P12 D1 Core CONNECTOR.kicad sch	

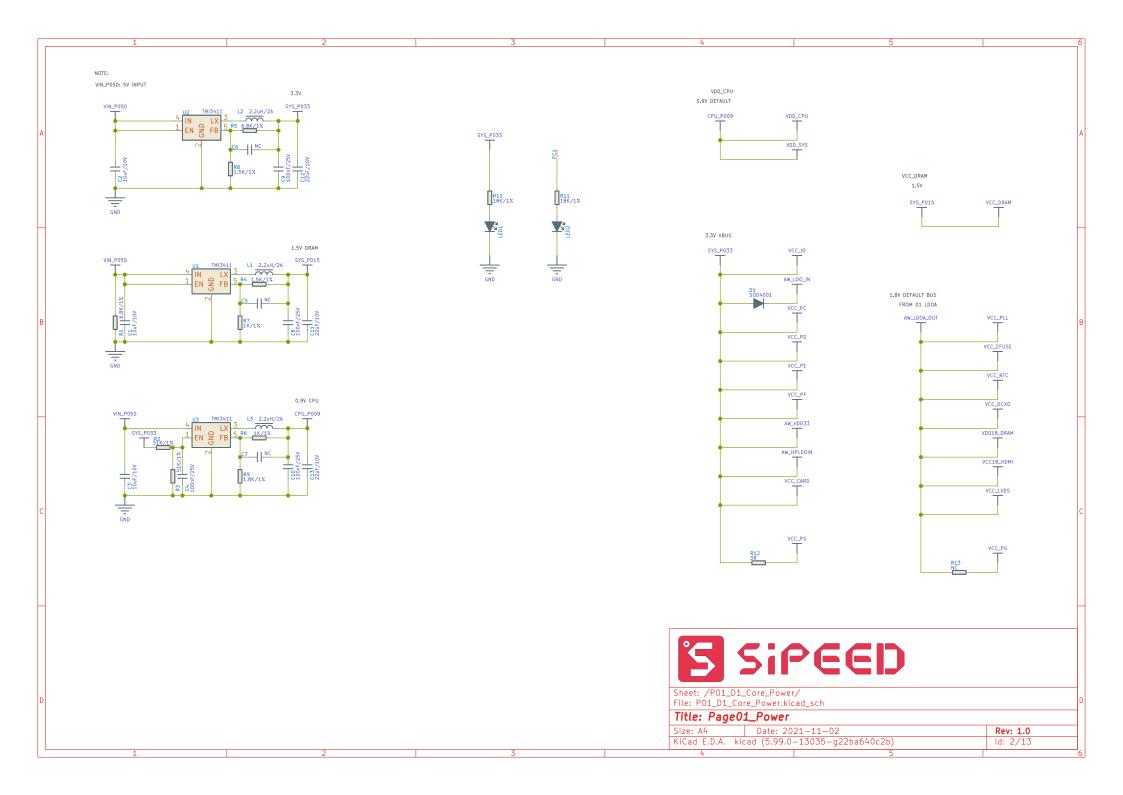


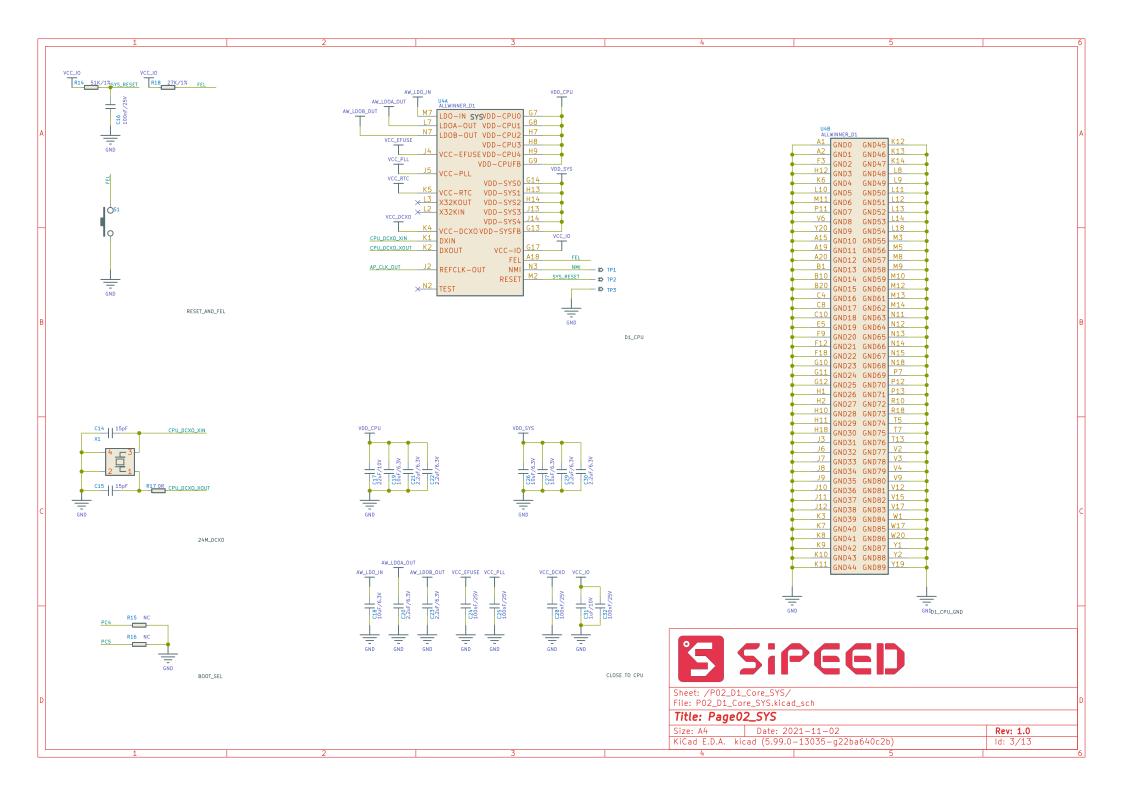
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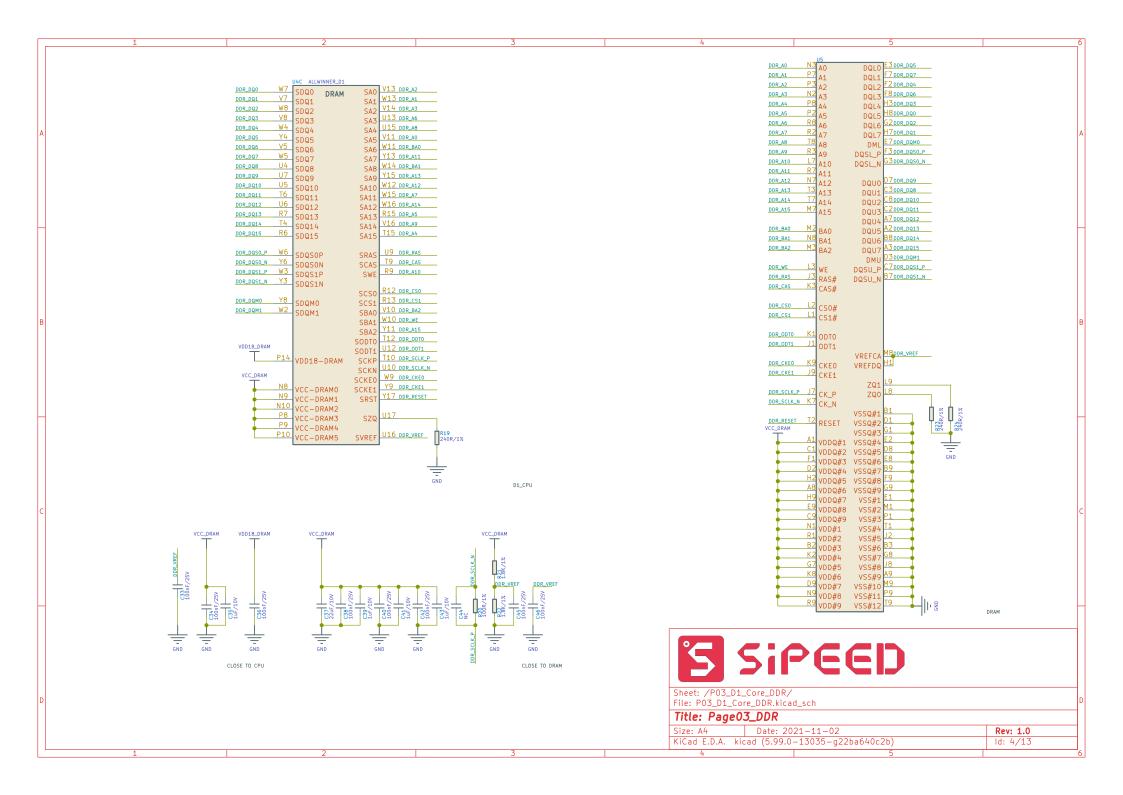
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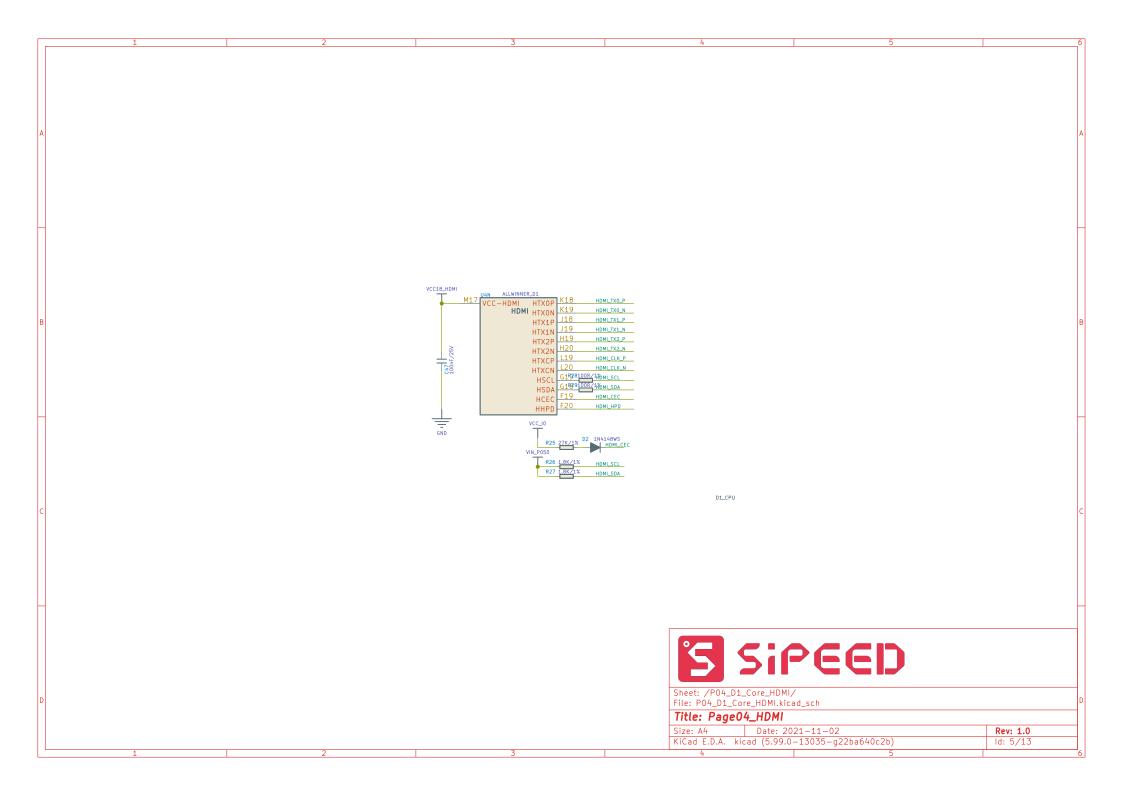
Size: A4 Date: 2021-11-02 KiCad E.D.A. kicad (5.99.0-13035-g22ba640c2b) Rev: 1.0

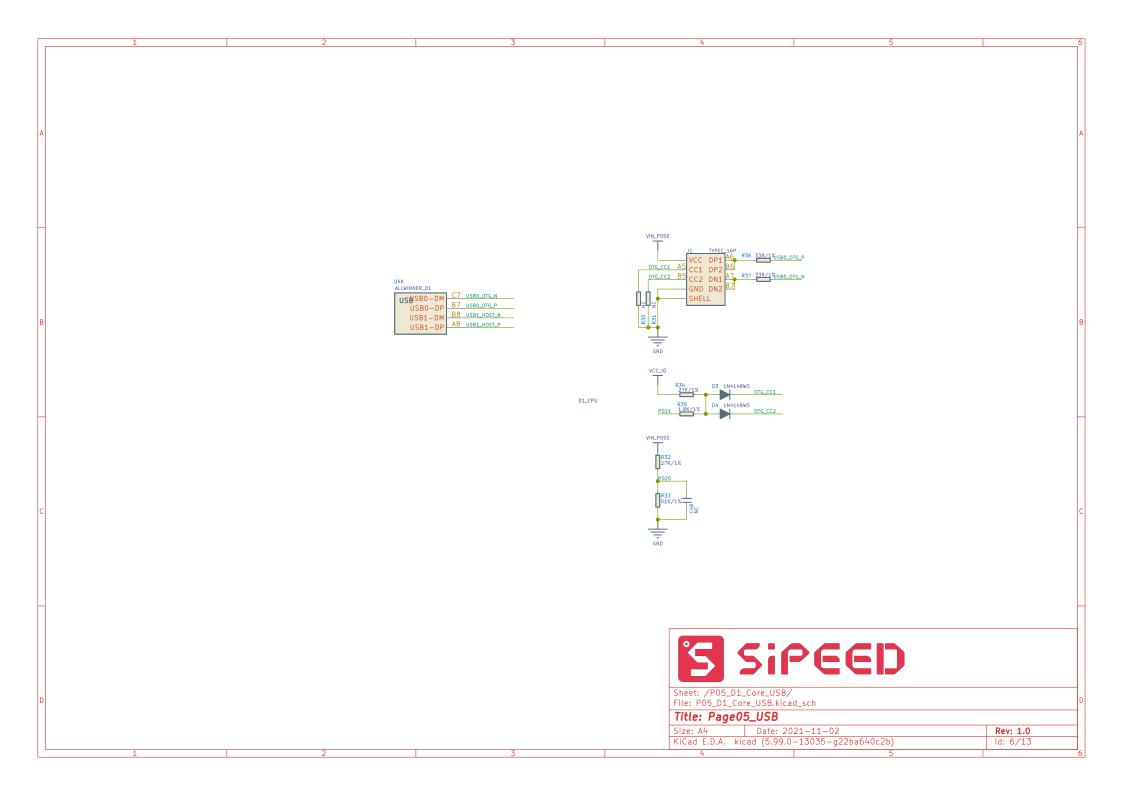
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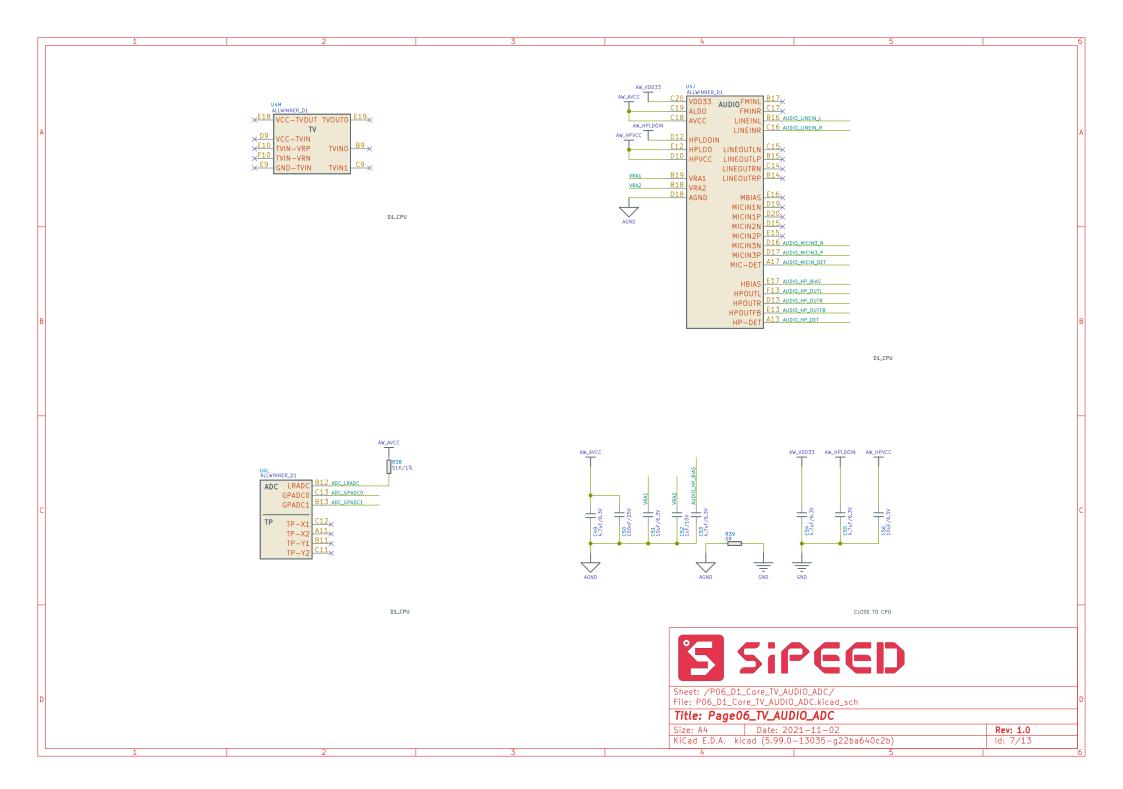










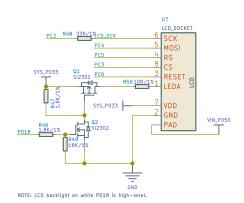


04D ALLWINNER\_D1

J16 PB0 PBO/PWM3/IR-TX/TWI2-SCK/SPI1-WP/DBI-TE/UARTO-TX/UART2-TX/SPDIF-OUT/PB-EINTO PortB PB1/PWM4/I2S2-DOUT3/TWI2-SDA/I2S2-DIN3/UART0-RX/UART2-RX/IR-RX/PB-EINT1 PB2/LCD0-D0/I2S2-D0UT2/TWI0-SDA/I2S2-DIN2/LCD0-D18/UART4-TX/PB-EINT2 M15 PB3 PB3/LCD0-D1/I2S2-DOUT1/TWI0-SCK/I2S2-DIN0/LCD0-D19/UART4-RX/PB-EINT3 K16 PB4 PB4/LCD0-D8/I2S2-DOUT0/TWI1-SCK/I2S2-DIN1/LCD0-D20/UART5-TX/PB-EINT/ K15 PB5 PB5/LCD0-D9/I2S2-BCLK/TWI1-SDA/PWM0/LCD0-D21/UART5-RX/PB-EINTS K17 PB6 PB6/LCD0-D16/I2S2-LRCK/TWI3-SCK/PWM1/LCD0-D22/UART3-TX/CPUBISTO/PB-EINT6 PB7/LCD0-D17/I2S2-MCLK/TWI3-SDA/IR-RX/LCD0-D23/UART3-RX/CPUBIST1/PB-EINT7 G15 PB8 PB8/DMIC-DATA3/PWM5/TWI2-SCK/SPI1-HOLD/DBI-DCX/DBI-WRX/UART0-TX/UART1-TX/PB-EINT8 G16 PB9 PB9/DMIC-DATA2/PWM6/TWI2-SDA/SPI1-MISO/DBI-SDI/DBI-TE/DBI-DCX/UARTO-RX/UART1-RX/PB-EINTS F17 PB10 PB10/DMIC-DATA1/PWM7/TWI0-SCK/SPI1-MOSI/DBI-SD0/CLK-FANOUT0/UART1-RTS/PB-EINT10 F15 PB11 PB11/DMIC-DATAO/PWM2/TWIO-SDA/SPI1-CLK/DBI-SCLK/CLK-FANOUT1/UART1-CTS/PB-EINT11 PB12/DMIC-CLK/PWM0/SPDIF-IN/SPI1-CS/DBI-CSX/CLK-FANOUT2/IR-RX/PB-EINT12 F16 PB12

D1\_CPU

U4E ALLWINNER D1 PortC PCO/UART2-TX/TWI2-SCK/LEDC-DO/PC-EINTO F1 PC1 PC1/UART2-RX/TWI2-SDA/PC-EINT1 G3 PC2 PC2/SPI0-CLK/SDC2-CLK/PC-EINT2 G2 PC3 PC3/SPI0-CS0/SDC2-CMD/PC-EINT3 PC4/SPI0-MOSI/SDC2-D2/BOOT-SEL0/PC-EINT4 F5 PC5 PC5/SPI0-MISO/SDC2-D1/BOOT-SEL1/PC-EINT5 G6 PC6 PC6/SPI0-WP/SDC2-D0/UART3-TX/TWI3-SCK/DBG-CLK/PC-EINT6 G5 PC7 PC7/SPI0-HOLD/SDC2-D3/UART3-RX/TWI3-SDA/TCON-TRIG/PC-EINT7



D1\_CPU SPLLCD



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 Size: A4
 Date: 2021-11-02
 Rev: 1.0

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