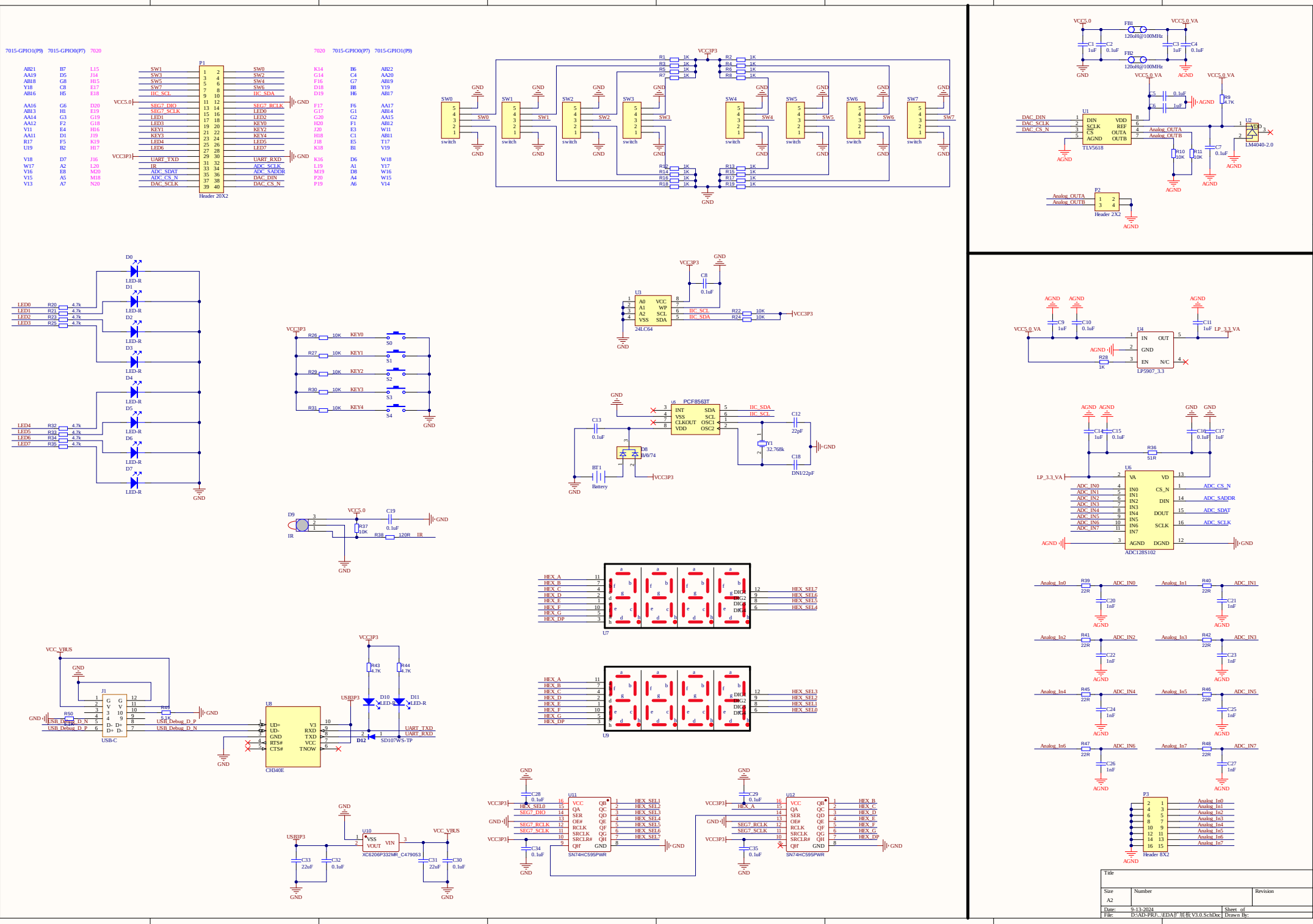
7015-GPIO1(P9) 7015-GPIO0(P7) 7020
7020 7015-GPIO0(P7) 7015-GPIO1(P9)
P1
Header 20X2
SW1 SW3 SW5 SW7 IIC_SCL SEG7_DIO SEG7_SCLK LED1 LED3 KEY1 KEY3 LED4 LED6 UART_TXD IR ADC_SDAT ADC_CS_N DAC_SCLK
SW0 SW2 SW4 SW6 IIC_SDA SEG7_RCLK LED0 LED2 KEY0 KEY2 KEY4 LED5 LED7 UART_RXD ADC_SCLK ADC_SADDR DAC_DIN DAC_CS_N
VCC5.0 VCC3P3 GND
VCC3P3
R1 R2 R3 R4 R5 R6 R7 R8 R32 R14 R16 R18 R13 R15 R17 R19 1K
SW0 SW1 SW2 SW3 SW4 SW5 SW6 SW7
switch
VCC5.0 VA
FB1 FB2 120nH@100MHz
C1 C2 C3 C4 1uF 0.1uF
AGND
DAC_DIN DAC_SCLK DAC_CS_N
U1 TLV5618
DIN SCLK CS AGND VDD REF OUTA OUTB
Analog_OUTA Analog_OUTB
R9 4.7K R10 10K R11 10K C5 C6 C7 0.1uF 1uF
U2 LM4040-2.0
VDD 3.3
P2 Header 2X2
D0 D1 D2 D3 D4 D5 D6 D7 LED-R
LED0 LED1 LED2 LED3 LED4 LED5 LED6 LED7 R20 R21 R23 R25 R32 R33 R34 R35 4.7K
VCC3P3
KEY0 KEY1 KEY2 KEY3 KEY4 R26 R27 R29 R30 R31 10K S0 S1 S2 S3 S4
U3 24LC64
A0 A1 A2 VSS VCC WP SCL SDA
C8 0.1uF R22 R24 10K IIC_SCL IIC_SDA
U6 PCF8563T
INT VSS CLKOUT VDD SDA SCL OSC1 OSC2
C12 22pF C13 0.1uF C18 DNI/22pF
Y1 32.768k
D8 SW74
BT1 Battery
C9 C10 C11 1uF 0.1uF
U4 LP5907_3.3
IN GND EN OUT N/C
LP_3.3_VA R28 1K
C14 C15 C16 C17 1uF 0.1uF
R36 51R
U6 ADC128S102
VA VD IN0 IN1 IN2 IN3 IN4 IN5 IN6 IN7 AGND DGND CS_N DIN DOUT SCLK
ADC_IN0 ADC_IN1 ADC_IN2 ADC_IN3 ADC_IN4 ADC_IN5 ADC_IN6 ADC_IN7 ADC_CS_N ADC_SADDR ADC_SDAT ADC_SCLK
D9 IR R37 10K R38 120R C19 0.1uF
VCC_VBUS
J1 USB-C
R50 5.1K R48 5.1K USB_Debug_D_N USB_Debug_D_P
U8 CH340E
UD+ UD- GND RTS# CTS# V3 RXD TXD VCC TNOW
R43 R44 4.7K D10 D11 LED-R D12 SD107WS-TP UART_TXD UART_RXD
HEX_A HEX_B HEX_C HEX_D HEX_E HEX_F HEX_G HEX_DP
U7 U9
HEX_SEL7 HEX_SEL6 HEX_SEL5 HEX_SEL4 HEX_SEL3 HEX_SEL2 HEX_SEL1 HEX_SEL0
U10 XC6206P332MR_C479053
VSS VOUT VIN
C33 22uF C32 C31 22uF C30 0.1uF
U11 U12 SN74HC595PWR
VCC QA SER OE# RCLK SRCLK SRCLR# QH' QB QC QD QE QF QG QH GND
SEG7_DIO SEG7_RCLK SEG7_SCLK HEX_A
HEX_SEL1 HEX_SEL2 HEX_SEL3 HEX_SEL4 HEX_SEL5 HEX_SEL6 HEX_SEL7
HEX_B HEX_C HEX_D HEX_E HEX_F HEX_G HEX_DP
C28 C29 C34 C35 0.1uF
Analog_In0 Analog_In1 Analog_In2 Analog_In3 Analog_In4 Analog_In5 Analog_In6 Analog_In7
R39 R40 R41 R42 R45 R46 R47 R48 22R
ADC_IN0 ADC_IN1 ADC_IN2 ADC_IN3 ADC_IN4 ADC_IN5 ADC_IN6 ADC_IN7
C20 C21 C22 C23 C24 C25 C26 C27 1nF
P3 Header 8X2
Title
Size A2
Number
Revision
Date: 9-13-2024
Sheet of
File: D:\AD-PRJ\..\EDA扩展板V3.0.SchDoc
Drawn By: