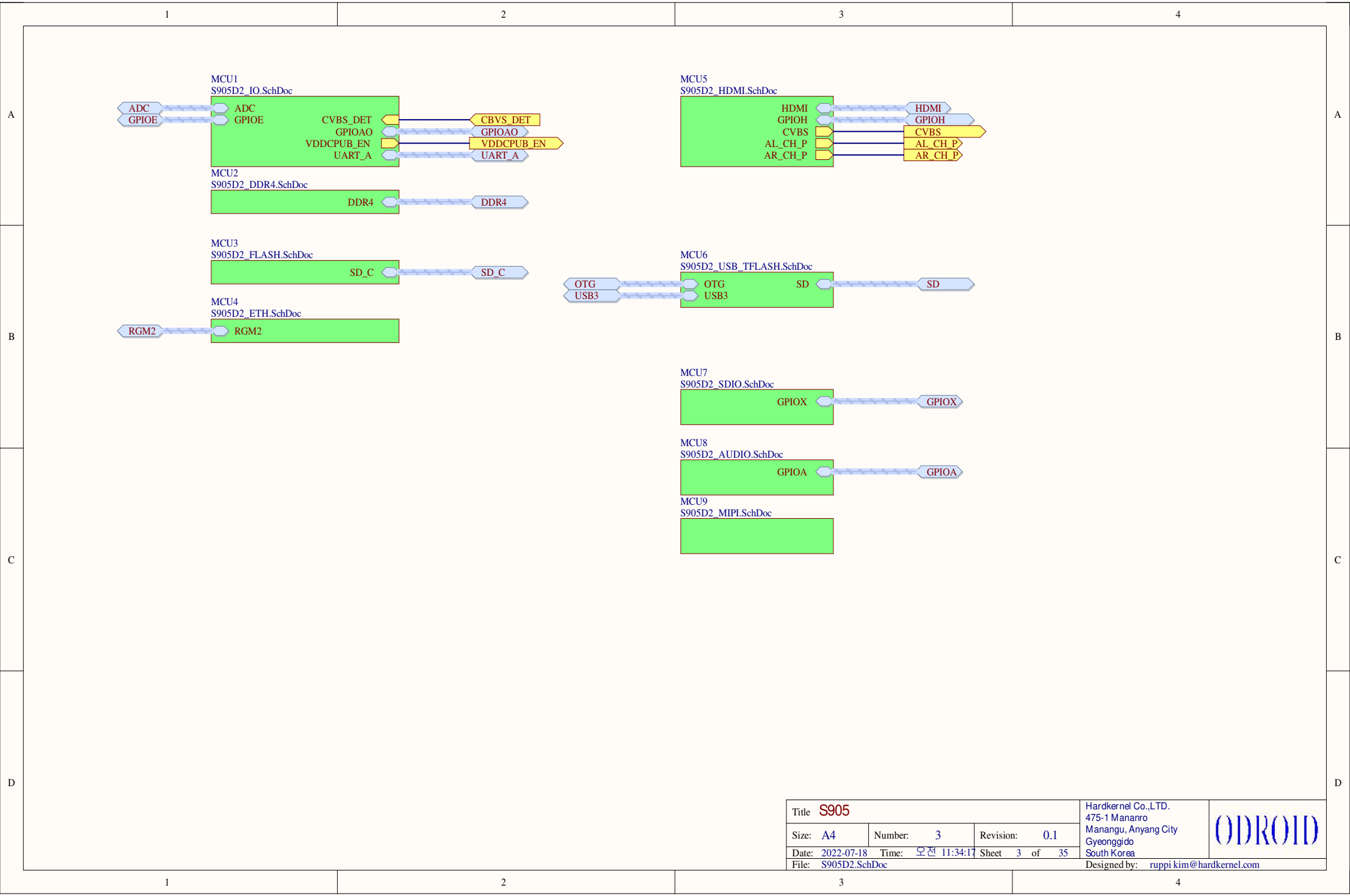
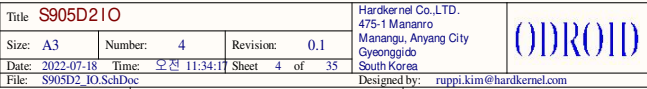






U1B

LIB VER:2017-12-21

VDDIO_BOOT

BOOT_0(EMMC_D0)
BOOT_1(EMMC_D1)
BOOT_2(EMMC_D2)
BOOT_3(EMMC_D3//NOR_HOLD)
BOOT_4(EMMC_D4//NOR_D)
BOOT_5(EMMC_D5//NOR_Q)
BOOT_6(EMMC_D6//NOR_C)
BOOT_7(EMMC_D7//NOR_WP)

BOOT_8(EMMC_CLK//NAND_WEN_CLK)

BOOT_9(NAND_ALE)

BOOT_10(EMMC_CMD//NAND_CLE)

BOOT_11(NAND_CE0)

BOOT_12(NAND_REN_WR)

BOOT_12(NAND_REN_WR)

BOOT_13(EMMC_NAND_DQS)

BOOT_14(NAND_RB0//NOR_CS)

BOOT_15(NAND_CE1)

S905D2

FLASH_1V8

C20
0.1uF

SDC

eMMC_D[7..0]
DATA[7..0]
CLK
CMD
RSTn
DQS
• CDn

SD_C

BH21

BK9

BH9

BK11

BH11

BH13

BM15

BH17

BK17

BH24

BF22

BB19

BD19

BK21

BM19

BK19

BF19

eMMC D0

eMMC D1

eMMC D2

eMMC D3

eMMC D4

eMMC D5

eMMC D6

eMMC D7

R12

R5

eMMC CLK

eMMC CMD

eMMC RST

eMMC DQS

SPL_CS

33R

4K7 F

eMMC CLK

eMMC CMD

eMMC RST

eMMC DQS

SPL_CS

FLASH_1V8

SPL_CS

eMMC_D5

eMMC_D7

GND

GND

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U7

CE#

SO

WP#

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VCC

HOLD#

SCK

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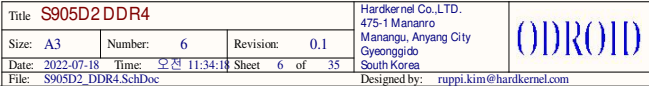
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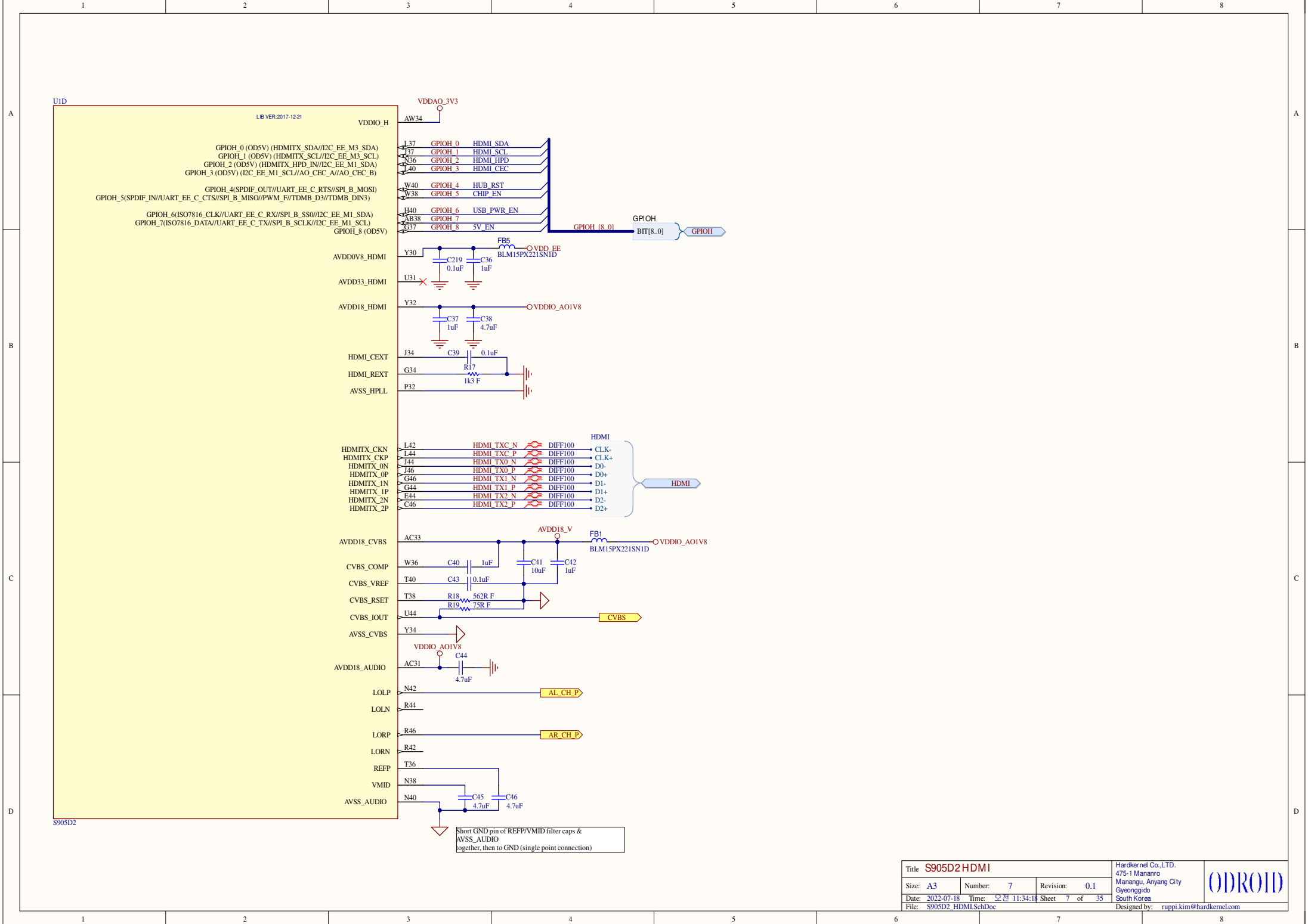
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216

217

21





A

B

C

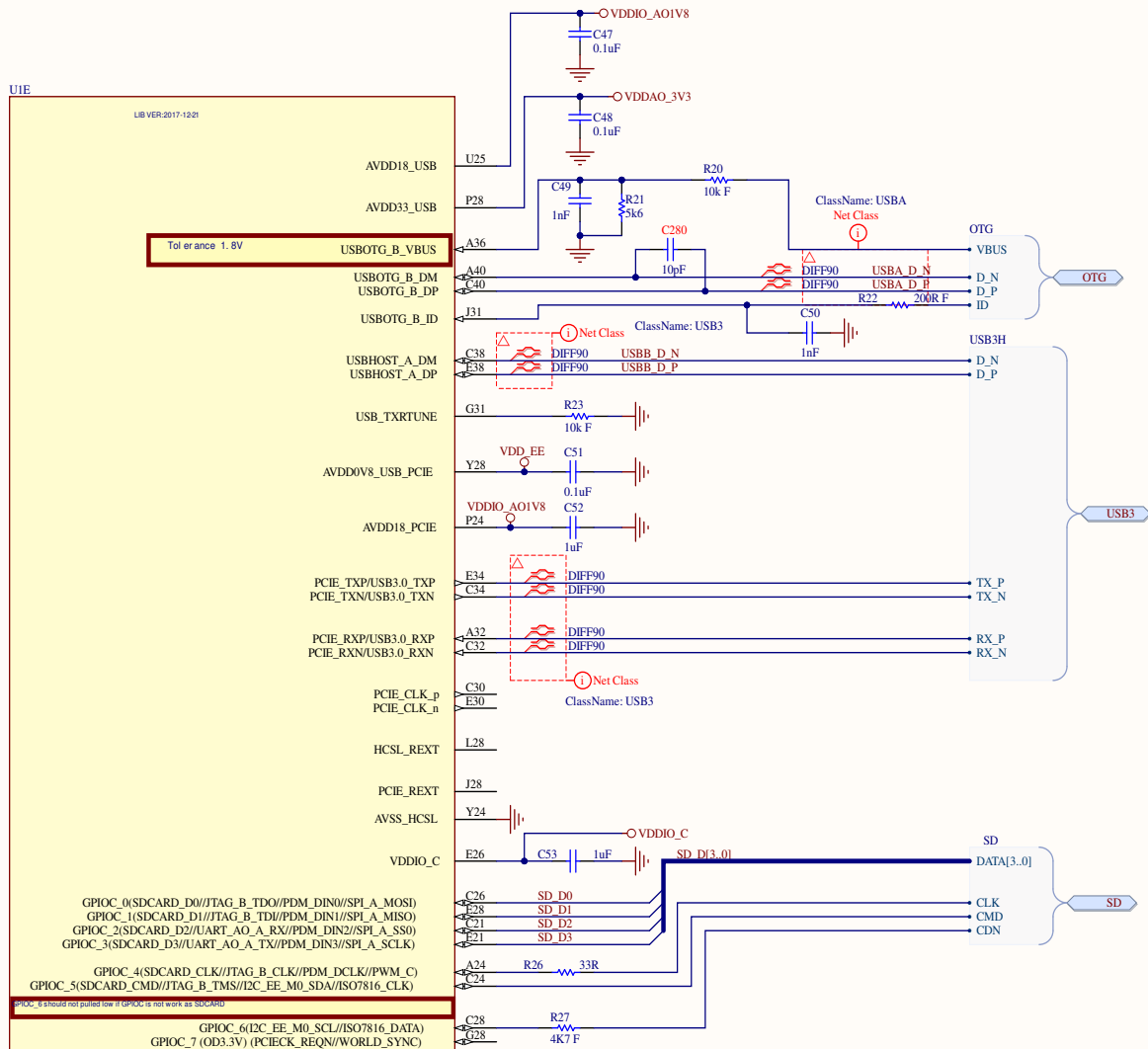
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A

B

C

D



S905D2

Title USB TFLASH			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea		
Size: A3	Number: 8	Revision: 0.1			
Date: 2022-07-18	Time: 22:35:11	Sheet 8 of 35			
File: S905D2_USB_TFLASH.SchDoc			Designed by: ruppi.kim@hardkernel.com		

UIF

LIB VER:2017-12-21

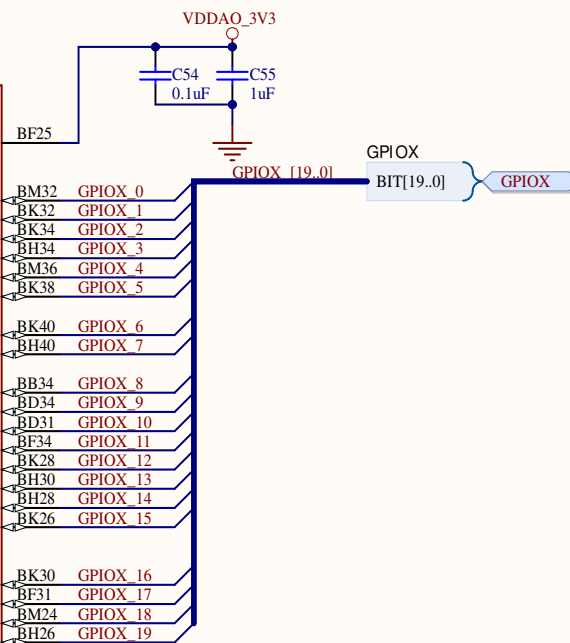
VDDIO_X

GPIOX_0(SDIO_D0//PDM_DIN0//TSIN_A_DIN0)
 GPIOX_1(SDIO_D1//PDM_DIN1//TSIN_A_SOP)
 GPIOX_2(SDIO_D2//PDM_DIN2//TSIN_A_VALID)
 GPIOX_3(SDIO_D3//PDM_DIN3//TSIN_A_CLK//PWM_D)
 GPIOX_4(SDIO_CLK//PDM_DCLK)
 GPIOX_5(SDIO_CMD//MCLK_1//PWM_C)

 GPIOX_6(PWM_A//UART_EE_B_TX//PWM_D)
 GPIOX_7(PWM_F//UART_EE_B_RX//PWM_B)

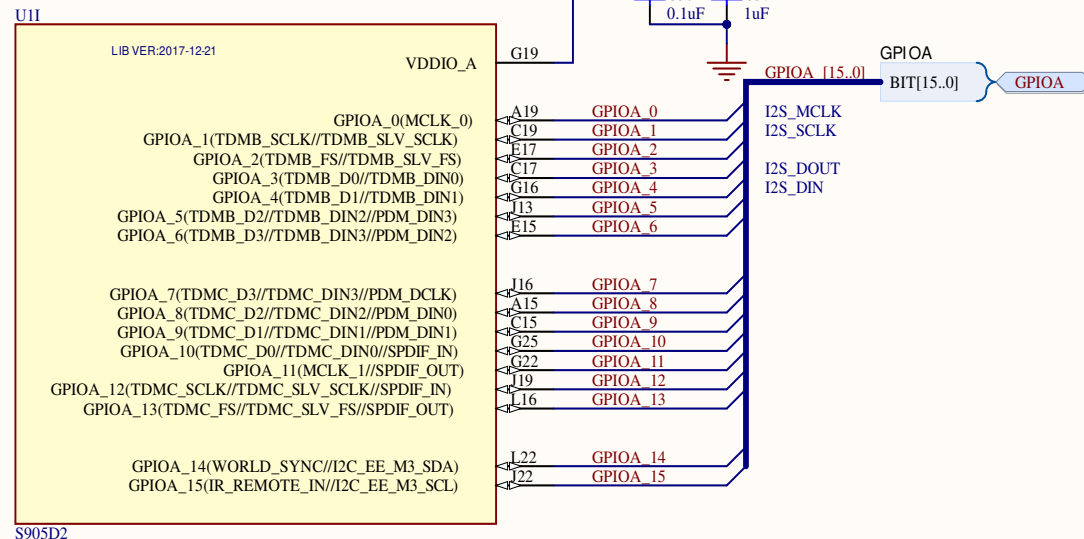
 GPIOX_8(TDMA_D1//TDMA_DIN1//TSIN_B_SOP//SPI_A_MOSI//ISO7816_CLK//PWM_C)
 GPIOX_9(TDMA_D0//TDMA_DIN0//TSIN_B_VALID//SPI_A_MISO//ISO7816_DATA)
 GPIOX_10(TDMA_FS//TDMA_SLV_FS//TSIN_B_DIN0//SPI_A_SS0//I2C_EE_M1_SDA)
 GPIOX_11(TDMA_SCLK//TDMA_SLV_SCLK//TSIN_B_CLK//SPI_A_SCLK//I2C_EE_M1_SCL)
 GPIOX_12(UART_EE_A_TX)
 GPIOX_13(UART_EE_A_RX)
 GPIOX_14(UART_EE_A_CTS)
 GPIOX_15(UART_EE_A_RTS)

 GPIOX_16(PWM_E)
 GPIOX_17(I2C_EE_M2_SDA)
 GPIOX_18(I2C_EE_M2_SCL)
 GPIOX_19(PWM_B//WORLD_SYNC//GEN_CLK_EE)

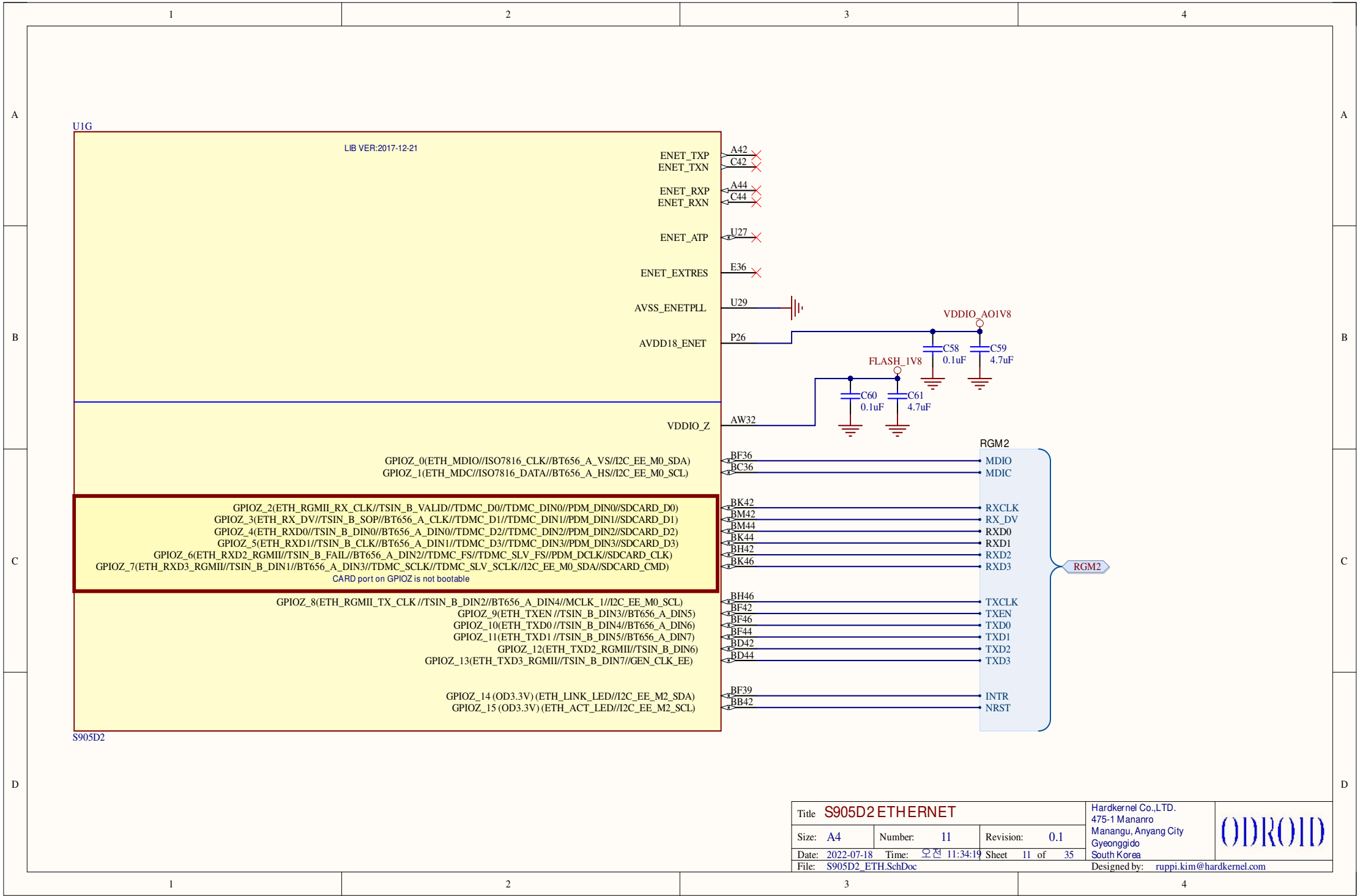


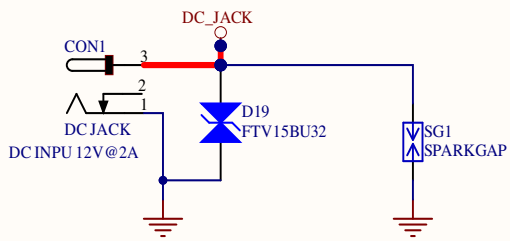
S905D2

Title S905D2 SDIO			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea		ODROID
Size: A4	Number: 9	Revision: 0.1			
Date: 2022-07-18	Time: 오전 11:34:19	Sheet 9 of 35			
File: S905D2 SDIO.SchDoc			Designed by: ruppi.kim@hardkernel.com		

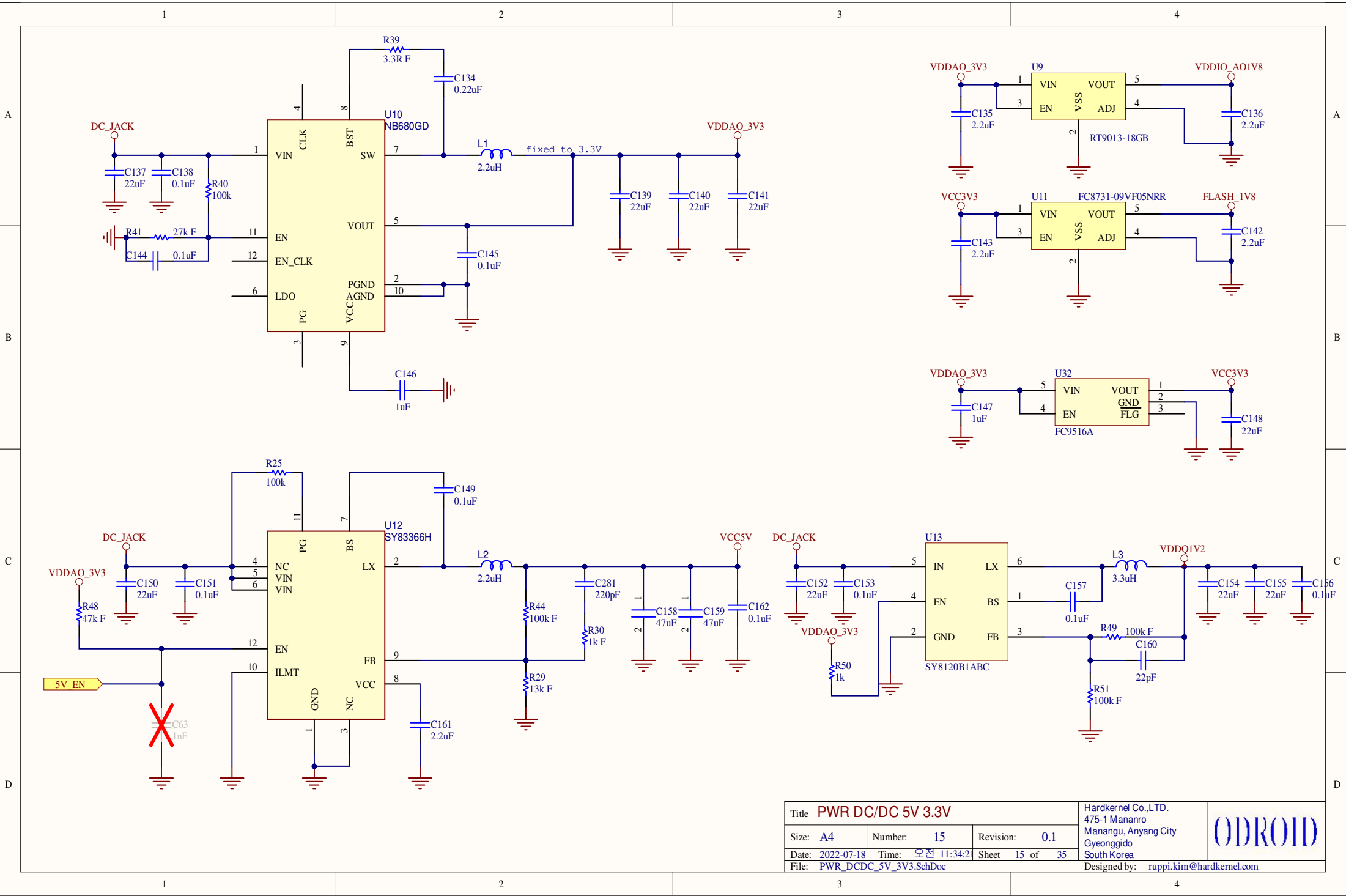


Title S905D2 AUDIO				Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea		ODROID
Size: A4	Number: 10	Revision: 0.1				
Date: 2022-07-18	Time: 오전 11:34:19	Sheet 10	of 35			
File: S905D2_AUDIO.SchDoc				Designed by: *@hardkernel.com		





Title DC JACK			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea		
Size: A4	Number: 14	Revision: 0.1			
Date: 2022-07-18	Time: 오전 11:34:20	Sheet 14 of 35			
File: CON_DCJACK.SchDoc			Designed by: ruppi.kim@hardkernel.com		



Title **PWR DC/DC 5V 3.3V**

Size: **A4**

Number: **15**

Revision: **0.1**

Date: **2022-07-18** Time: **오전 11:34:21**

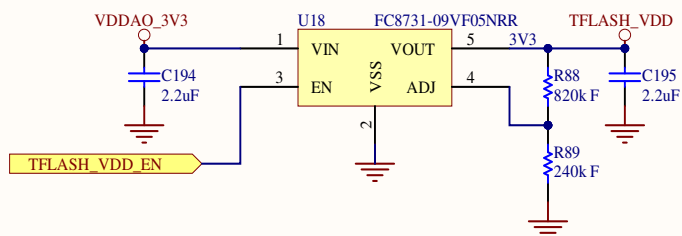
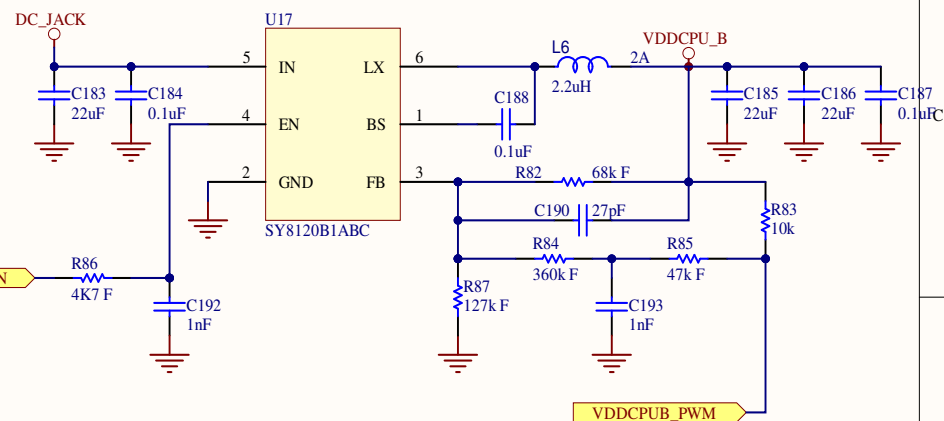
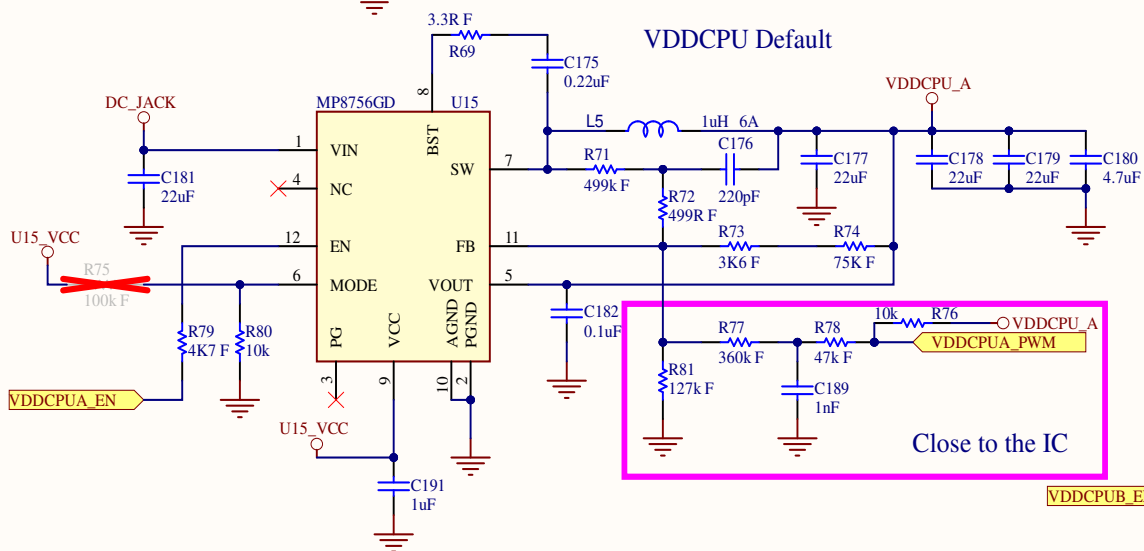
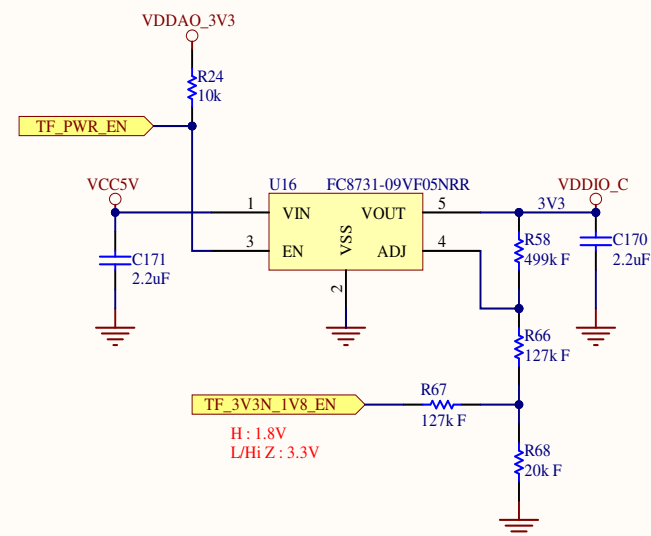
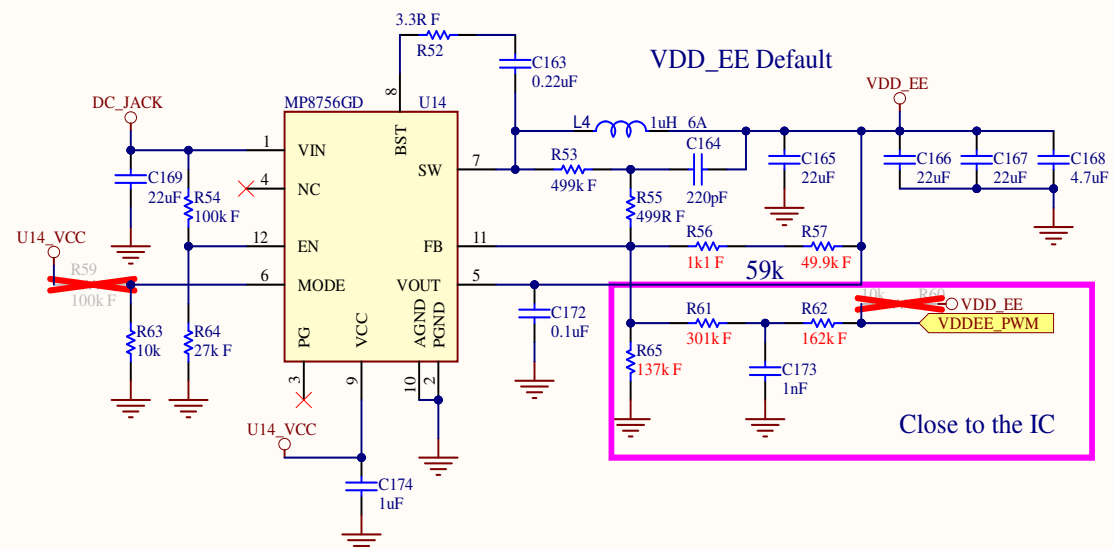
Sheet **15** of **35**

File: **PWR_DCDC_5V_3V3.SchDoc**

Hardkernel Co.,LTD.
475-1 Mananro
Manangu, Anyang City
Gyeonggido
South Korea

Designed by: **ruppi.kim@hardkernel.com**

ODROID



Title **PWR DC/DC OTHERS**

Size: **A4**

Number: **16**

Revision: **0.1**

Date: 2022-07-18 Time: 2022-07-18 11:34:21

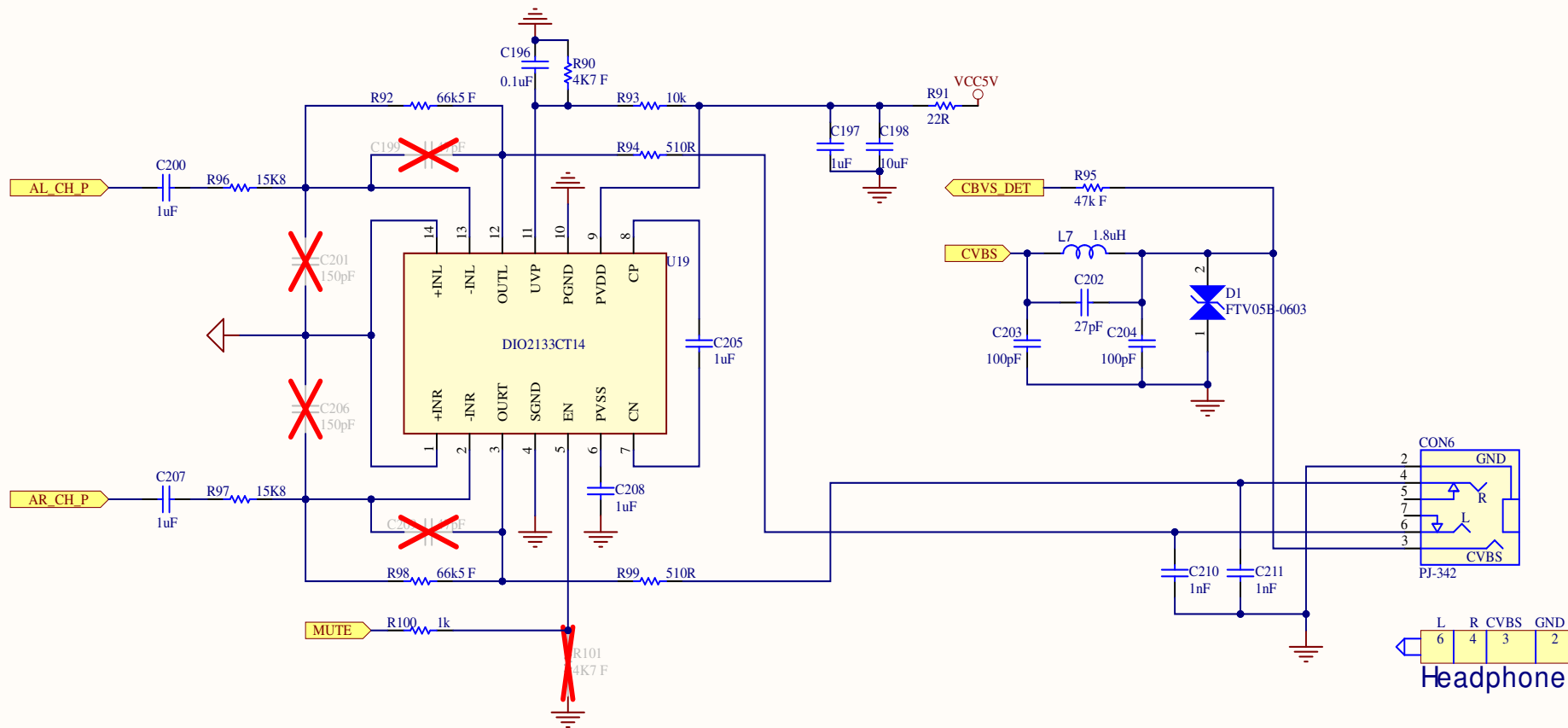
Sheet 16 of 35

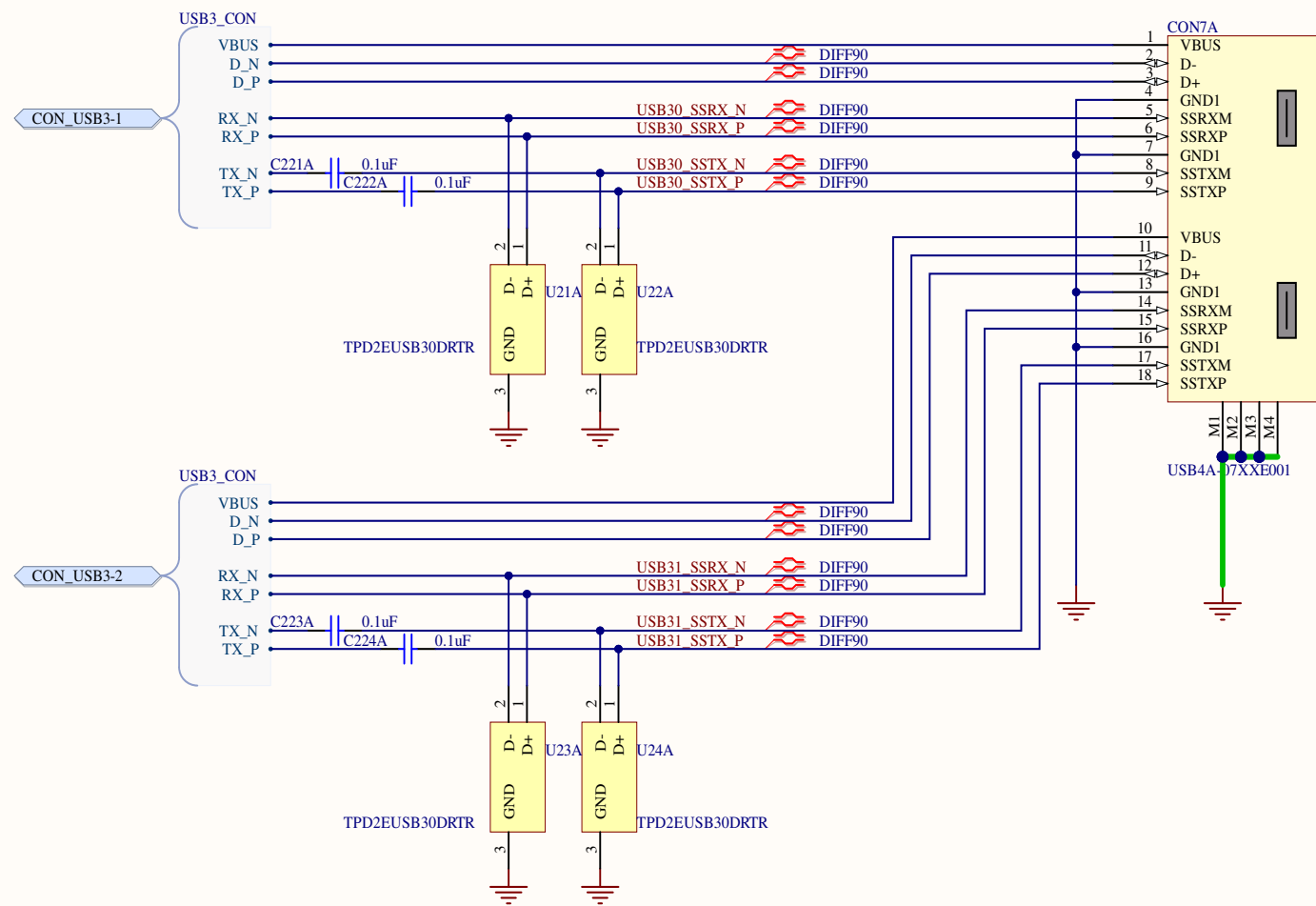
File: PWR_DCDC_OTHERS.SchDoc

Hardkernel Co.,LTD.
475-1 Mananro
Manangu, Anyang City
Gyeonggido
South Korea

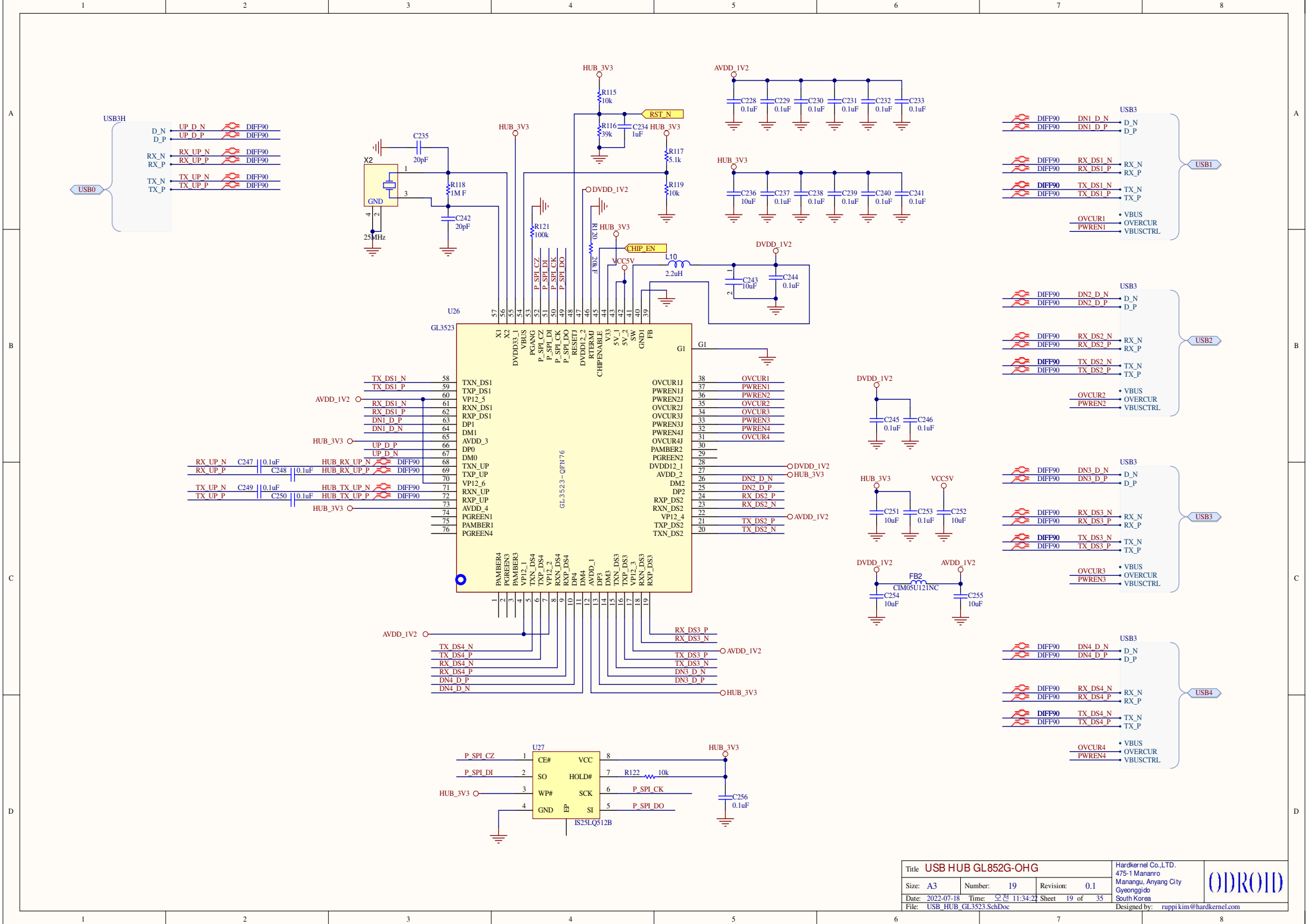
Designed by: ruppi.kim@hardkernel.com

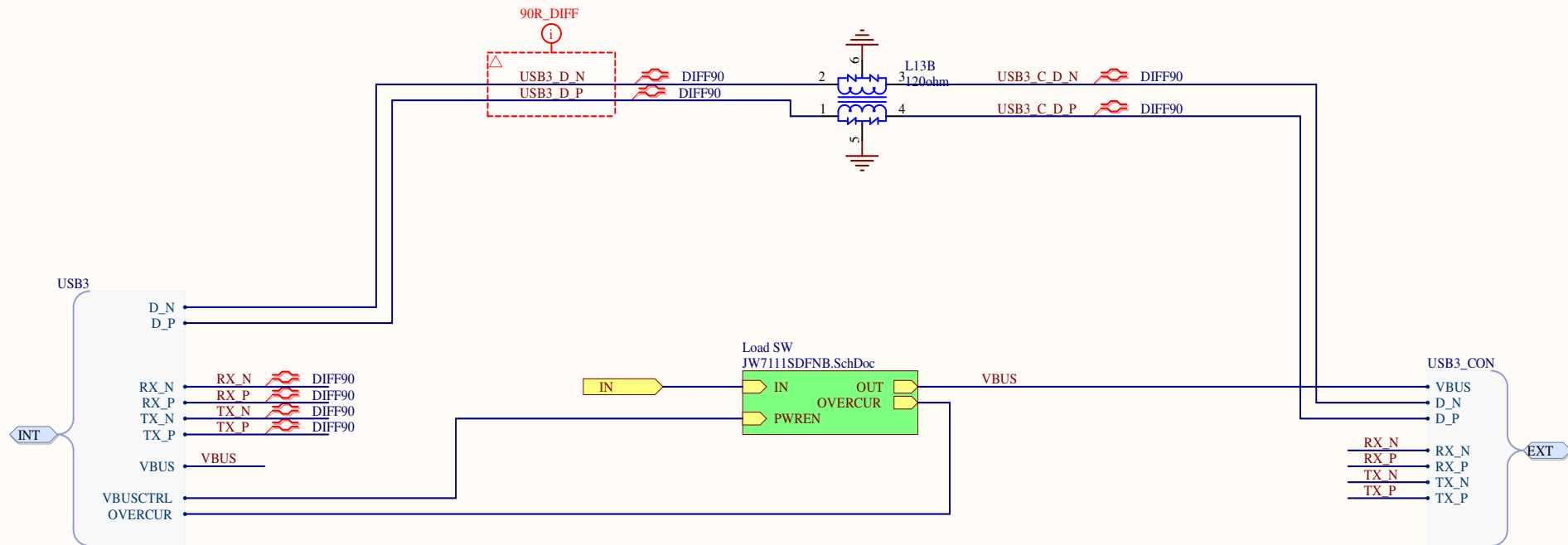
ODROID

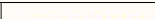


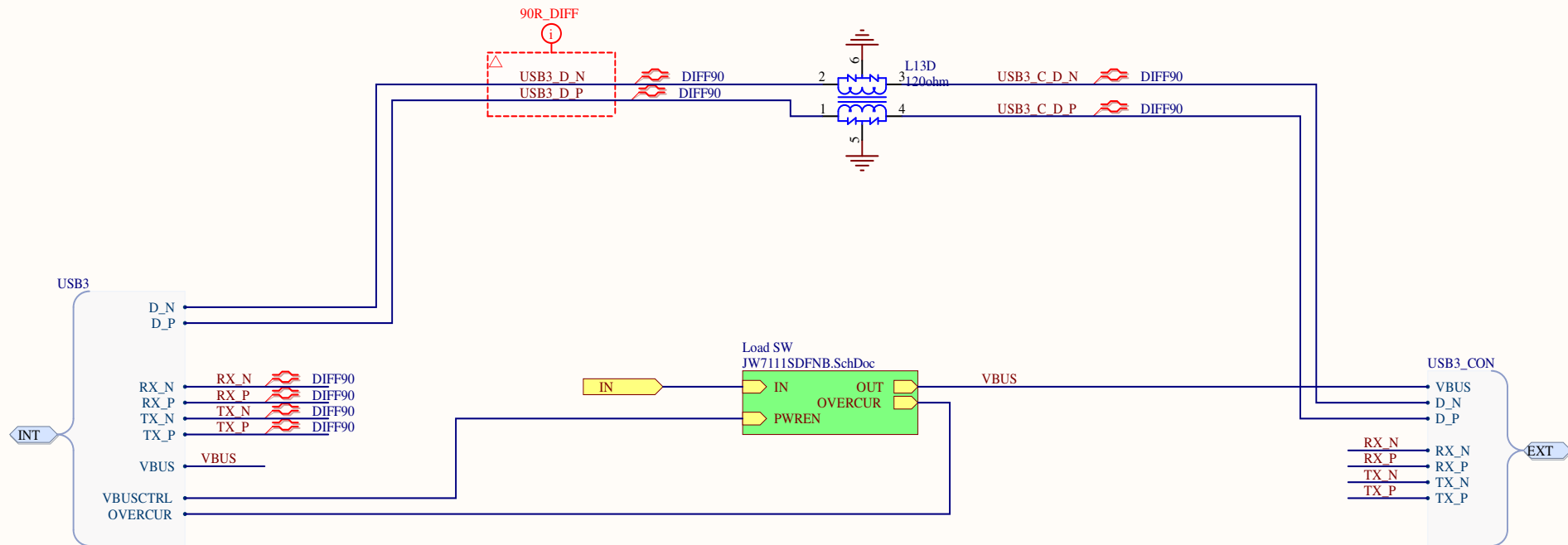


Title USB 3.0 Type A Connector			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea		
Size: A4	Number: 18	Revision: 0.1			
Date: 2022-07-18	Time: 오전 11:34:22	Sheet 18 of 35			
File: CON_USB3_DUAL_RA.SchDoc			Designed by: ruppi.kim@hardkernel.com		

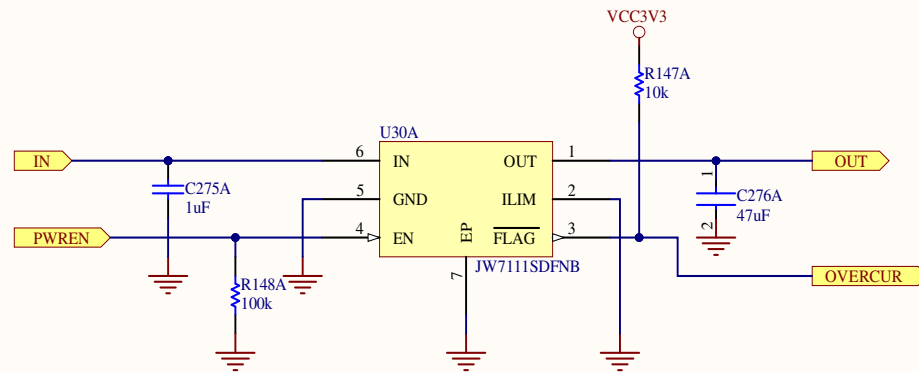




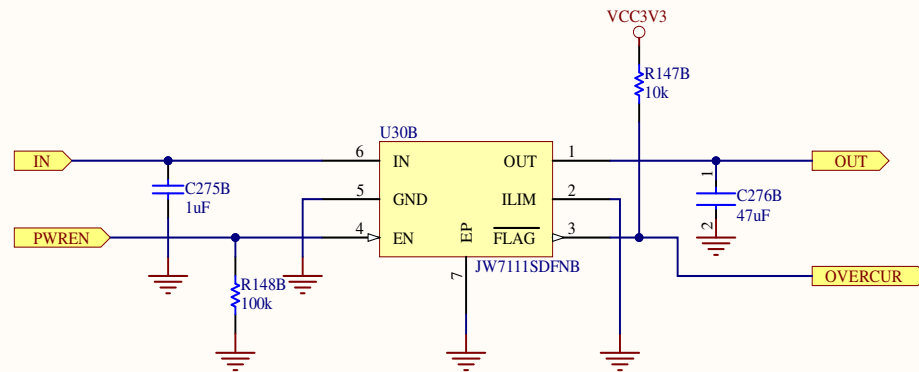
Title USB3 BUS Power Switch			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea		
Size: A4	Number: 20	Revision: 0.1			
Date: 2022-07-18	Time: 오전 11:34:23	Sheet 20 of 35			
File: USB3_BUS_PWR.SchDoc			Designed by: ruppi kim@hardkernel.com		



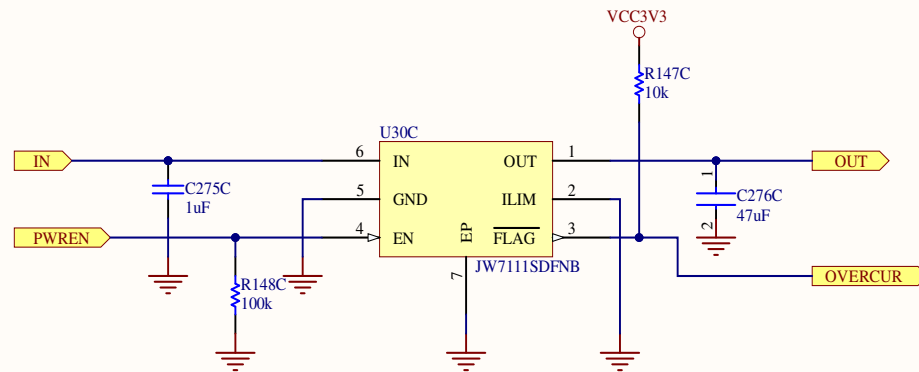
Title: USB3 BUS Power Switch			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea		
Size: A4	Number: 20	Revision: 0.1			
Date: 2022-07-18	Time: 오전 11:34:23	Sheet 20 of 35			
File: USB3_BUS_PWR.SchDoc			Designed by: ruppi kim@hardkernel.com		

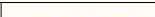


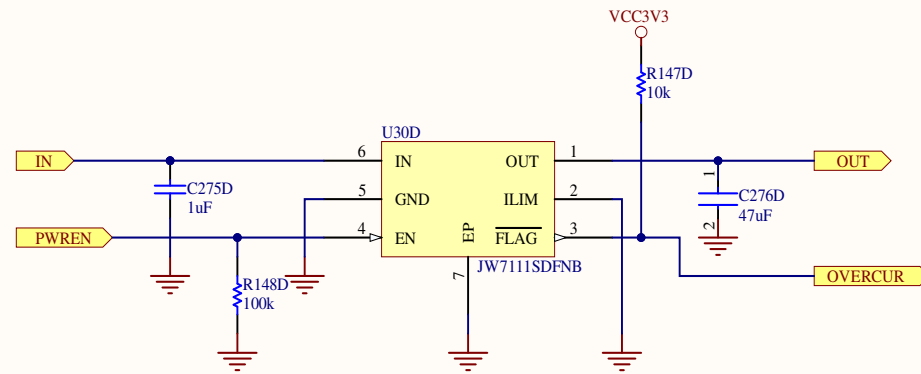
Title USB HOST Power Switch			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea		
Size: A4	Number: 21	Revision: 0.1			
Date: 2022-07-18	Time: 오전 11:34:23	Sheet 21 of 35			
File: JW7111SDFNB.SchDoc			Designed by: ruppi.kim@hardkernel.com		



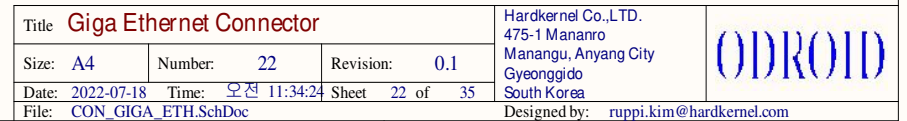
Title USB HOST Power Switch			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea		
Size: A4	Number: 21	Revision: 0.1			
Date: 2022-07-18	Time: 오전 11:34:23	Sheet 21 of 35			
File: JW7111SDFNB.SchDoc			Designed by: ruppi.kim@hardkernel.com		

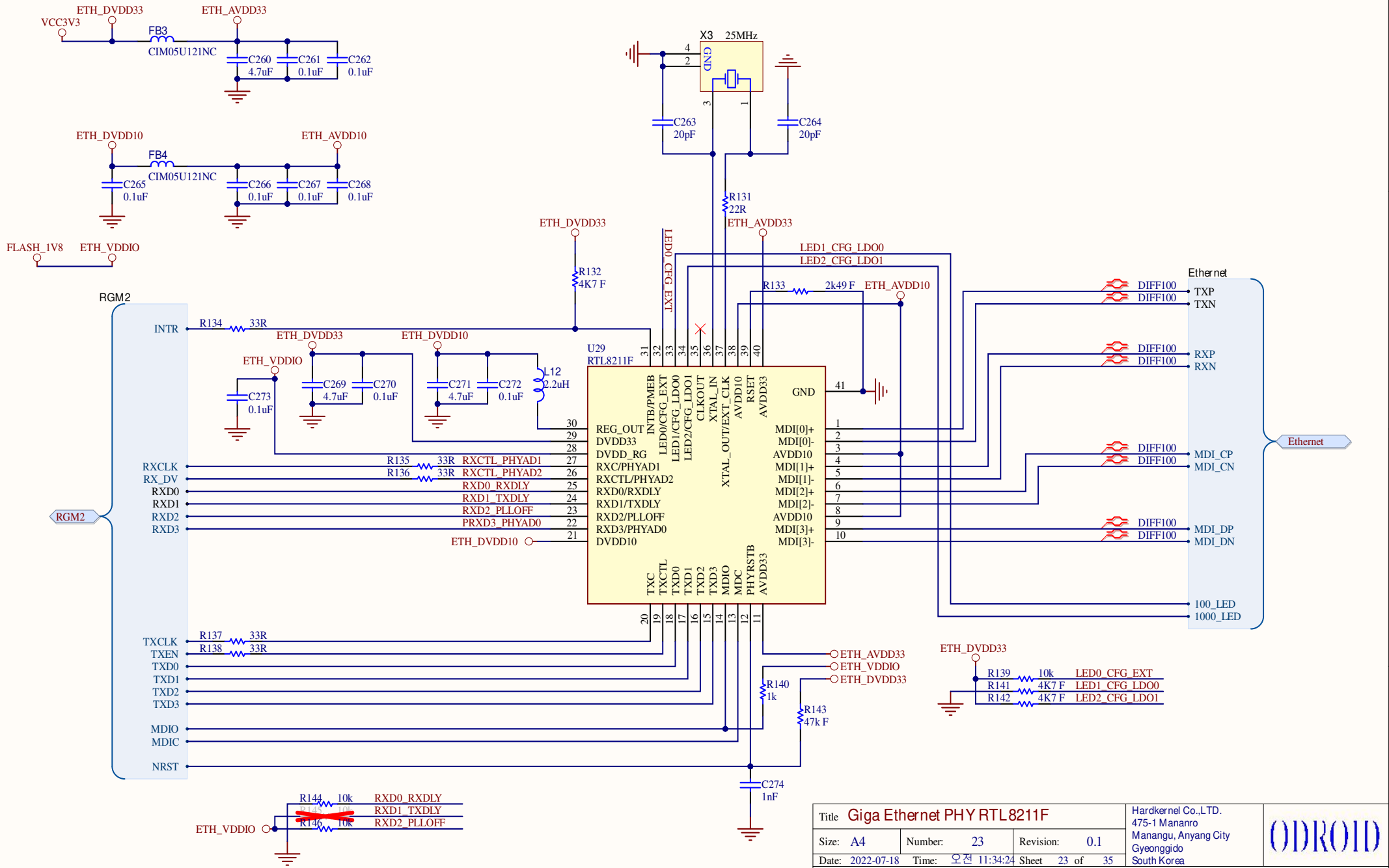


Title USB HOST Power Switch			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea		
Size: A4	Number: 21	Revision: 0.1			
Date: 2022-07-18	Time: 오전 11:34:24	Sheet 21 of 35			
File: JW7111SDFNB.SchDoc			Designed by: ruppi kim@hardkernel.com		

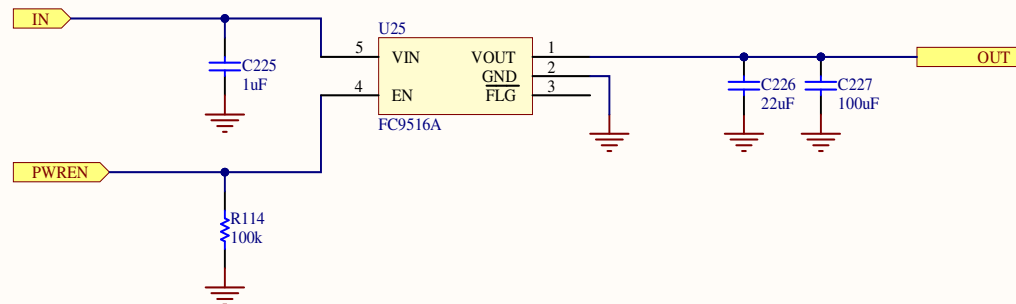


Title			USB HOST Power Switch			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea			ODROID
Size: A4		Number: 21		Revision: 0.1					
Date: 2022-07-18		Time: 오전 11:34:24		Sheet 21 of 35					
File: JW7111SDFNB.SchDoc						Designed by: ruppi.kim@hardkernel.com			

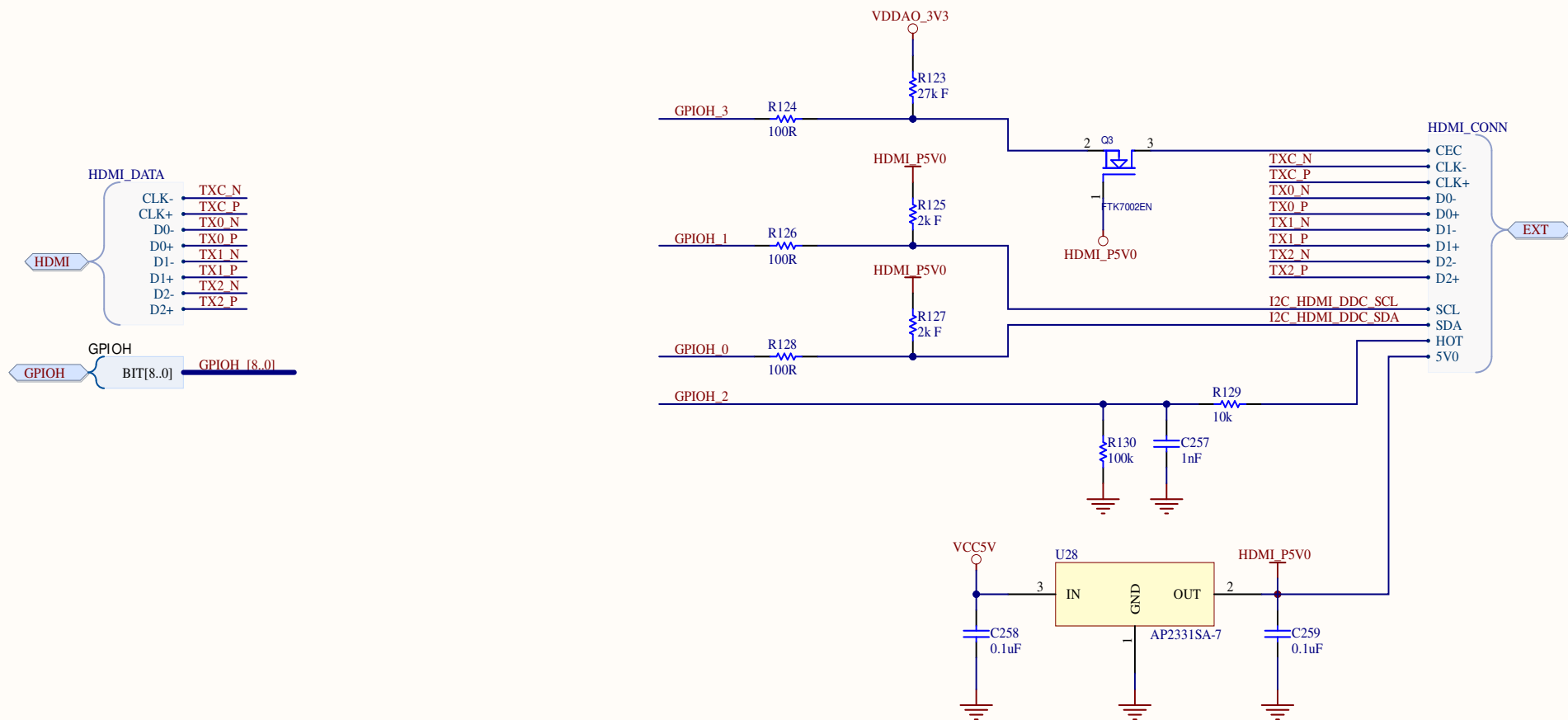




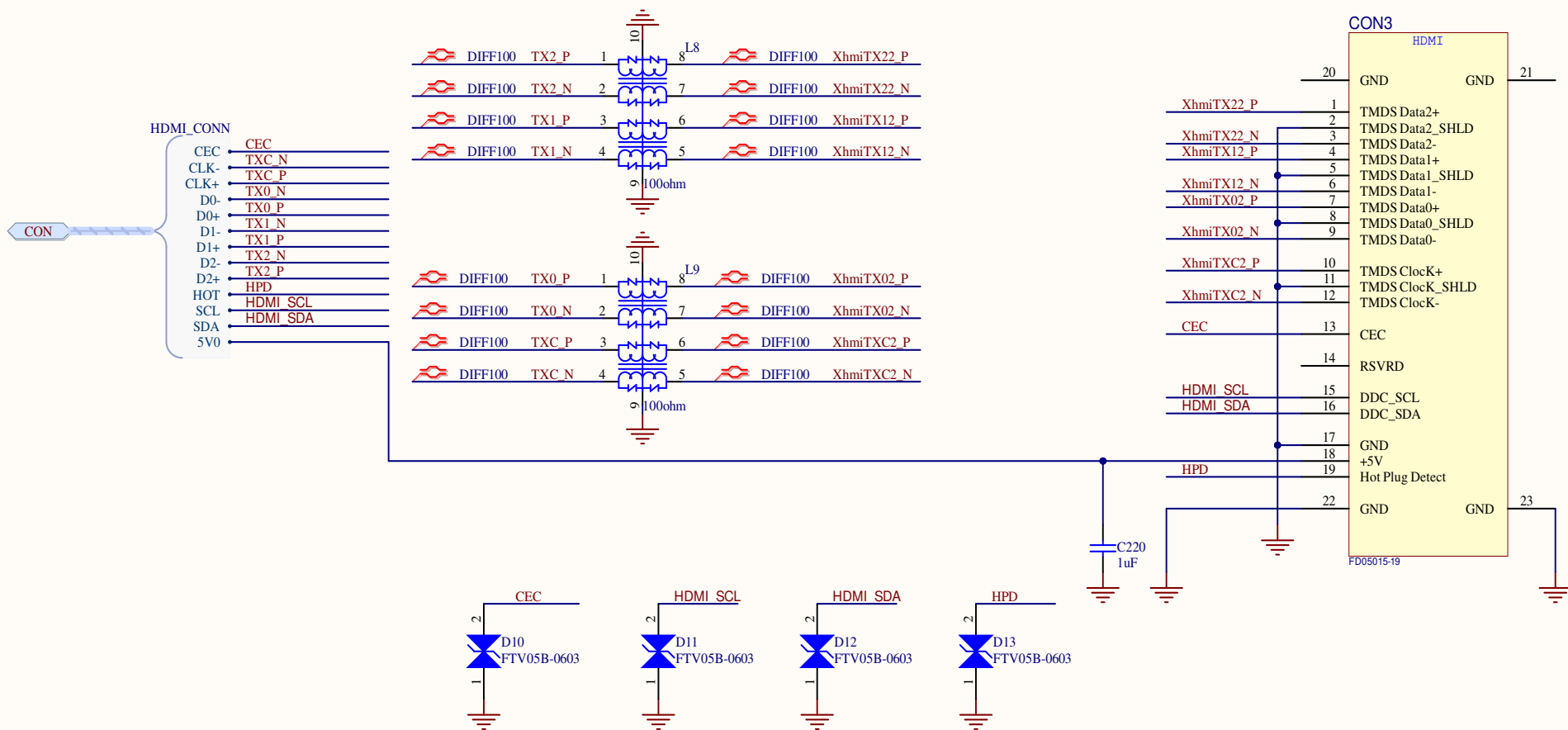
Title Giga Ethernet PHY RTL8211F			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea		
Size: A4	Number: 23	Revision: 0.1			
Date: 2022-07-18	Time: 오전 11:34:24	Sheet 23 of 35	Designed by: ruppi.kim@hardkernel.com		
File: GIGA_ETHERNET_PHY_RT8211F.SchDoc					



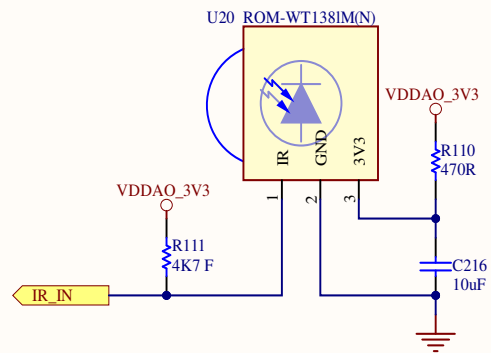
Title USB HOST PWR RT9715				Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggi-do South Korea		
Size: A4		Number: 24	Revision: 0.1			
Date: 2022-07-18		Time: 오전 11:34:24	Sheet 24 of 35			
File: RT9715EGB.SchDoc				Designed by: ruppi.kim@hardkernel.com		



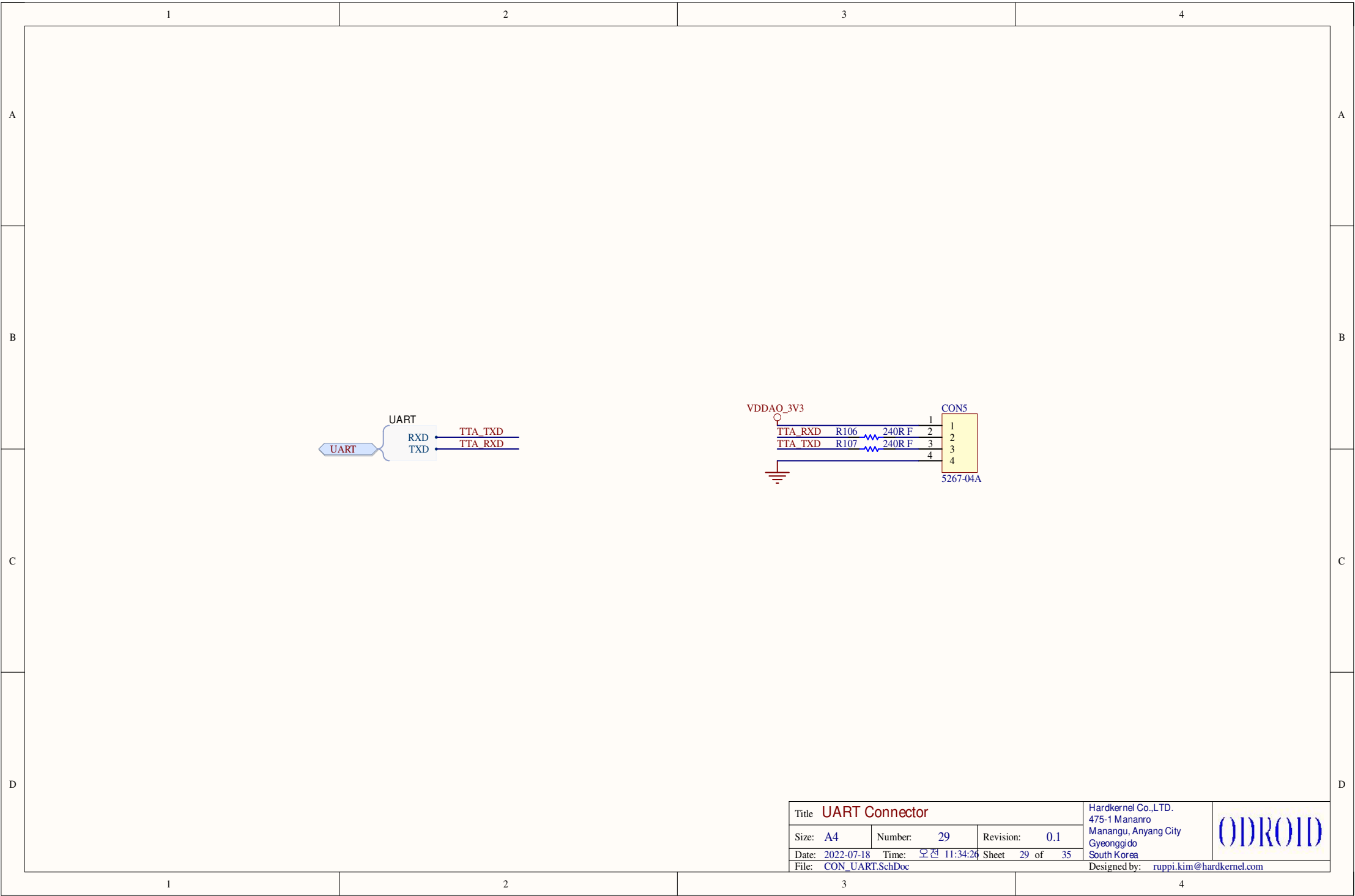
Title HDMI I2C			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea		ODROID
Size: A4	Number: 25	Revision: 0.1			
Date: 2022-07-18	Time: 오전 11:34:25	Sheet 25 of 35			
File: HDMI I2C.SchDoc			Designed by: ruppi.kim@hardkernel.com		

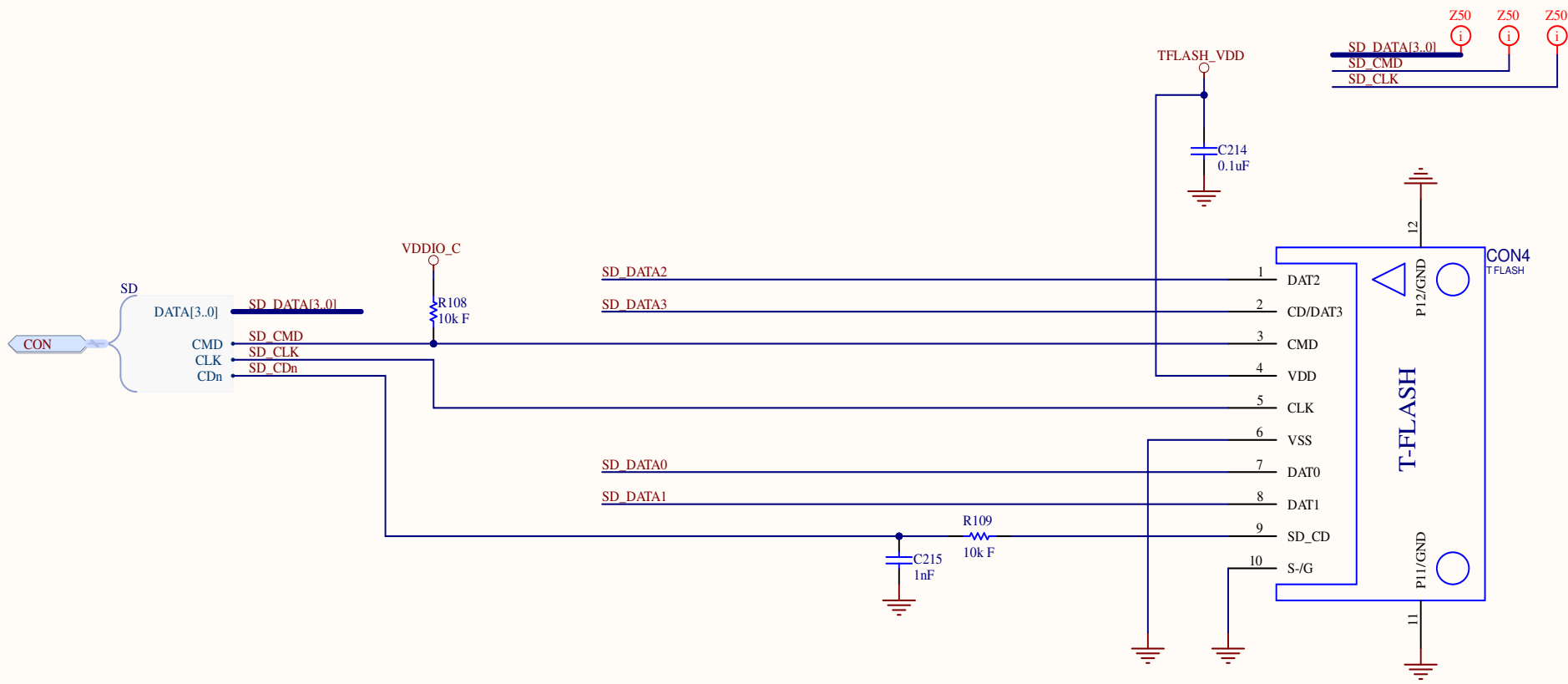


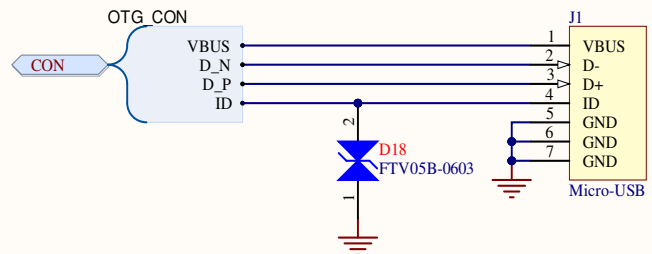
Title HDMI Connector			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea		ODROID
Size: A4	Number: 26	Revision: 0.1			
Date: 2022-07-18	Time: 오전 11:34:25	Sheet 26 of 35			
File: CON HDMI.SchDoc			Designed by: ruppi.kim@hardkernel.com		



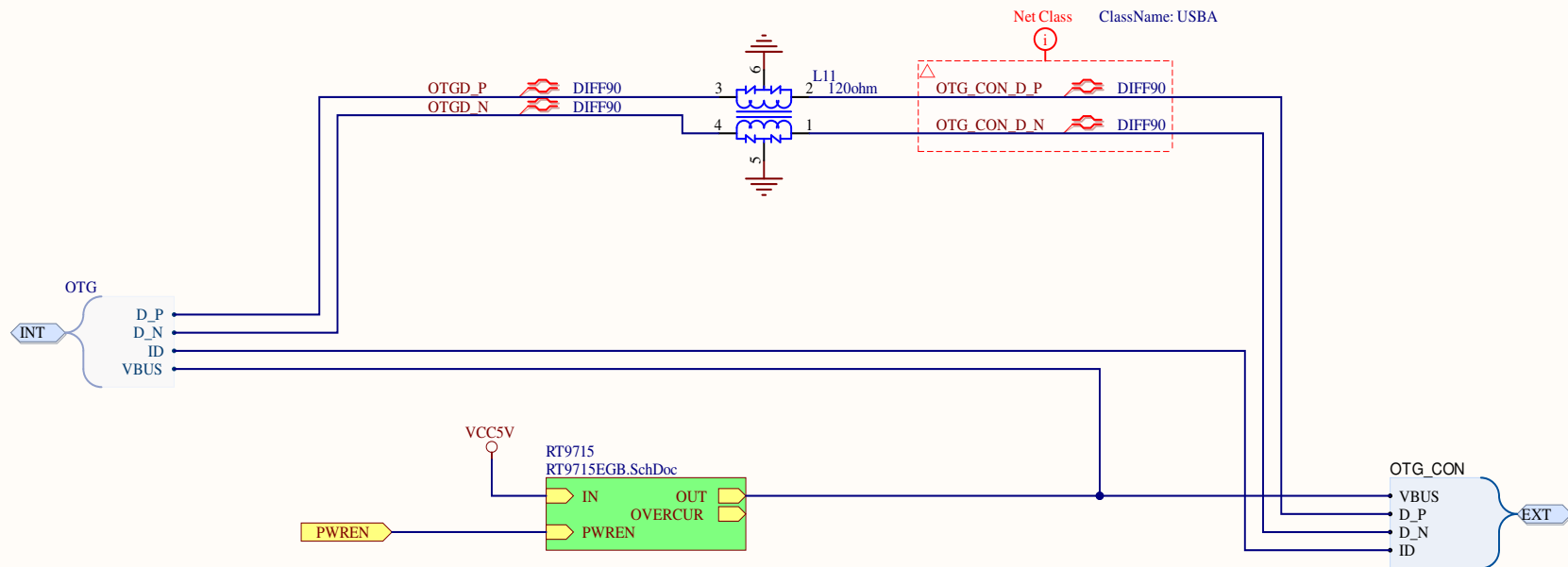
Title Remote Controller Receiver			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggi-do South Korea		ODROID
Size: A4	Number: 28	Revision: 0.1			
Date: 2022-07-18	Time: 오전 11:34:25	Sheet 28 of 35			
File: IR.SchDoc			Designed by: ruppi.kim@hardkernel.com		



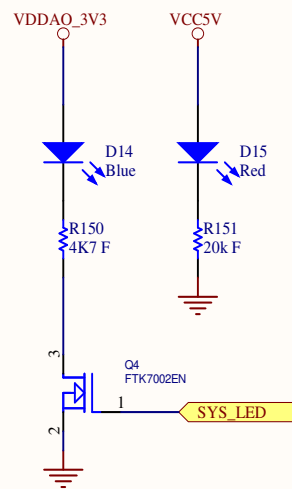




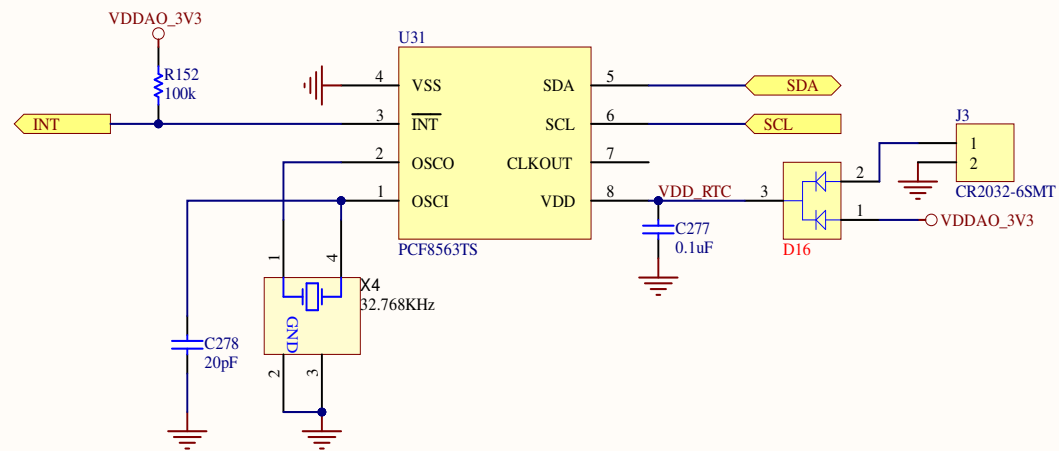
Title Micro USB Connector			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea		
Size: A4	Number: 31	Revision: 0.1			
Date: 2022-07-18	Time: 오전 11:34:26	Sheet 31 of 35			
File: CON_MICROUSB.SchDoc			Designed by: ruppi.kim@hardkernel.com		



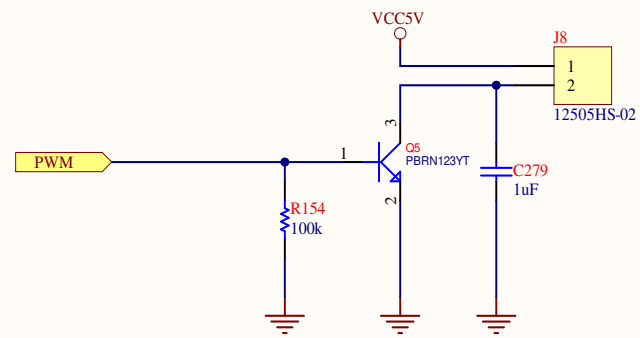
Title USB OTG Power Switch			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea		ODROID
Size: A4	Number: 32	Revision: 0.1			
Date: 2022-07-18	Time: 오전 11:34:26	Sheet 32 of 35			
File: USB_OTG.SchDoc			Designed by: ruppi.kim@hardkernel.com		



Title PWR SYSTEM LEDs			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea		
Size: A4	Number: 33	Revision: 0.1			
Date: 2022-07-18	Time: 오전 11:34:27	Sheet 33 of 35			
File: C_LEDS.SchDoc			Designed by: *@hardkernel.com		



Title RTC PCF8563			R&D PART 704 Anyang K-center 1591-9		
Size: A4	Number: 34	Revision: 0.1	Burim Dongan Gu		
Date: 2022-07-18	Time: 오전 11:34:27	Sheet 34 of 35	Gyeonggido		
File: RTC_PCF8663.SchDoc			South Korea		
Designed by: john lee					



Title *			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea		ODROID
Size: A4	Number: 1	Revision: 0.1			
Date: 2022-07-18	Time: 오전 11:34:27	Sheet * of 1			
File: CON_FAN.SchDoc			Designed by: *@hardkernel.com		