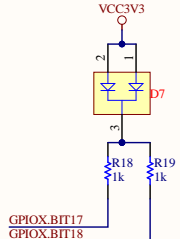
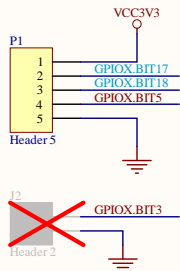
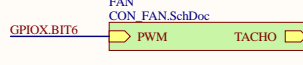
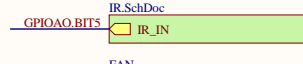
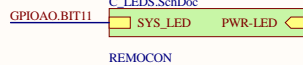
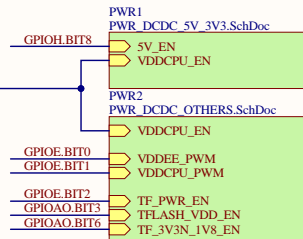
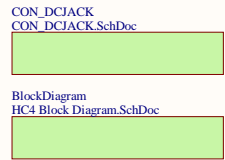
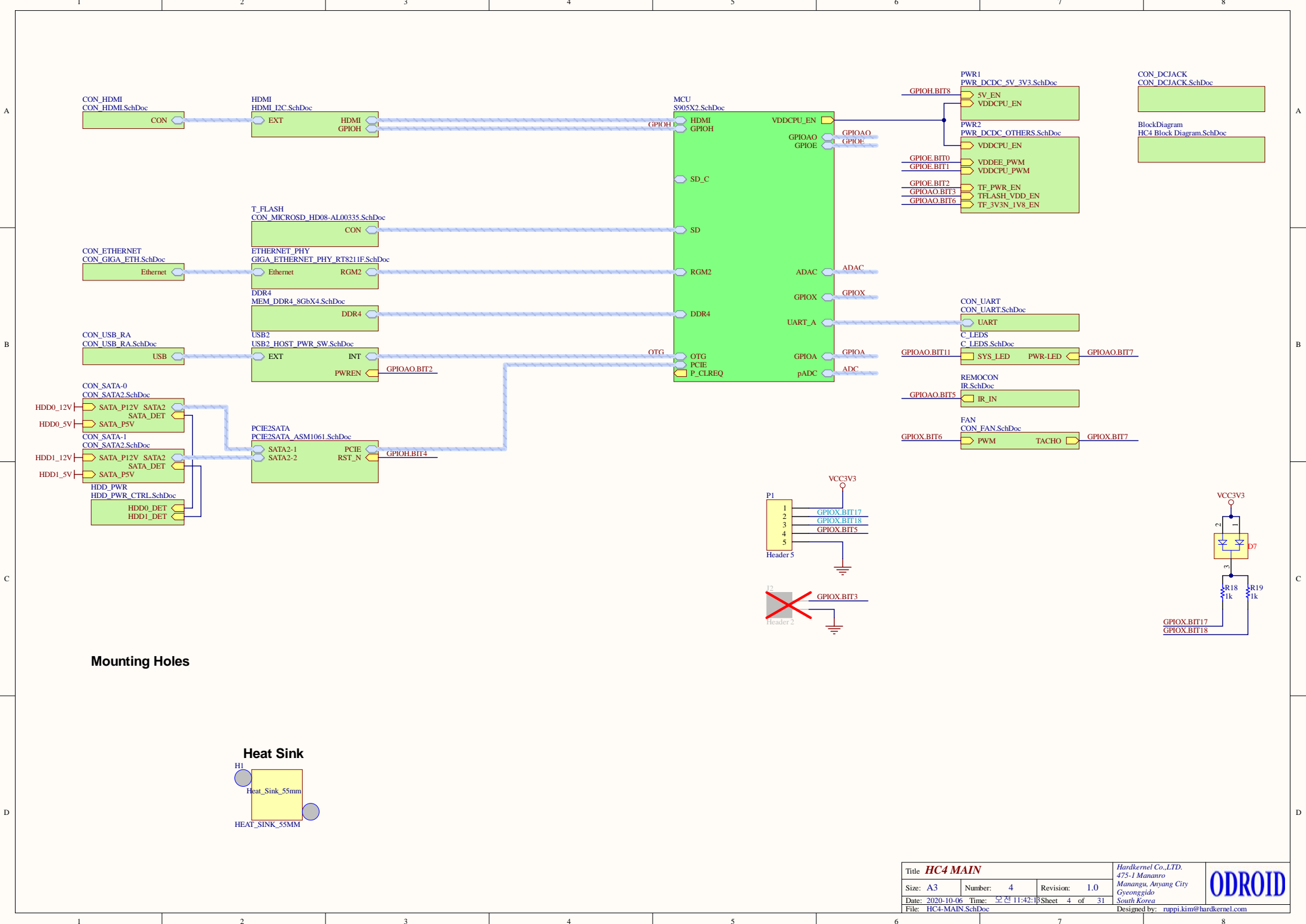
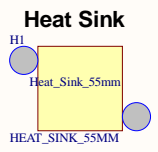


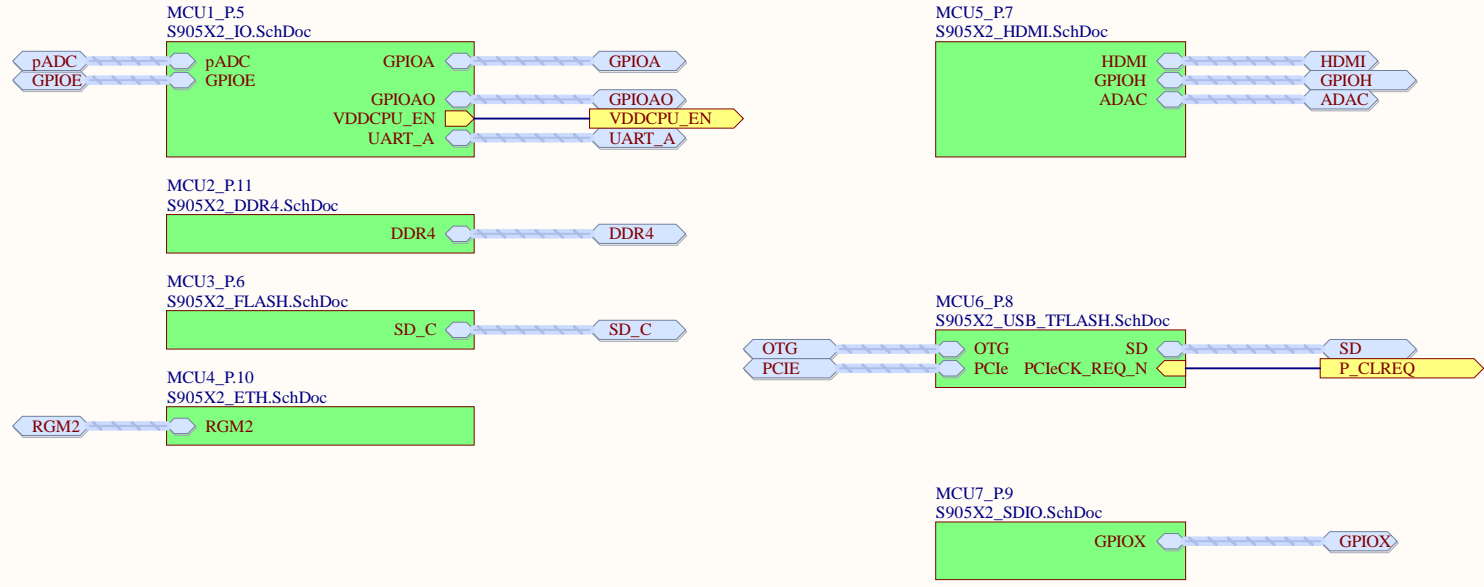
Title <b>HC4 Block Diagram</b>		Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea		<b>ODROID</b>
Size: A4	Number: 1	Revision: 0.1		
Date: 2020-10-06	Time: 오전 11:42:12	Sheet 1 of 31		
File: HC4 Block Diagram.SchDoc			Designed by: ruppi.kim@hardkernel.com	



Mounting Holes

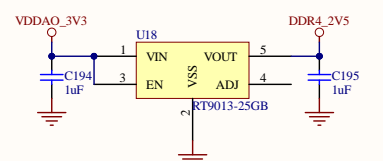
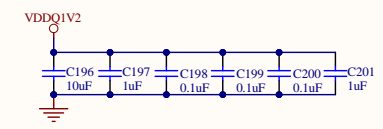
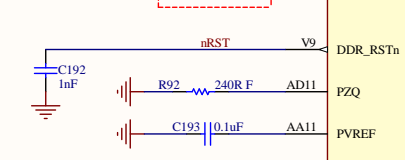
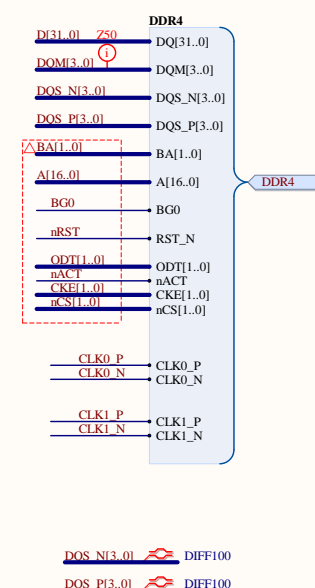
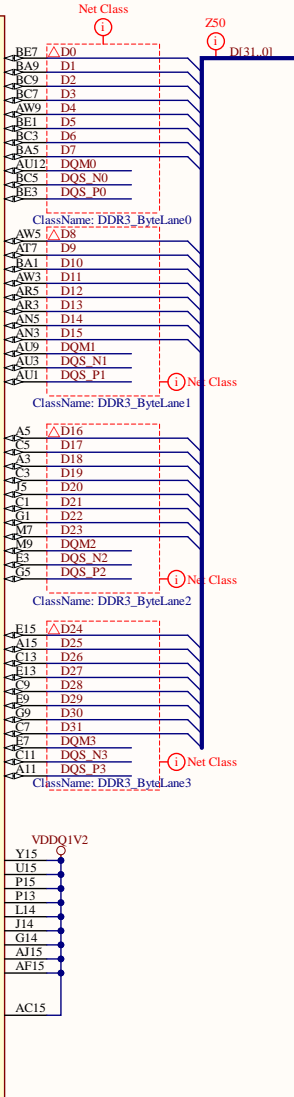
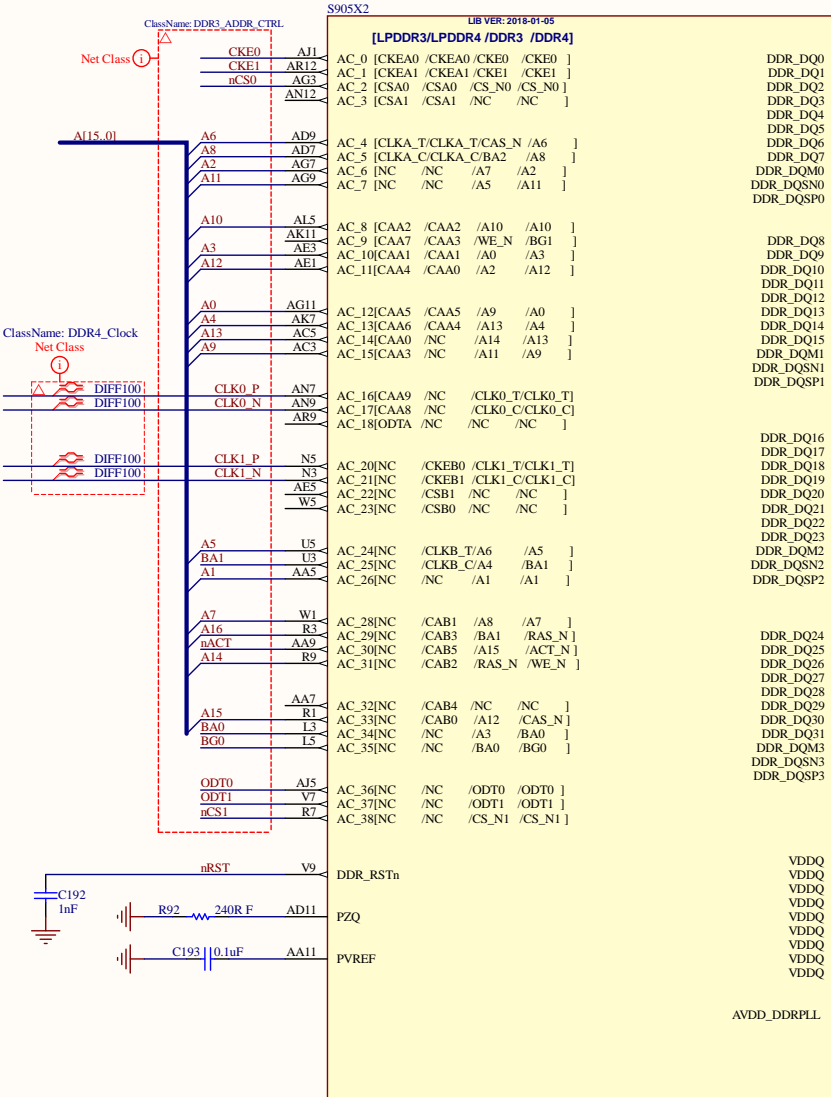


Title <b>HC4 MAIN</b>			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea	<b>ODROID</b>
Size: A3	Number: 4	Revision: 1.0	Designed by: ruppi.kim@hardkernel.com	
Date: 2020-10-06	Time: 오전 11:42:18	Sheet 4 of 31		
File: HC4-MAIN.SchDoc				



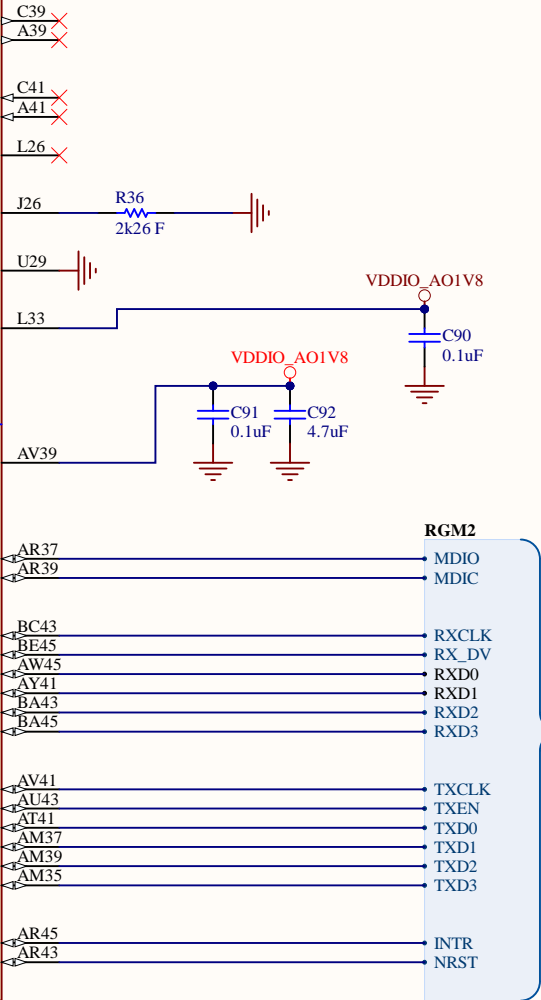
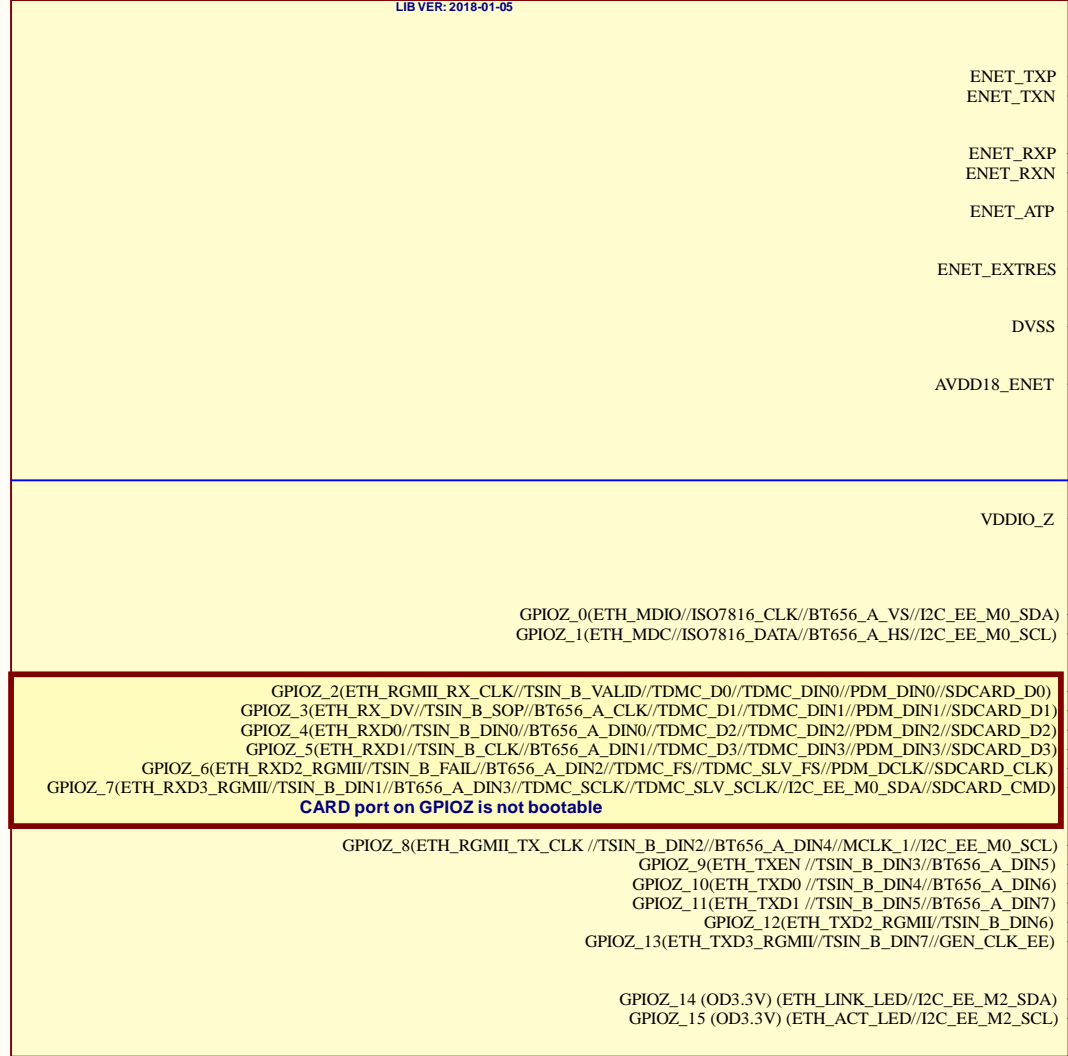
Title <b>S905X2</b>			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea	
Size: A4	Number: 5	Revision: 0.1	Designed by: <a href="mailto:ruppi.kim@hardkernel.com">ruppi.kim@hardkernel.com</a>	
Date: 2020-10-06	Time: 오전 11:42:13	Sheet 5 of 31		
File: S905X2.SchDoc				





S905X2

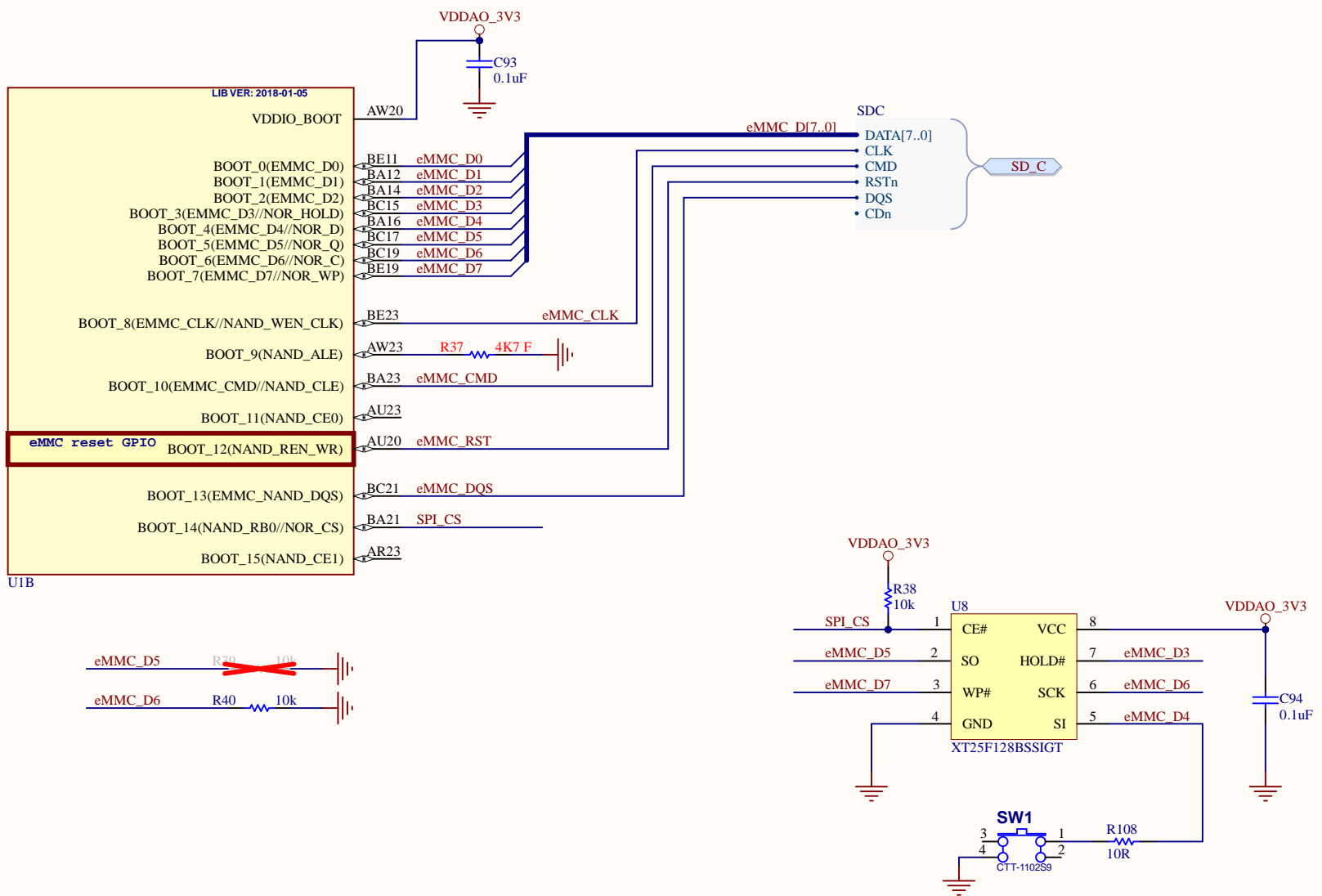
LIB VER: 2018-01-05



UIG

Title <b>S905X2_ETH</b>			Hardkernel Co., LTD 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea	
Size: A4	Number: 11	Revision: 0.1		
Date: 2020-10-06	Time: 오전 11:42:13	Sheet 11 of 31		
File: S905X2_ETH.SchDoc			Designed by: neal.kim@hardkernel.com	

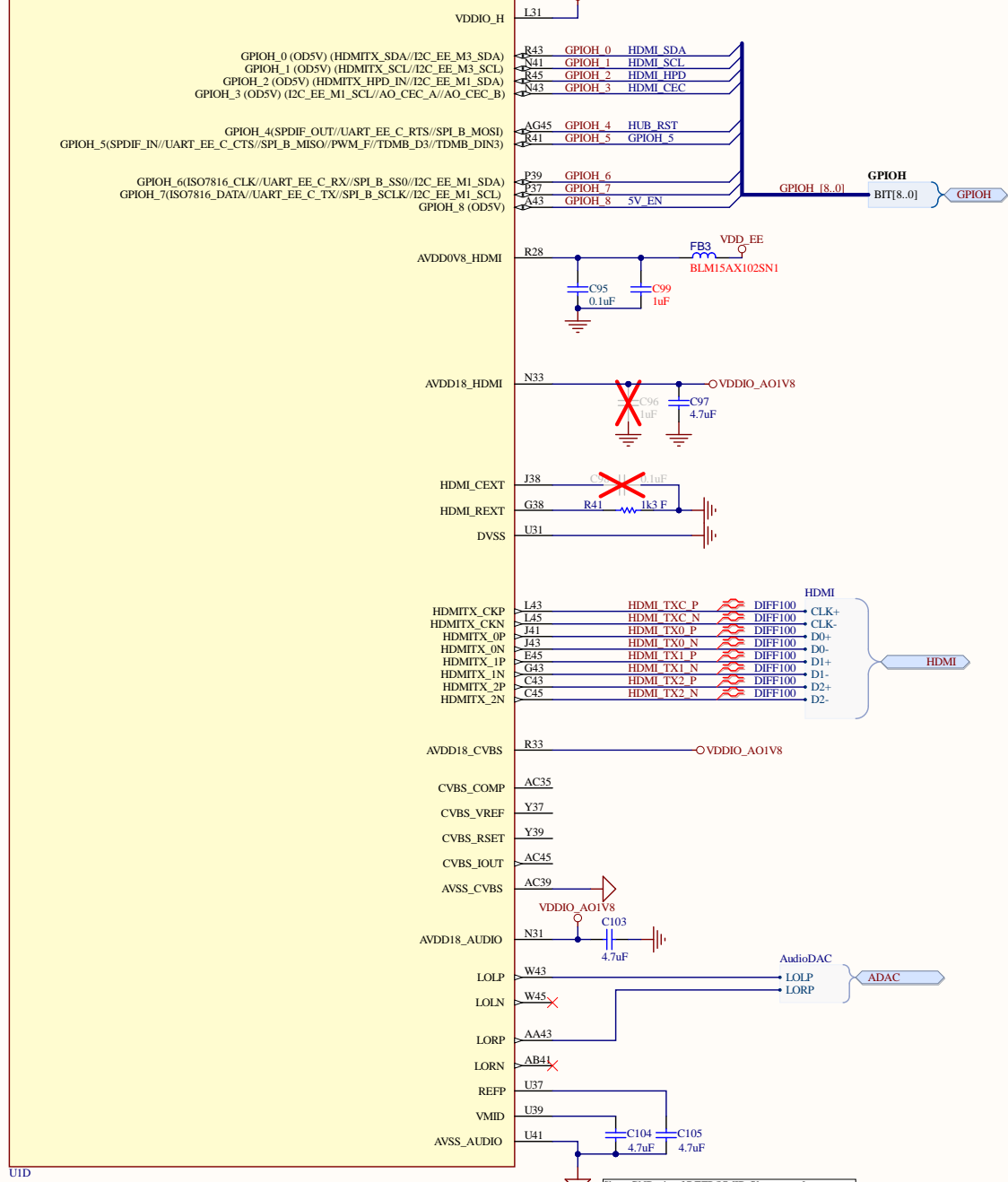




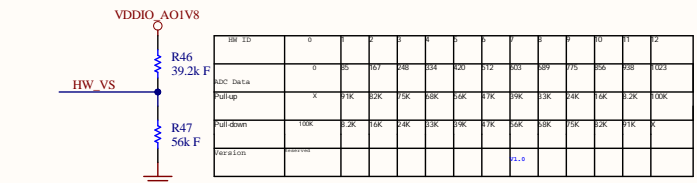
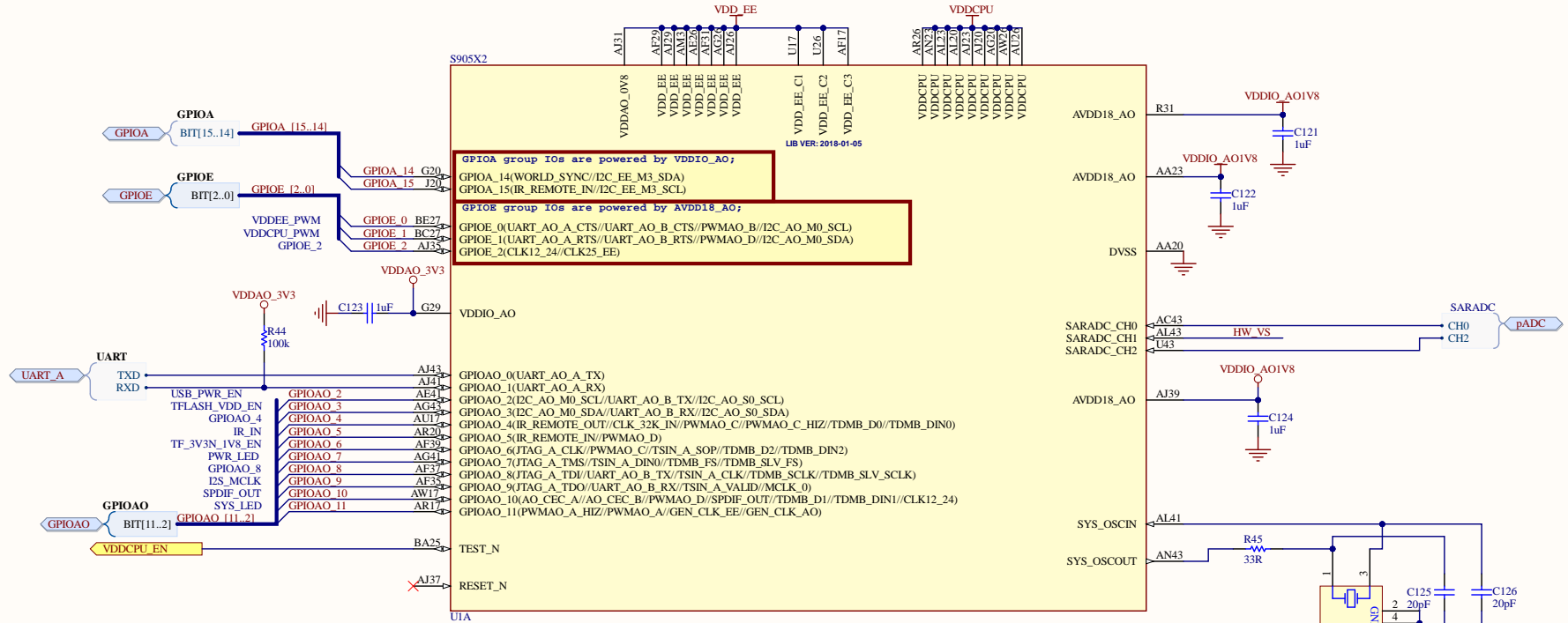
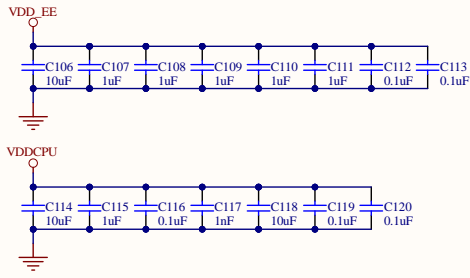
Title <b>S905X2_FLASH</b>			Hardkernel Co., LTD. 475-1 Mananro Manangu, Anyang City Kyeonggido South Korea		<b>ODROID</b>
Size: A4	Number: 7	Revision: 0.1	Designed by: neal.kim@hardkernel.com		
Date: 2020-10-06	Time: 2020.10.06 11:42:13	Sheet 7 of 31			
File: S905X2_FLASH.SchDoc					

S905X2

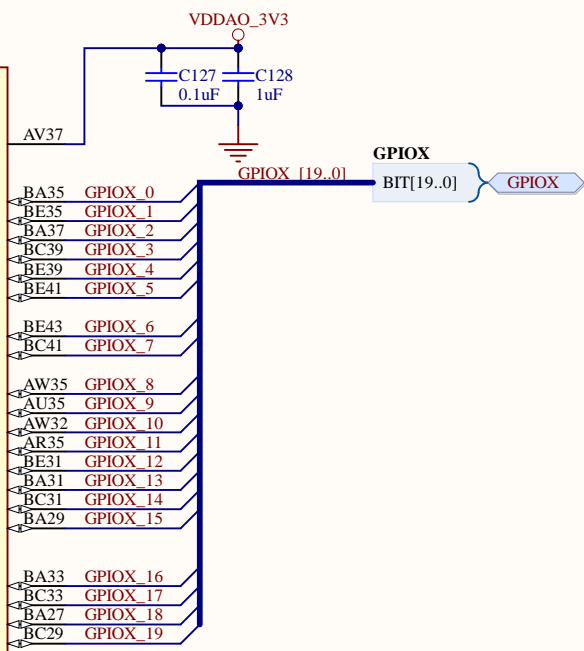
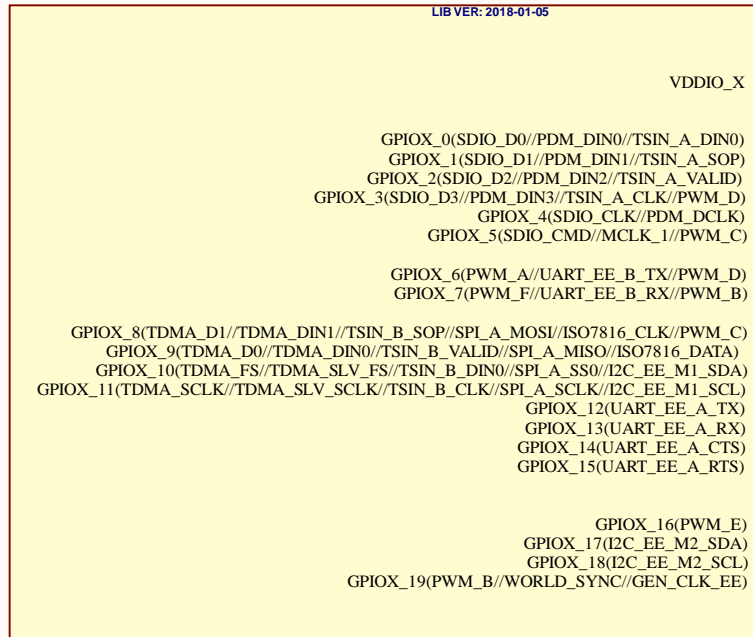
LIB VER: 2018-01-05



Short GND pin of REFP/VMID filter caps & AVSS\_AUDIO together, then to GND (single point connection)

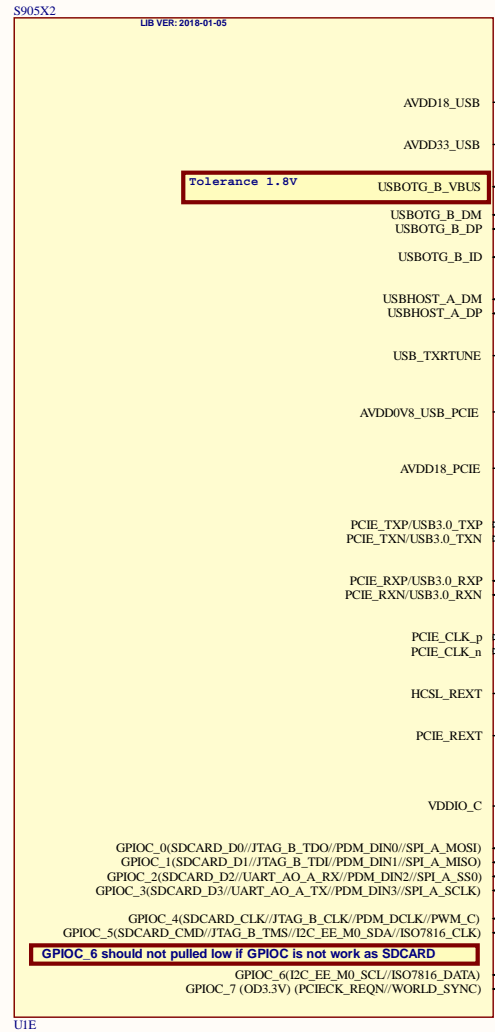
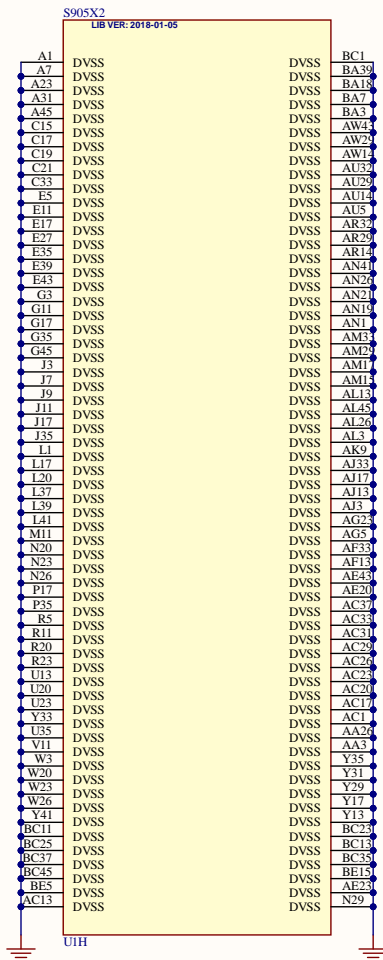




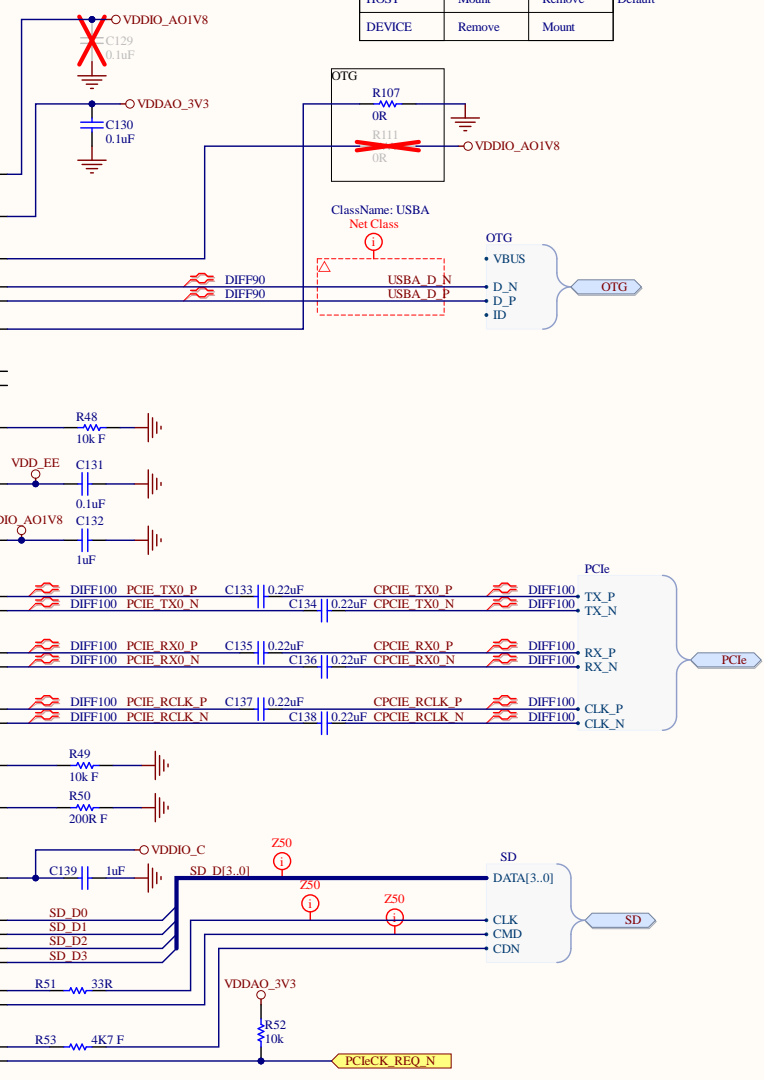


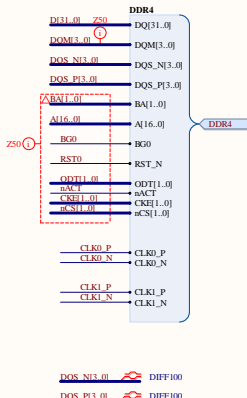
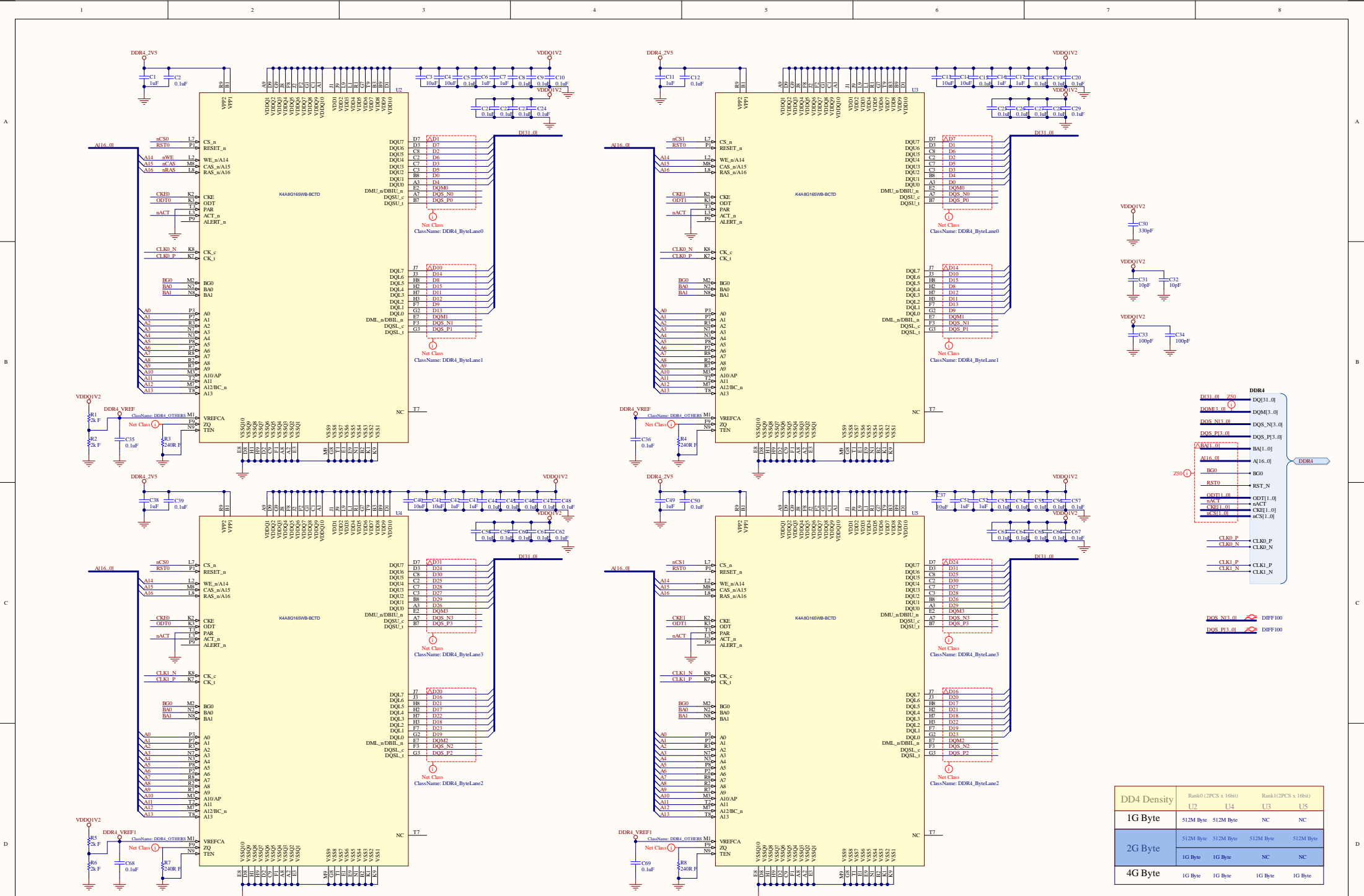
UIF

Title <b>S905X2_SDIO</b>		Hardkernel Co., LTD 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea		<b>ODROID</b>
Size: A4	Number: 10	Revision: 0.1		
Date: 2020-10-06	Time: 오전 11:42:13	Sheet 10 of 31		
File: S905X2_SDIO.SchDoc			Designed by: neal.kim@hardkernel.com	

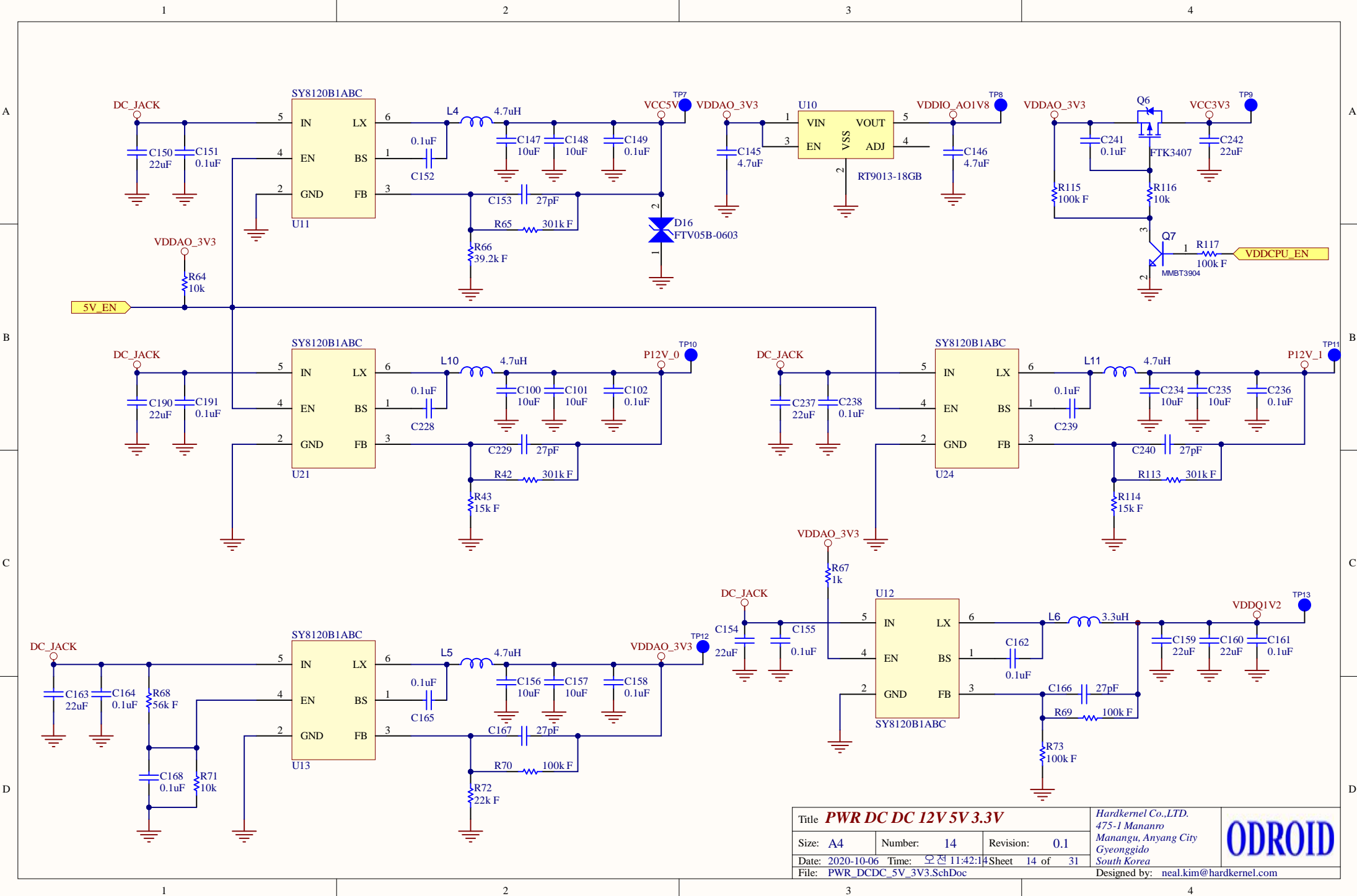


USB MODE	R107	R111	Default
HOST	Mount	Remove	
DEVICE	Remove	Mount	

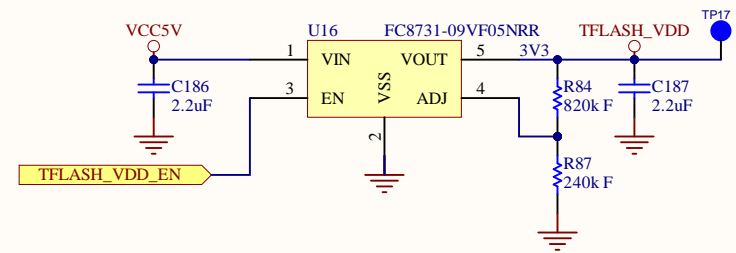
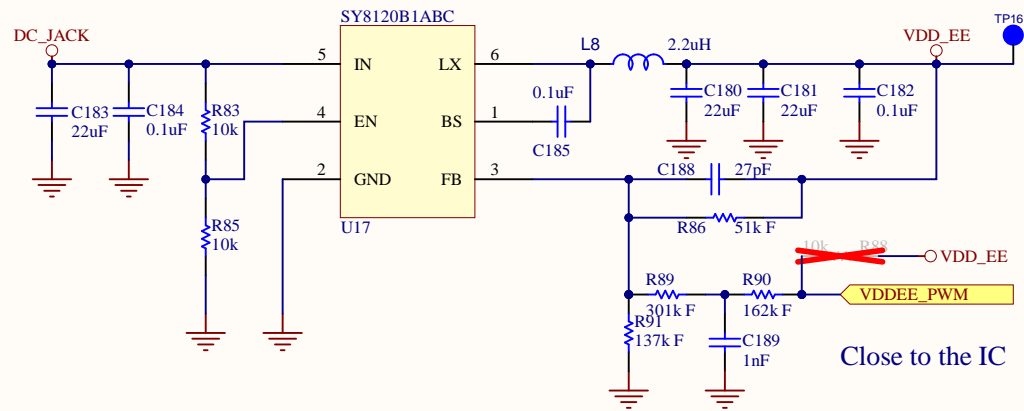
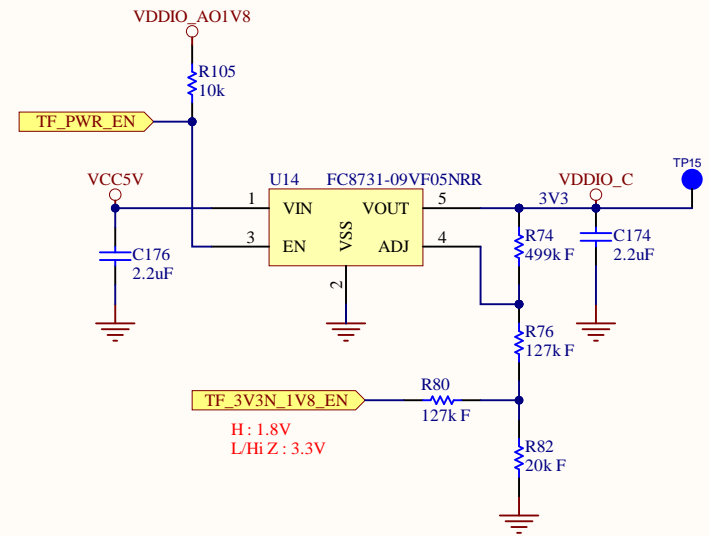
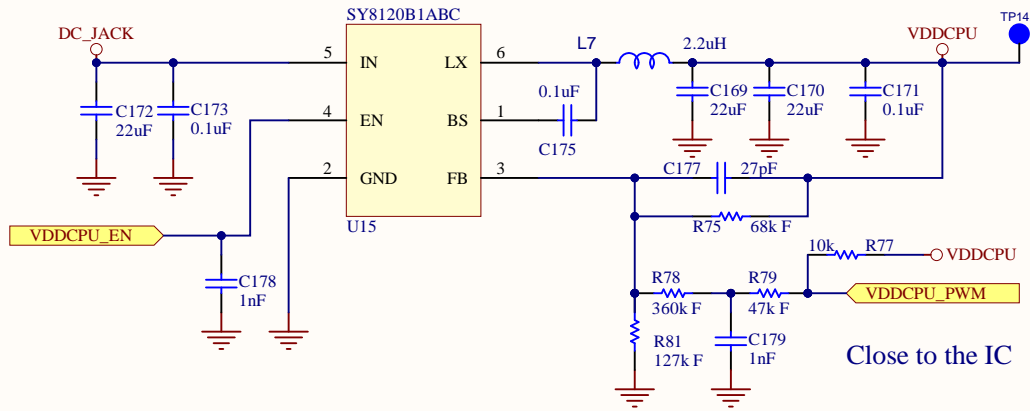





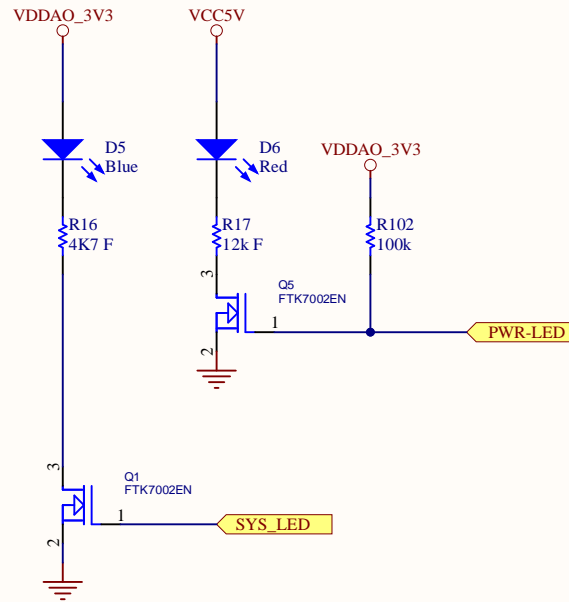
DD4 Density	Rank0 (2PCS x 16Gb)		Rank1 (2PCS x 16Gb)	
	U2	U4	U3	U5
1G Byte	512M Byte	512M Byte	NC	NC
2G Byte	512M Byte	512M Byte	512M Byte	512M Byte
	1G Byte	1G Byte	NC	NC
4G Byte	1G Byte	1G Byte	1G Byte	1G Byte



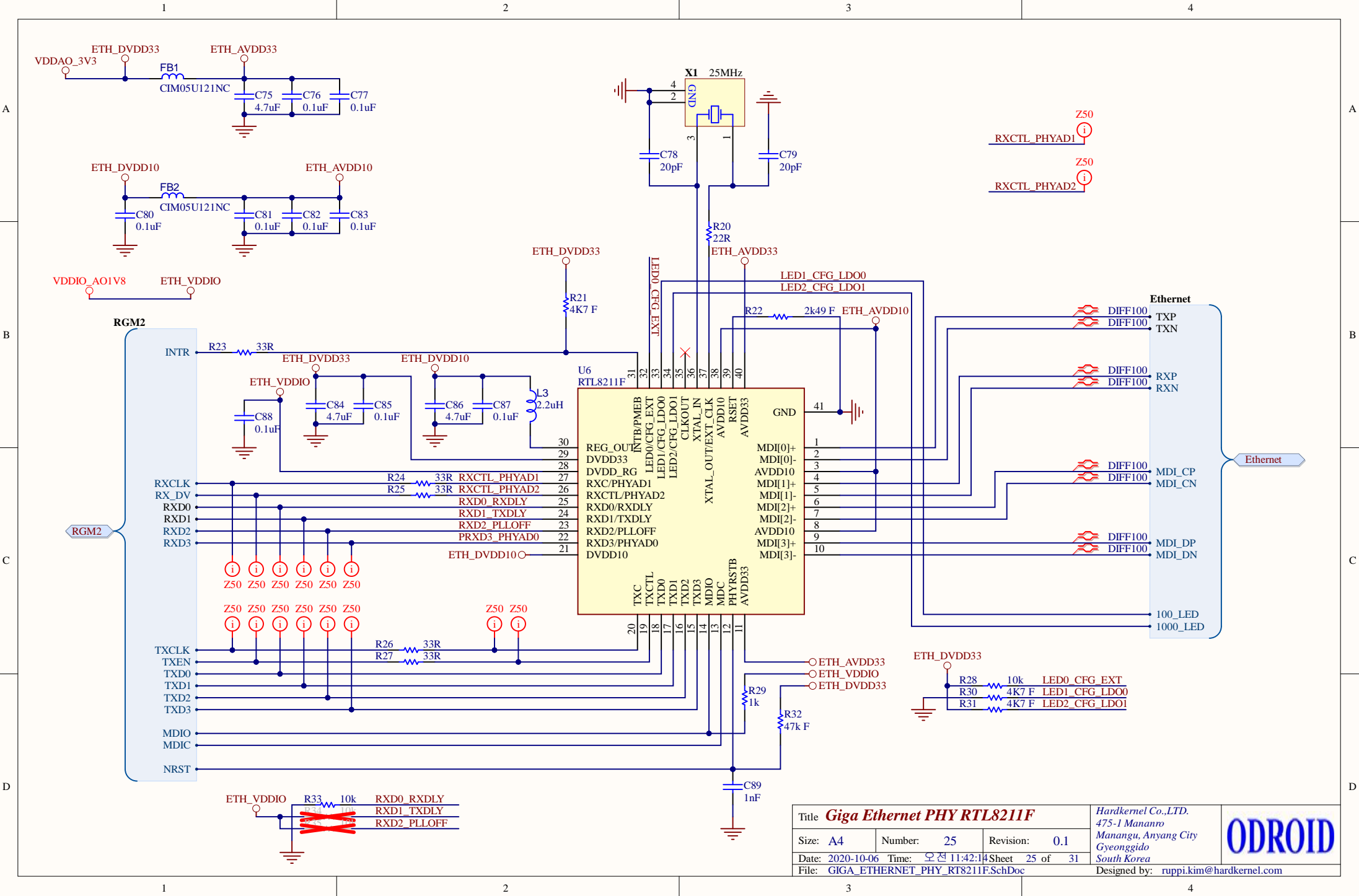
Title <b>PWR DC DC 12V 5V 3.3V</b>			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea	<b>ODROID</b>
Size: A4	Number: 14	Revision: 0.1		
Date: 2020-10-06	Time: 2020.10.06 11:42:14	Sheet 14 of 31	Designed by: neal.kim@hardkernel.com	
File: PWR_DCDC_5V_3V3.SchDoc				



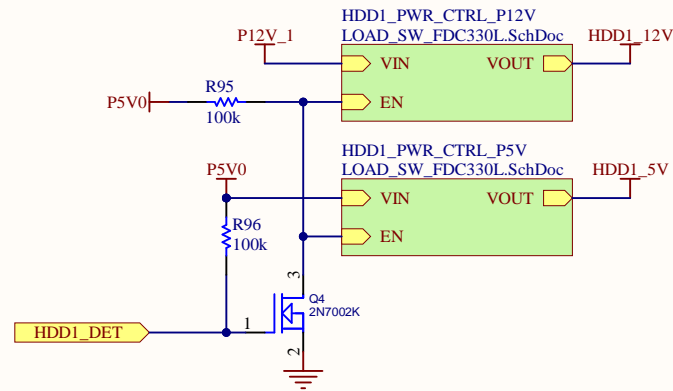
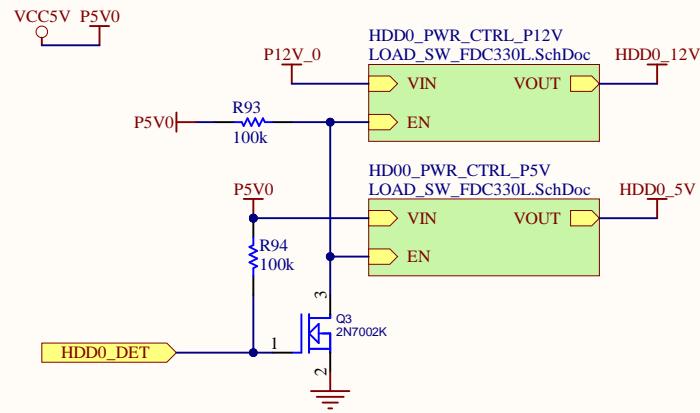
Title <b>PWR DC DC Others</b>			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea	
Size: A4	Number: 15	Revision: 0.1		
Date: 2020-10-06	Time: 오전 11:42:14	Sheet 15 of 31		
File: PWR_DCDC_OTHERS.SchDoc			Designed by: neal.kim@hardkernel.com	



Title <b>PWR SYSTEM LEDs</b>			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea	
Size: A4	Number: 21	Revision: 0.1	<b>ODROID</b>	
Date: 2020-10-06	Time: 오전 11:42:14	Sheet 21 of 31		
File: C_LEDS.SchDoc				
Designed by: ruppi.kim@hardkernel.com				

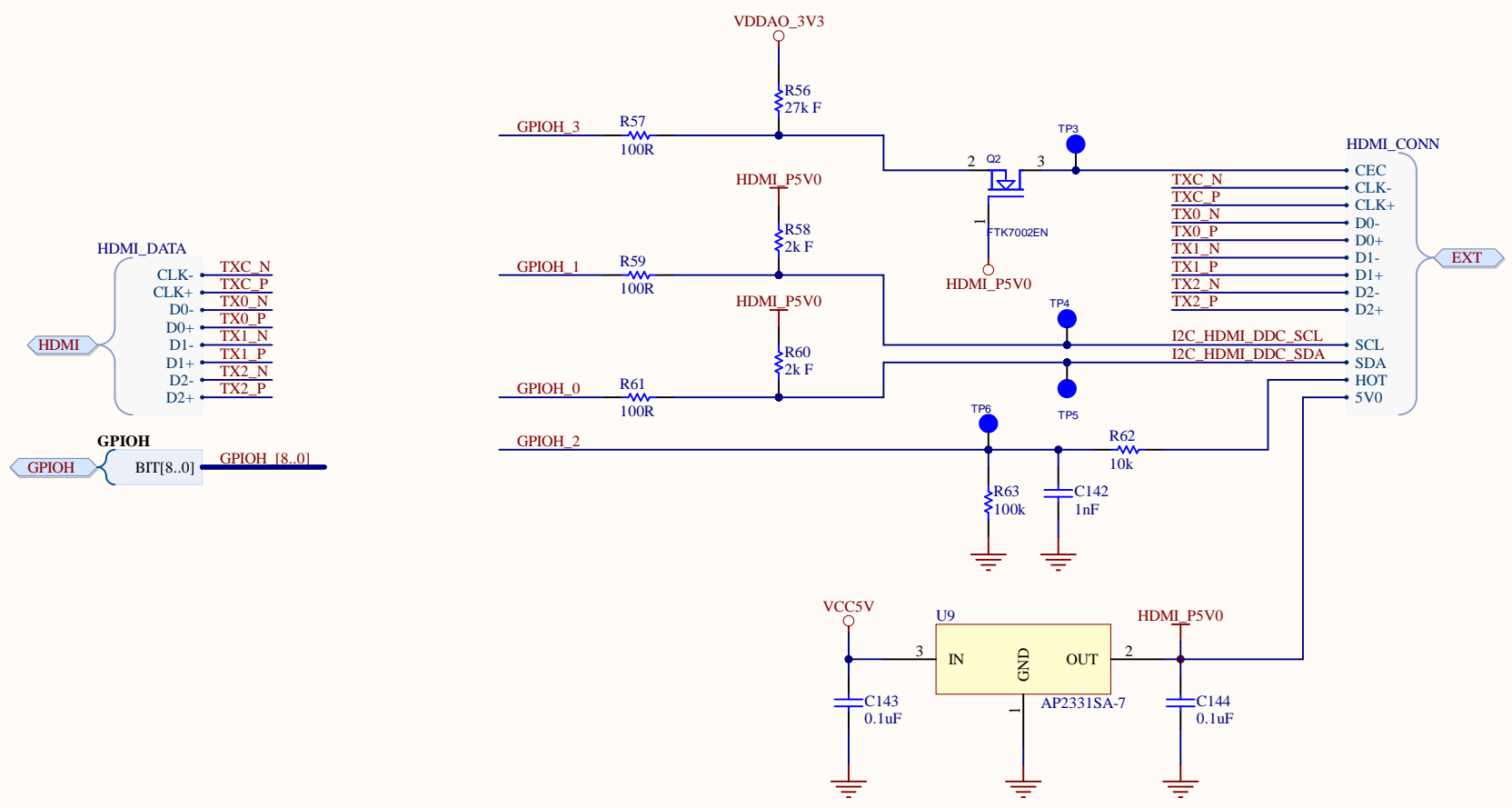


Title <b>Giga Ethernet PHY RTL8211F</b>		Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea	
Size: A4	Number: 25	Revision: 0.1	<b>ODROID</b>
Date: 2020-10-06	Time: 2020.10.06 11:42:14	Sheet 25 of 31	
File: GIGA_ETHERNET_PHY_RT8211F.SchDoc			
Designed by: ruppi.kim@hardkernel.com			

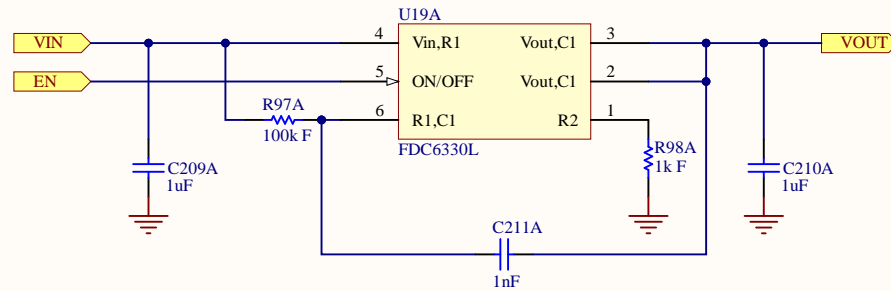


Title <b>HDD PWR Control</b>			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea	<b>ODROID</b>
Size: A4	Number: 20	Revision: 0.1		
Date: 2020-10-06	Time: 2020-10-06 11:42:14	Sheet 20 of 31		
File: HDD_PWR_CTRL.SchDoc			Designed by: ruppi.kim@hardkernel.com	



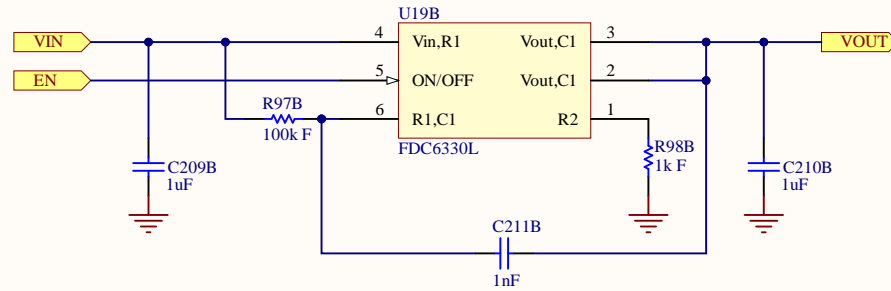



Title <b>HDMI I2C</b>			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea		<b>ODROID</b>
Size: A4	Number: 16	Revision: 0.1			
Date: 2020-10-06	Time: 오전 11:42:14	Sheet 16 of 31			
File: HDMI_I2C.SchDoc			Designed by: ruppi.kim@hardkernel.com		

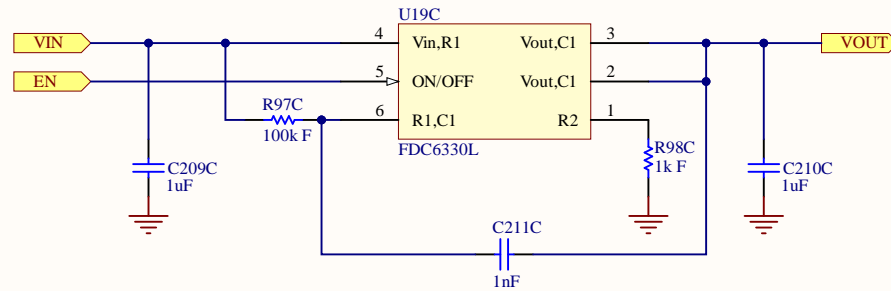



Title <b>LOAD SW FDC330L</b>			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea	
Size: A4	Number: 18	Revision: 0.1		
Date: 2020-10-06	Time: 오전 11:42:14	Sheet 18 of 31		
File: LOAD_SW_FDC330L.SchDoc			Designed by: ruppi.kim@hardkernel.com	

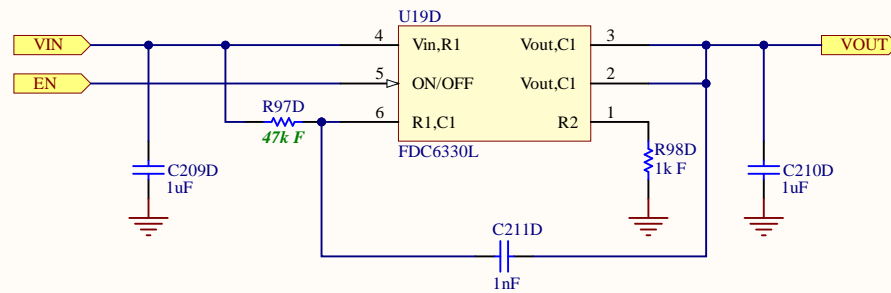




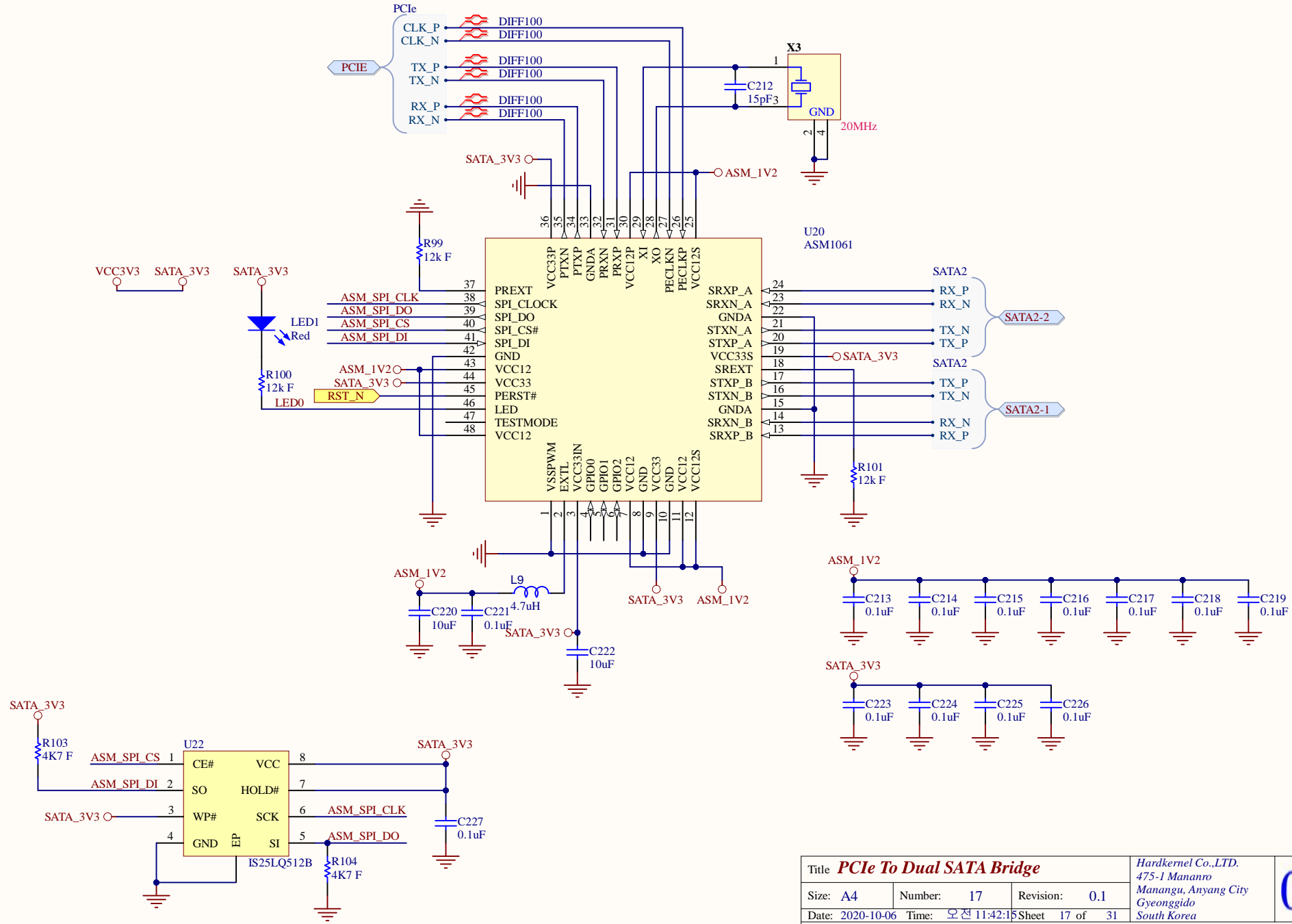
Title <b>LOAD SW FDC330L</b>			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea	
Size: A4	Number: 18	Revision: 0.1		
Date: 2020-10-06	Time: 오전 11:42:15	Sheet 18 of 31		
File: LOAD_SW_FDC330L.SchDoc			Designed by: ruppi.kim@hardkernel.com	



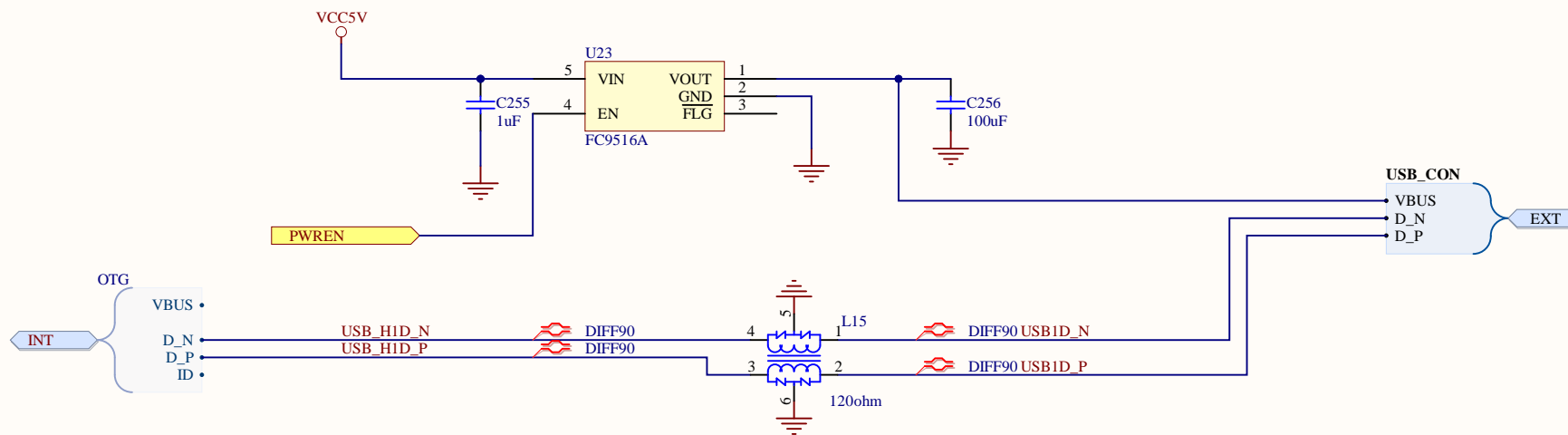
Title <b>LOAD SW FDC330L</b>			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea	
Size: A4	Number: 18	Revision: 0.1		
Date: 2020-10-06	Time: 오전 11:42:15	Sheet 18 of 31		
File: LOAD_SW_FDC330L.SchDoc			Designed by: ruppi.kim@hardkernel.com	



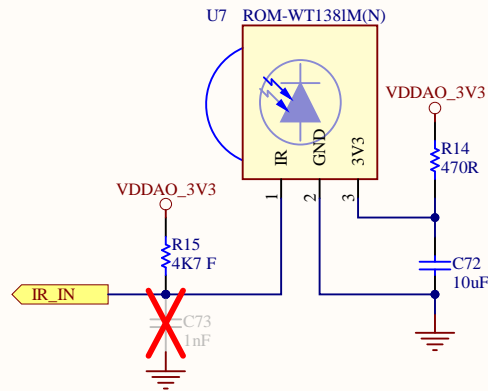
Title <b>LOAD SW FDC330L</b>			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea	<b>ODROID</b>
Size: A4	Number: 18	Revision: 0.1		
Date: 2020-10-06	Time: 오전 11:42:15	Sheet 18 of 31	Designed by: ruppi.kim@hardkernel.com	
File: LOAD_SW_FDC330L.SchDoc				



Title <b>PCIe To Dual SATA Bridge</b>			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea		<b>ODROID</b>
Size: A4	Number: 17	Revision: 0.1			
Date: 2020-10-06	Time: 2020.10.06 11:42:15	Sheet 17 of 31			
File: PCIE2SATA_ASM1061.SchDoc			Designed by: ruppi.kim@hardkernel.com		



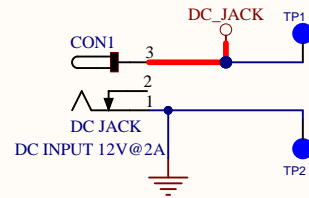
Title <b>USB HOST PWR SW</b>			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea	<b>ODROID</b>
Size: A4	Number: 22	Revision: 0.1		
Date: 2020-10-06	Time: 오전 11:42:15	Sheet 22 of 31		
File: USB2_HOST_PWR_SW.SchDoc			Designed by: ruppi.kim@hardkernel.com	



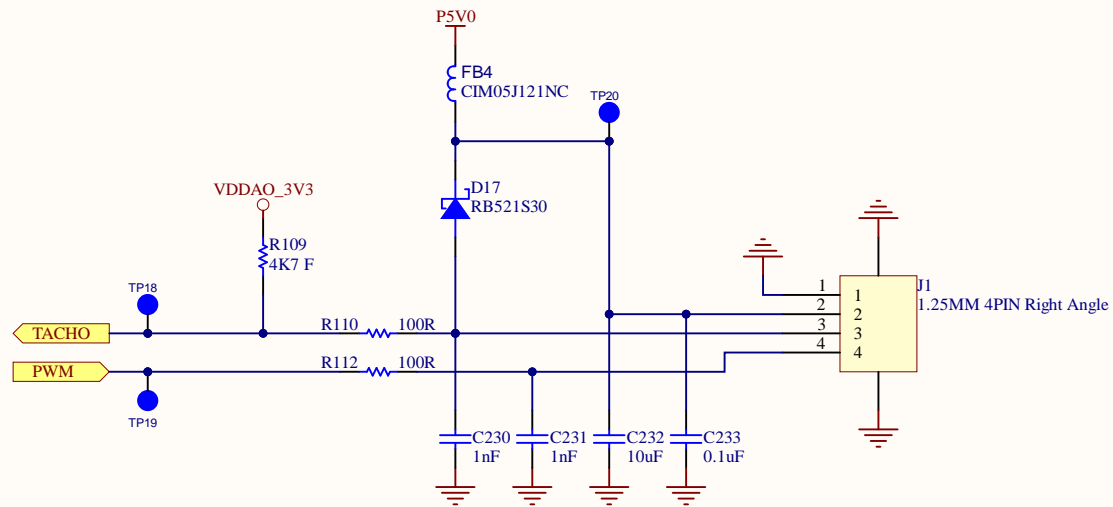
Title <b>Remote Controller Receiver</b>			Hardkernel Co.,LTD. 475-1 Mananro
Size: A4	Number: 19	Revision: 0.1	Manangu, Anyang City
Date: 2020-10-06	Time: 오전 11:42:15	Sheet 19 of 31	Gyeongido
File: IR.SchDoc			South Korea
			Designed by: <a href="mailto:ruppi.kim@hardkernel.com">ruppi.kim@hardkernel.com</a>





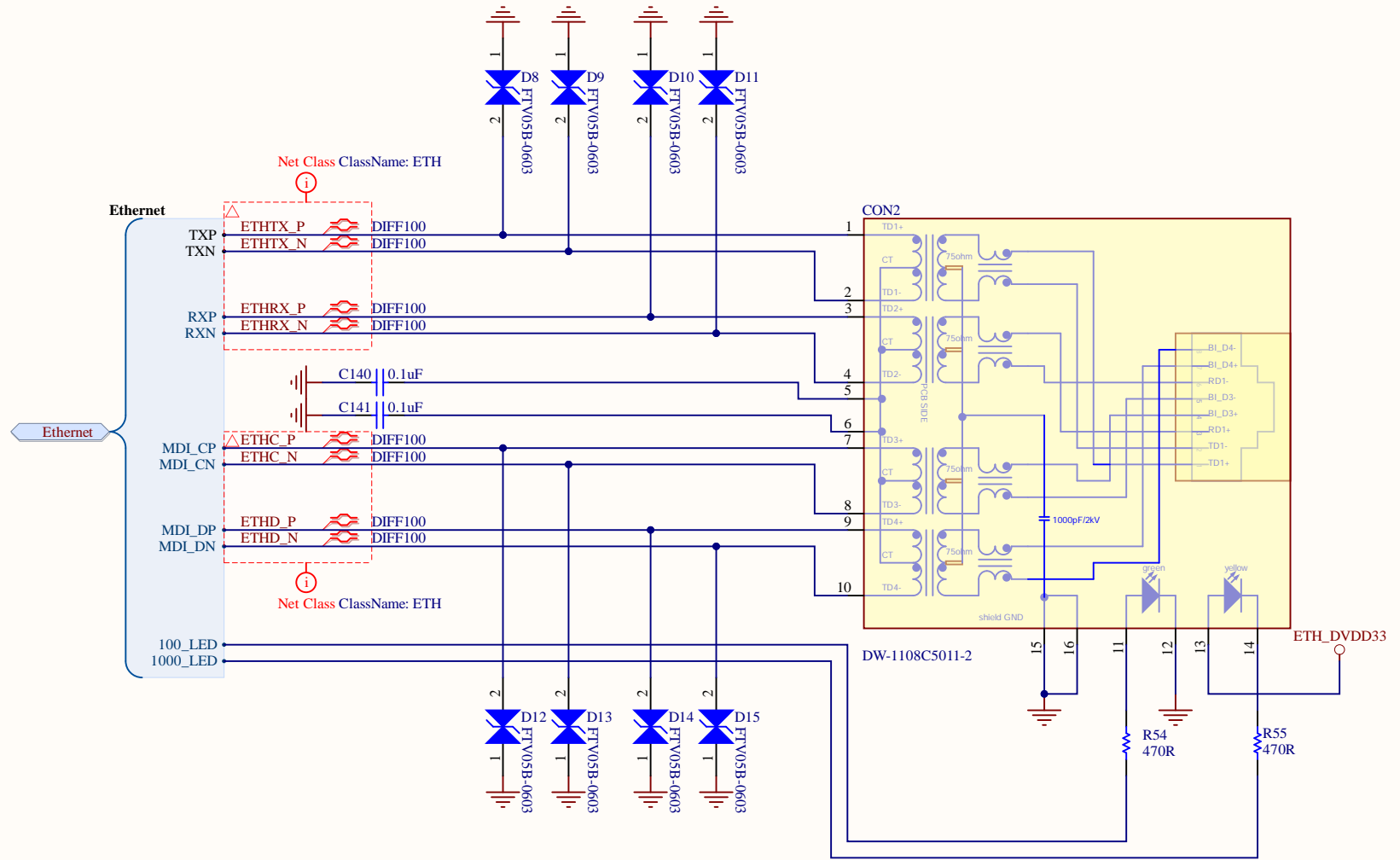



Title <b>DC JACK</b>			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea	<b>ODROID</b>
Size: A4	Number: 23	Revision: 0.1		
Date: 2020-10-06	Time: 오전 11:42:15	Sheet 23 of 31	Designed by: ruppi.kim@hardkernel.com	
File: CON_DCJACK.SchDoc				

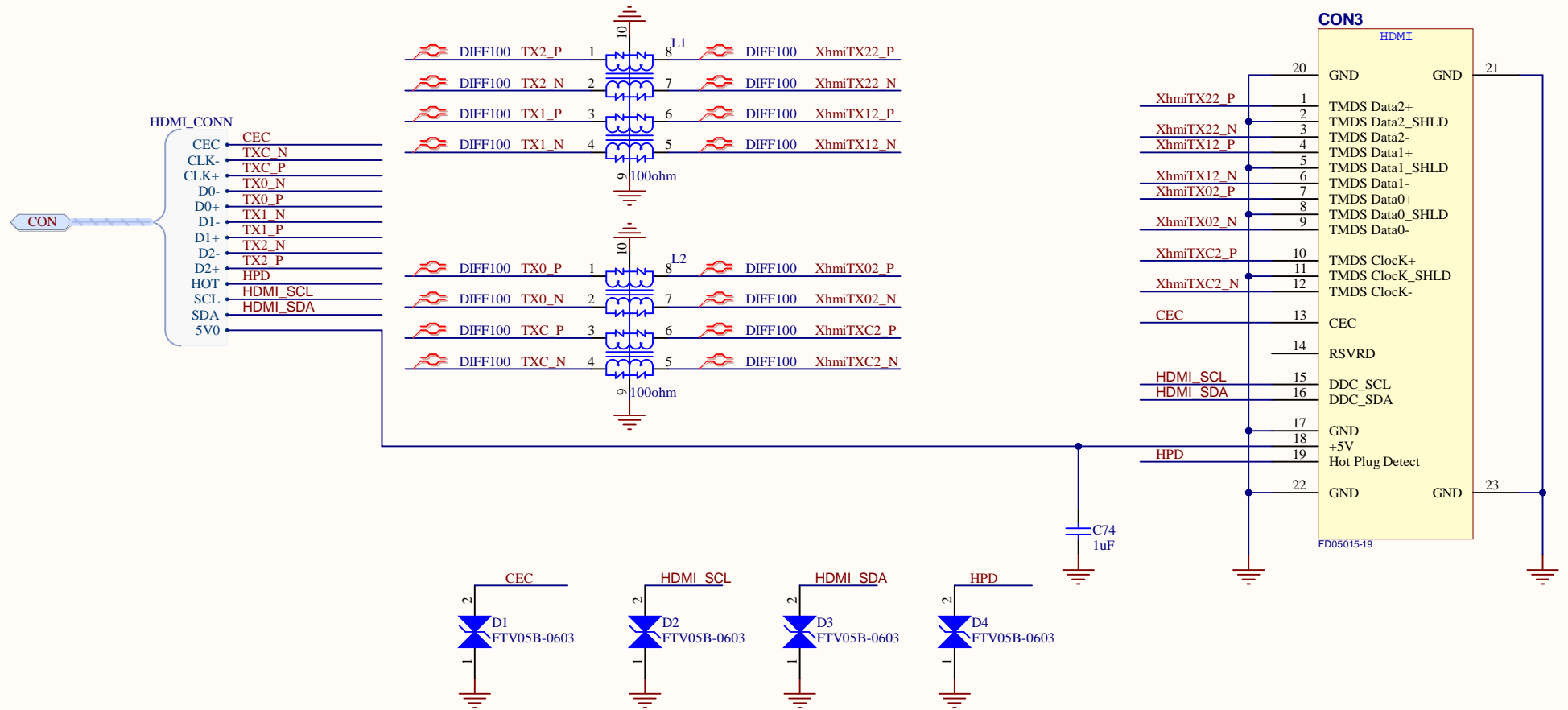


Title <b>CON FAN</b>			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea	
Size: A4	Number: 31	Revision: 0.1	Designed by: ruppi.kim@hardkernel.com	
Date: 2020-10-06	Time: 오전 11:42:15	Sheet 31 of 31		
File: CON_FAN.SchDoc				

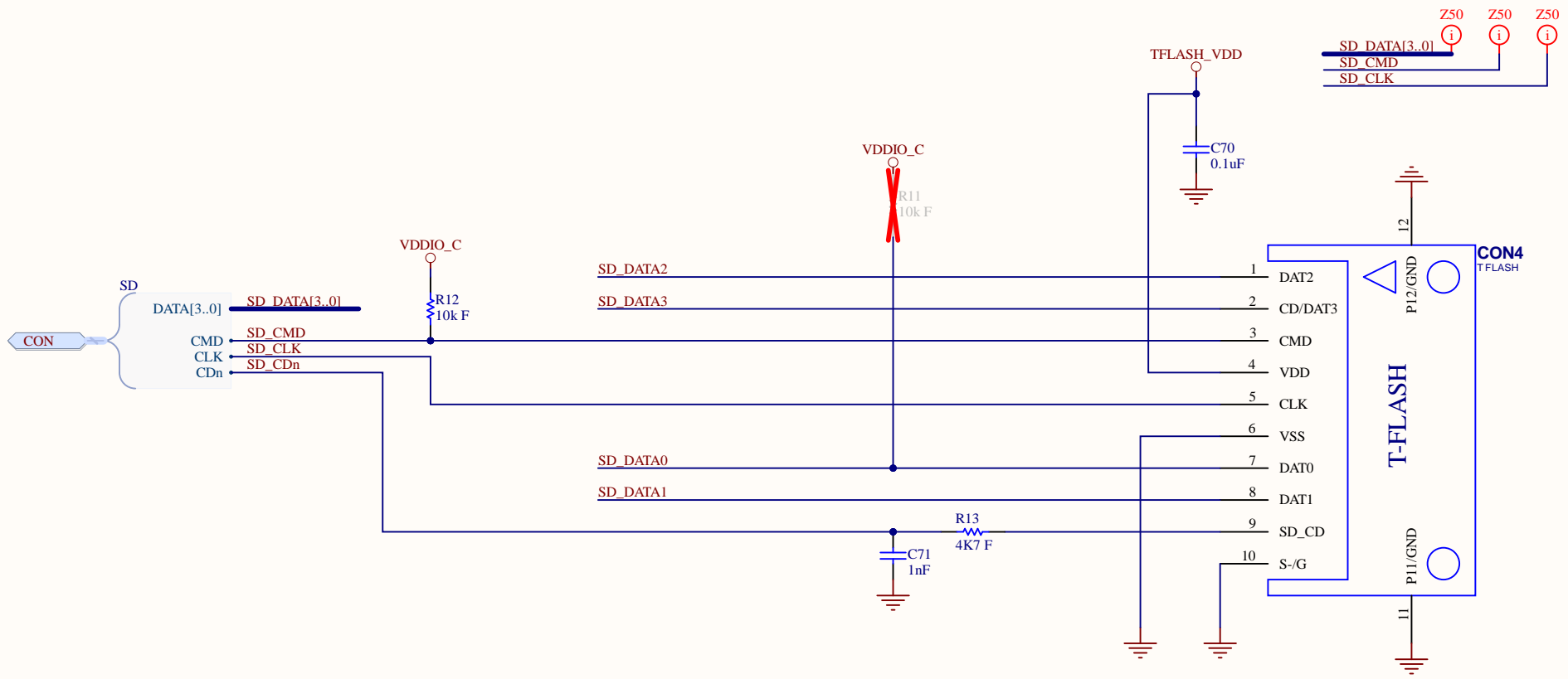




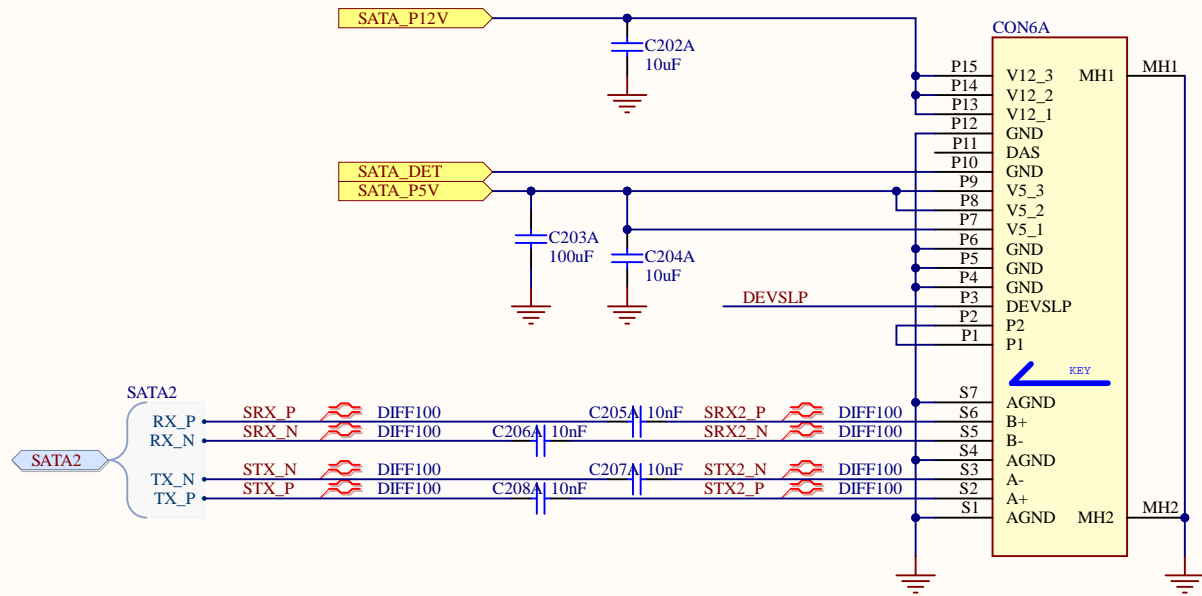
Title <b>Giga Ethernet Connector</b>			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea	
Size: A4	Number: 27	Revision: 0.1		
Date: 2020-10-06	Time: 2020.10.06 11:42:15	Sheet 27 of 31		
File: CON_GIGA_ETH.SchDoc				



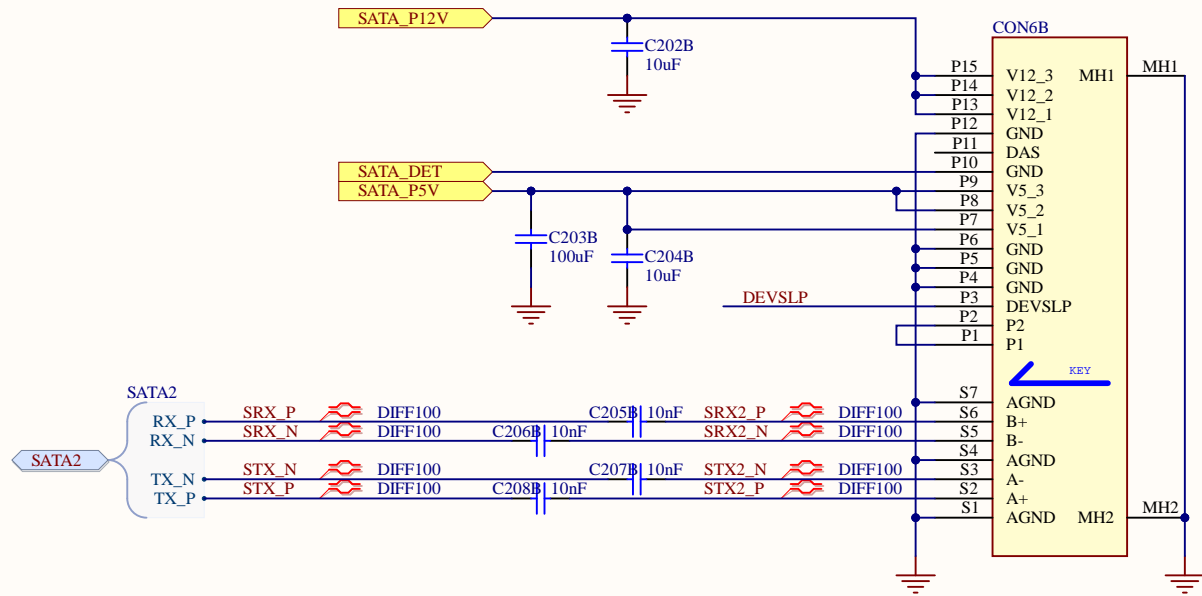
Title <b>HDMI Connector</b>			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea	
Size: A4	Number: 30	Revision: 0.1	<b>ODROID</b>	
Date: 2020-10-06	Time: 오전 11:42:15	Sheet 30 of 31		
File: CON_HDMI.SchDoc				
			Designed by: ruppi.kim@hardkernel.com	




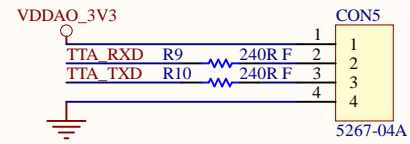
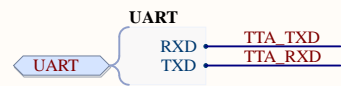
Title <b>MicroSD Socket</b>			Hardkernel Co.,LTD. 475-1 Mananro Manangu, Anyang City Gyeonggido South Korea	
Size: A4	Number: 26	Revision: 0.1	<b>ODROID</b>	
Date: 2020-10-06	Time: 오전 11:42:15	Sheet 26 of 31		
File: CON_MICROSD_HD08-AL00335.SchDoc				
			Designed by: ruppi.kim@hardkernel.com	



Title <b>SATA2 Connector</b>			Hardkernel Co.,LTD. 704 Anyang K-center 1591-9 Manangu, Anyang City Gyeonggido South Korea		<b>ODROID</b>
Size: A4	Number: 29	Revision: 0.1	Designed by: ruppi.kim@hardkernel.com		
Date: 2020-10-06	Time: 오전 11:42:15	Sheet 29 of 31			
File: CON_SATA2.SchDoc					



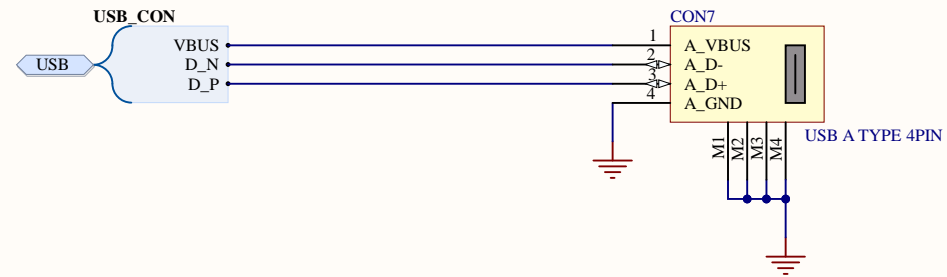
Title <b>SATA2 Connector</b>			Hardkernel Co.,LTD. 704 Anyang K-center 1591-9 Manangu, Anyang City Gyeonggido South Korea	
Size: A4	Number: 29	Revision: 0.1		
Date: 2020-10-06	Time: 오전 11:42:15	Sheet 29 of 31		
File: CON_SATA2.SchDoc				
			Designed by: ruppi.kim@hardkernel.com	



Title <b>UART Connector</b>			Hardkernel Co.,LTD. 475-1 Mananro	
Size: A4	Number: 24	Revision: 0.1	Manangu, Anyang City	
Date: 2020-10-06	Time: 오전 11:42:15	Sheet 24 of 31	Gyeongido	
File: CON_UART.SchDoc			South Korea	
			Designed by: ruppi.kim@hardkernel.com	







Title <b>USB 2.0 Type A Connector</b>			Hardkernel Co.,LTD. 475-1 Mananro	
Size: A4	Number: 28	Revision: 0.1	Manangu, Anyang City	
Date: 2020-10-06	Time: 오전 11:42:15	Sheet 28 of 31	Gyeongido	
File: CON_USB_RA.SchDoc			South Korea	
			Designed by: ruppi.kim@hardkernel.com	

