#### PDF **Content Indexing** Number of pages 01.Index 02.Change List ----3 03.Block Diagram 04.Power tree-DiscretePower-option ----4 05.Power tree-RK805-1 ----5 06.System Power-DiscretePower-option ----6 07.System Power-RK805-1 ----7 08.RK322X Power ----8 09.RK322X OSC/PLL Power/eFUSE 10.RK322X DDR Controler ----10 ----11 11.RK322X FLASH/eMMC Controler ----12 **12.RK322X USB PHY** ----13 13.RK322X SDMMC/I2C/I2S/GPIO ----14 14.RK322X HDMI PHY 15.RK322X AV Interface ----15 16.RK322X Ethernet MAC/EmbedPHY/TS -----16 ----17 17.RAM DDR3 2x16bit 18.RAM DDR3 4x16bit-option ----18 ----19 19.RAM DDR3 4x8bit-option 21.TF/SD Card ----20 ----21 22.Flash Power Manage ----22 23.Flash-eMMC-Default ----23 24.Flash-Nand Flash-option ----24 25.USB Port ----25 26.HDMI OUT Port ----26 27.WIFI+BT ----27 28.S/PDIF Port ----28 29.AV OUT Port 30.10/100M-Embed PHY ----29 ----30 32.10/100/1000M(Ext PHY)-option ----31 35.Debug UART2 ----32 36.WIFI-RTL8188FTV-option 37.WIFI-RTL8189FTV-option ----33

# RK3228A/RK3228B/RK3229

## **Bill of Materials**

## **Header:**

Item\tPart\tDescription\tPCB Footprint\tReference\tQuantity\tOption

# **Combined property string:**

{| ltem \t{Value}\t{Description}\t{PCB Footprint}\t{Reference}\t{Quantity}\t{Option}

#### Note:

**Component parameter description** 

- 1. DNP stands for component not mounted temporarily
- 2. If Value or option is DNP, which means the area is reserved without being mounted
- 3. If Flash is compatible, please notice

when eMMC is used, the option is that @eMMC is mounted, @Nand is not mounted when Nand is used, the option is that @Nand is mounted, @eMMC is not mounted

Rockchip Fuzhou Rockchip Electronics					
Project:	RK322X_BOX_Ref				
File:	Index				
Date:	Thursday, August 17, 2	2017	Rev:	V1.2	
Designed by:	Zhangdz		Sheet:	1 of 33	

V	ersion	Date	Author	Change Note	Approved
V	1.0	20160708	ZDZ	First edictor	
V	1.1	20160801	ZDZ	1: U1400的输入电源网络名有误,原为悬空,现更新为VCC5V_HDMI	
V	1.2	20170112	ZDZ	1: RK805-1 BUCK的电感感量由0.47uH更新为1uH	
				Rockchip <sub>瑞芯微电子</sub>	Fuzhou Rockchip Electronics
				Project: RK322X_BO	X_Ref

File:

Designed by:

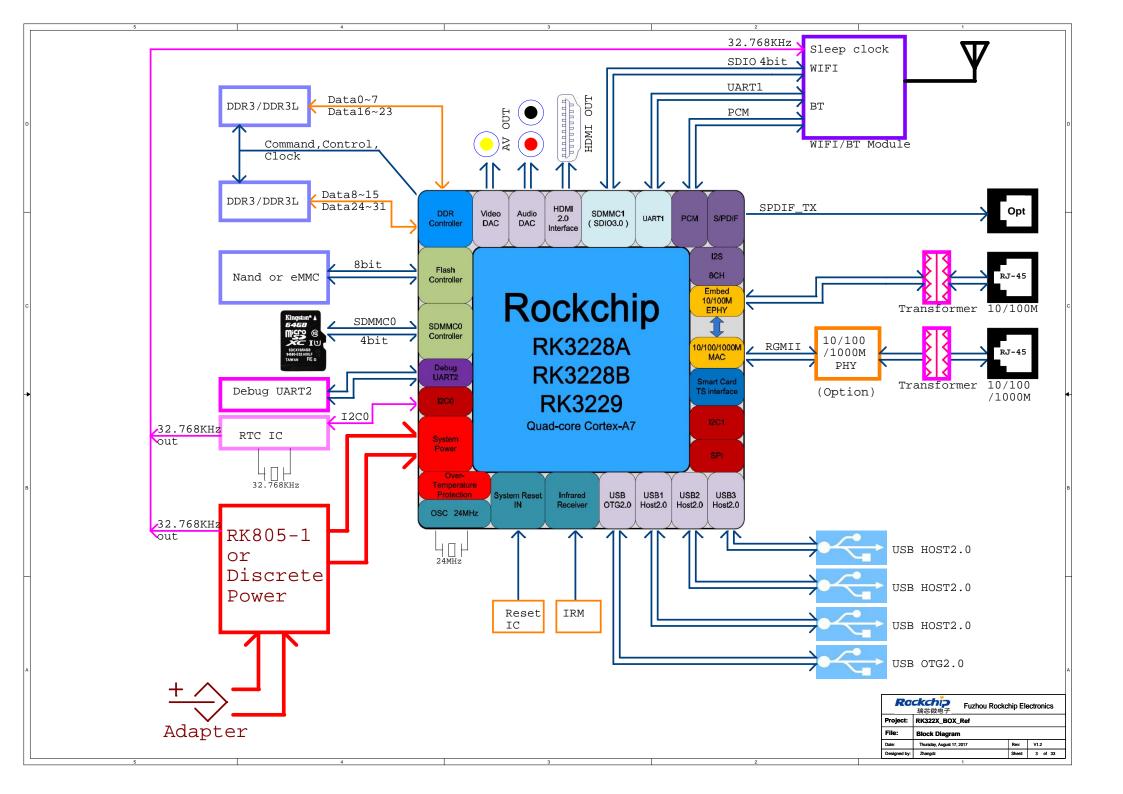
Change List
Thursday, August 17, 2017

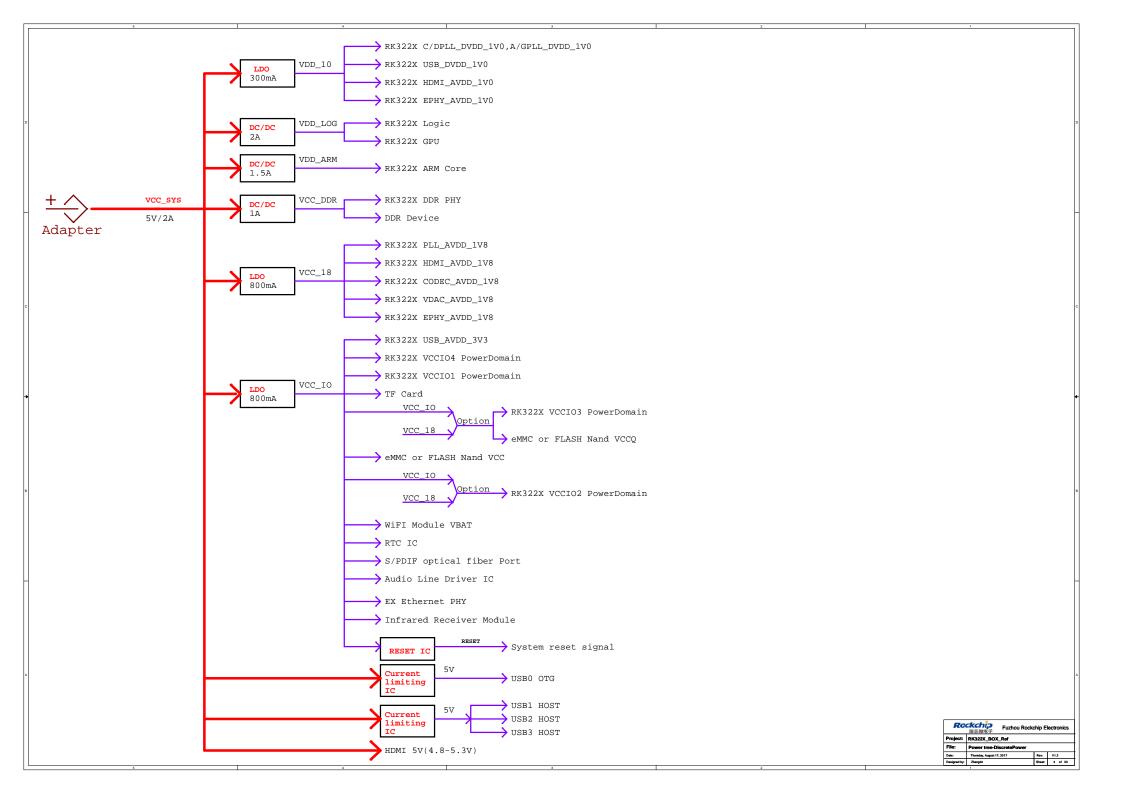
Zhangdz

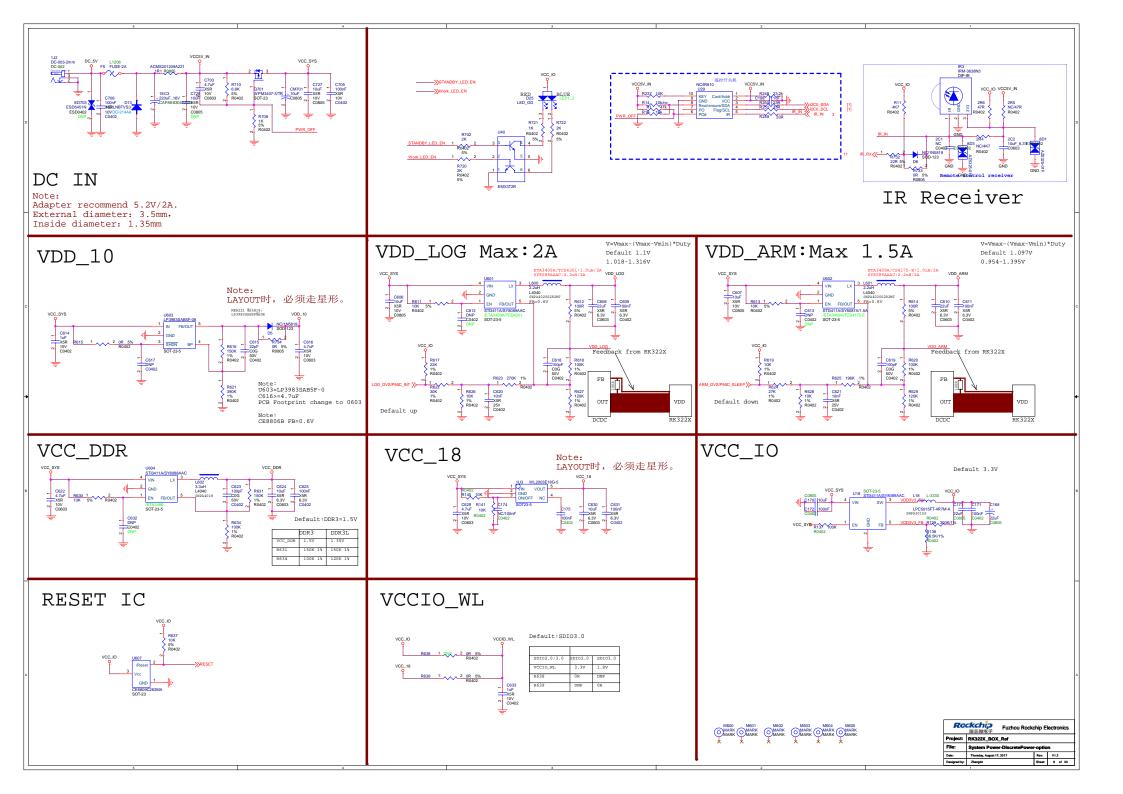
Rev:

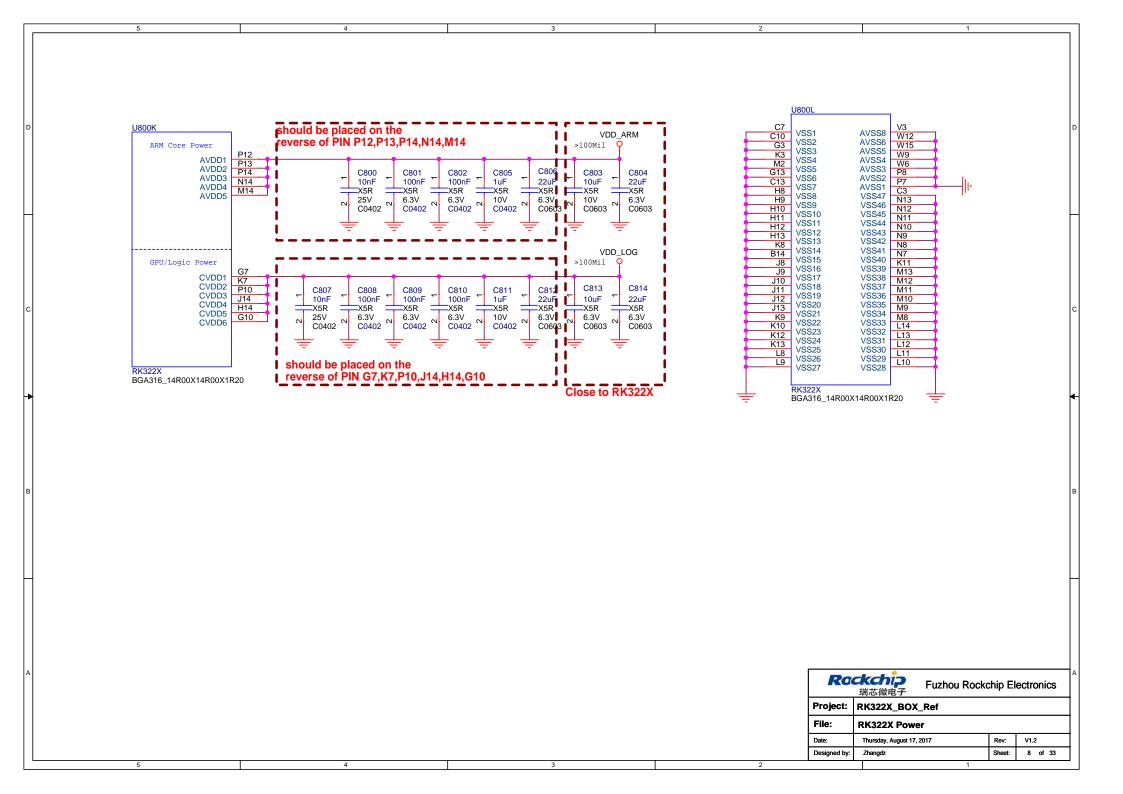
V1.2

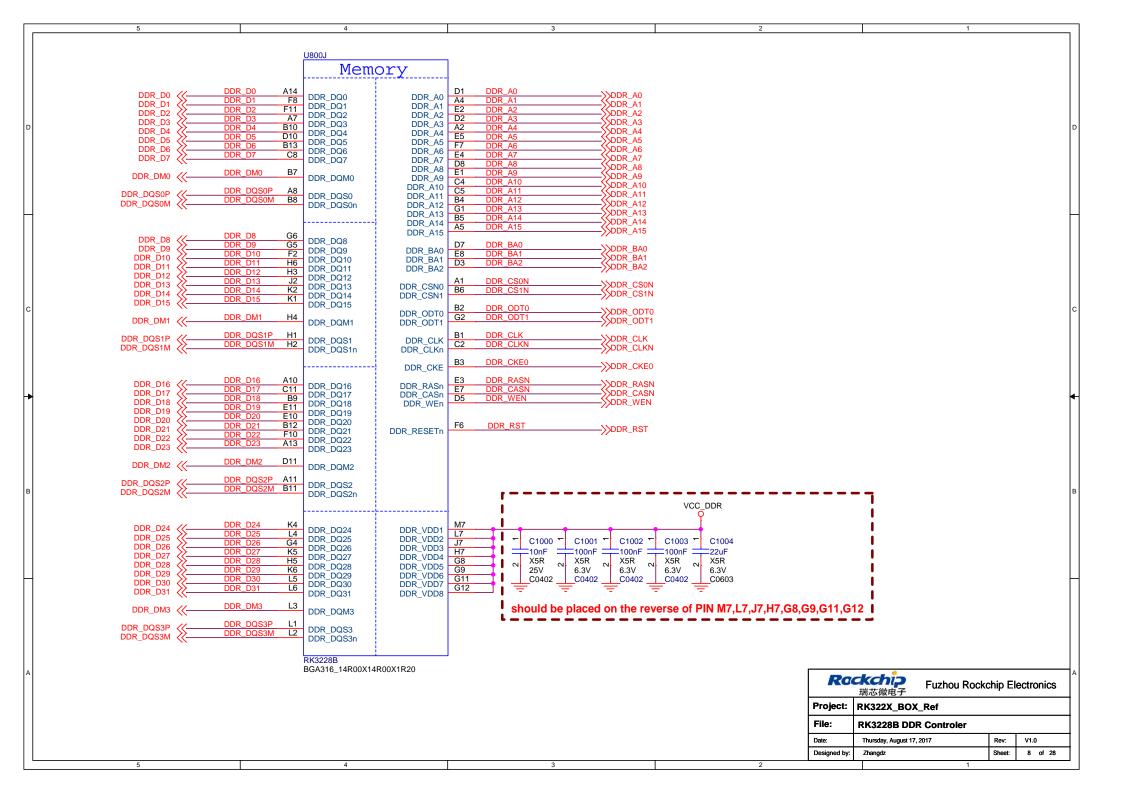
Sheet: 2 of 33

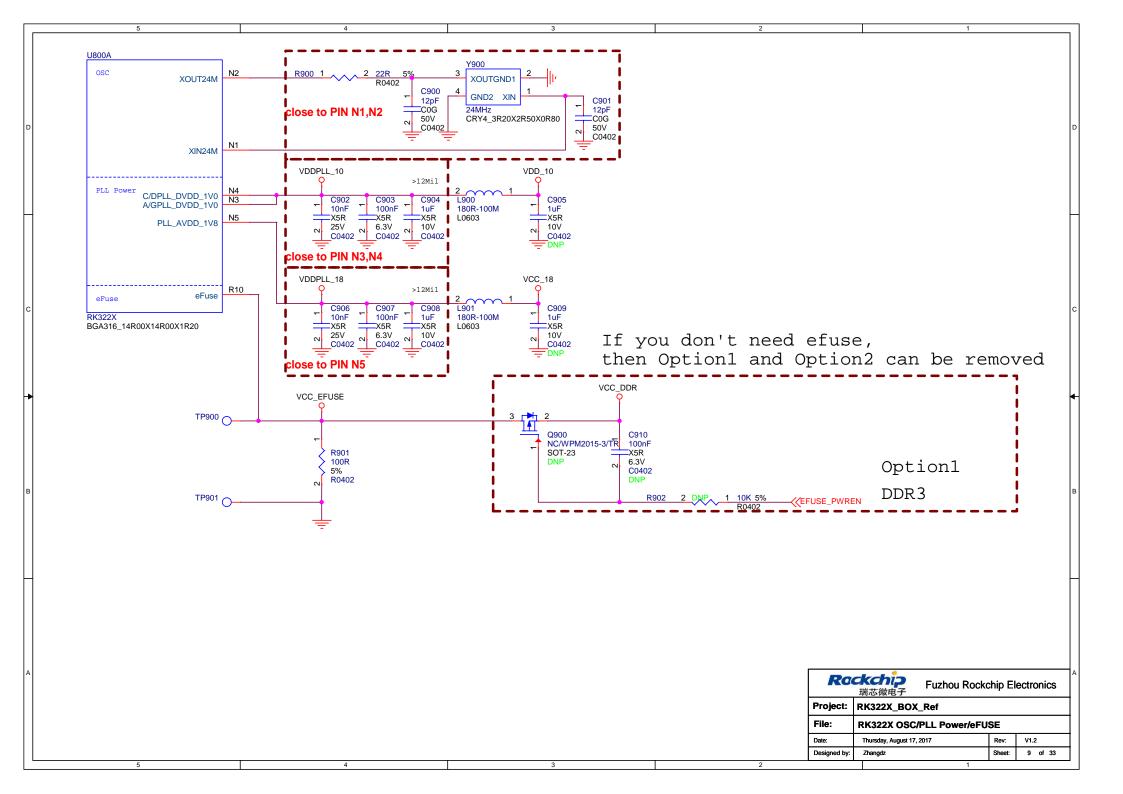


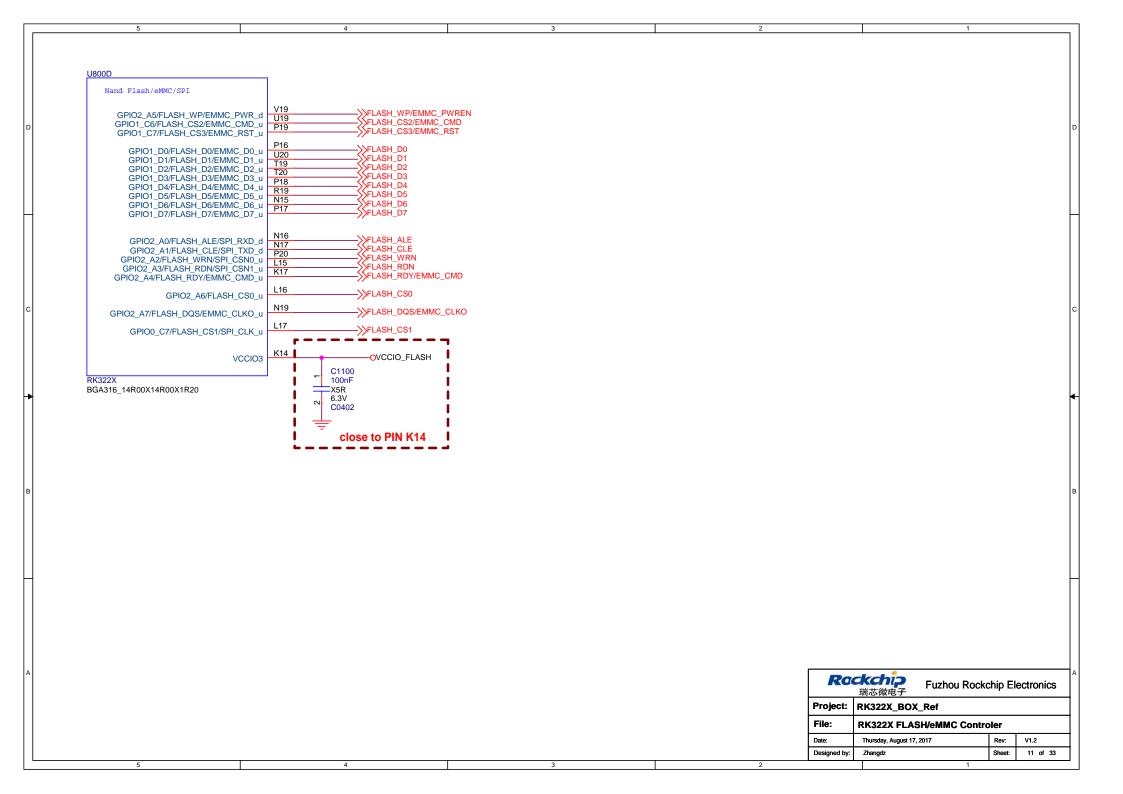


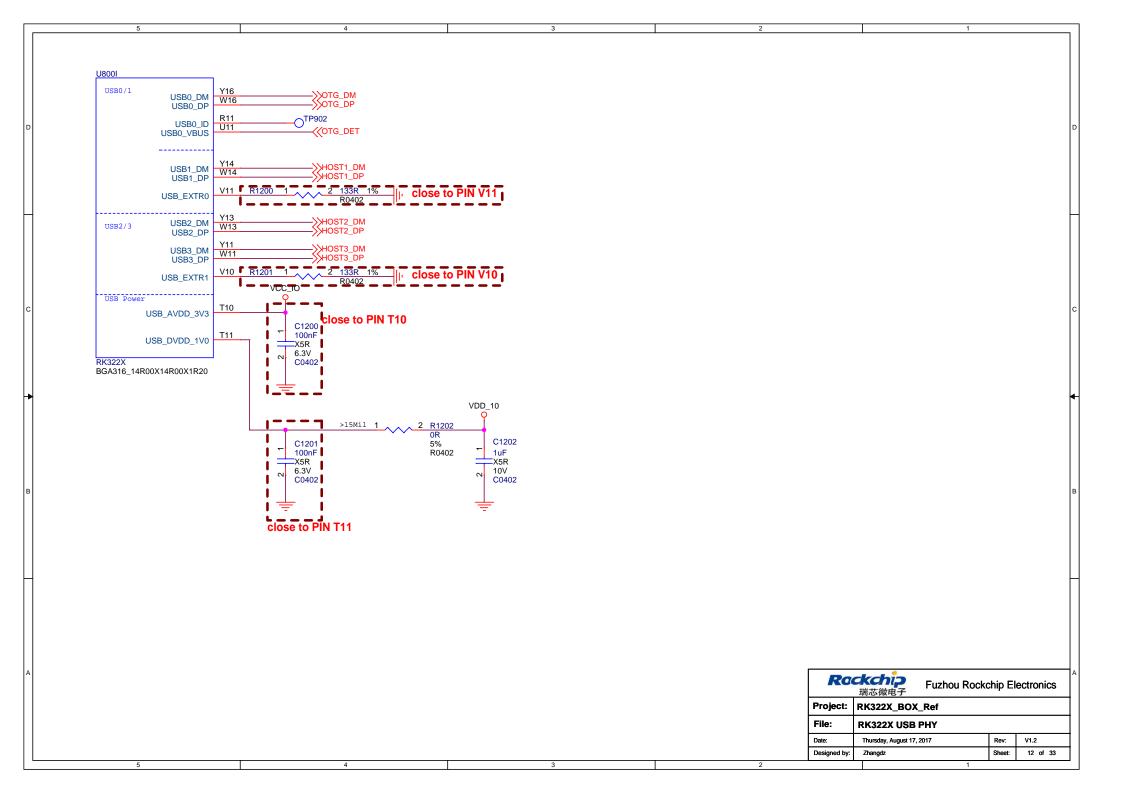


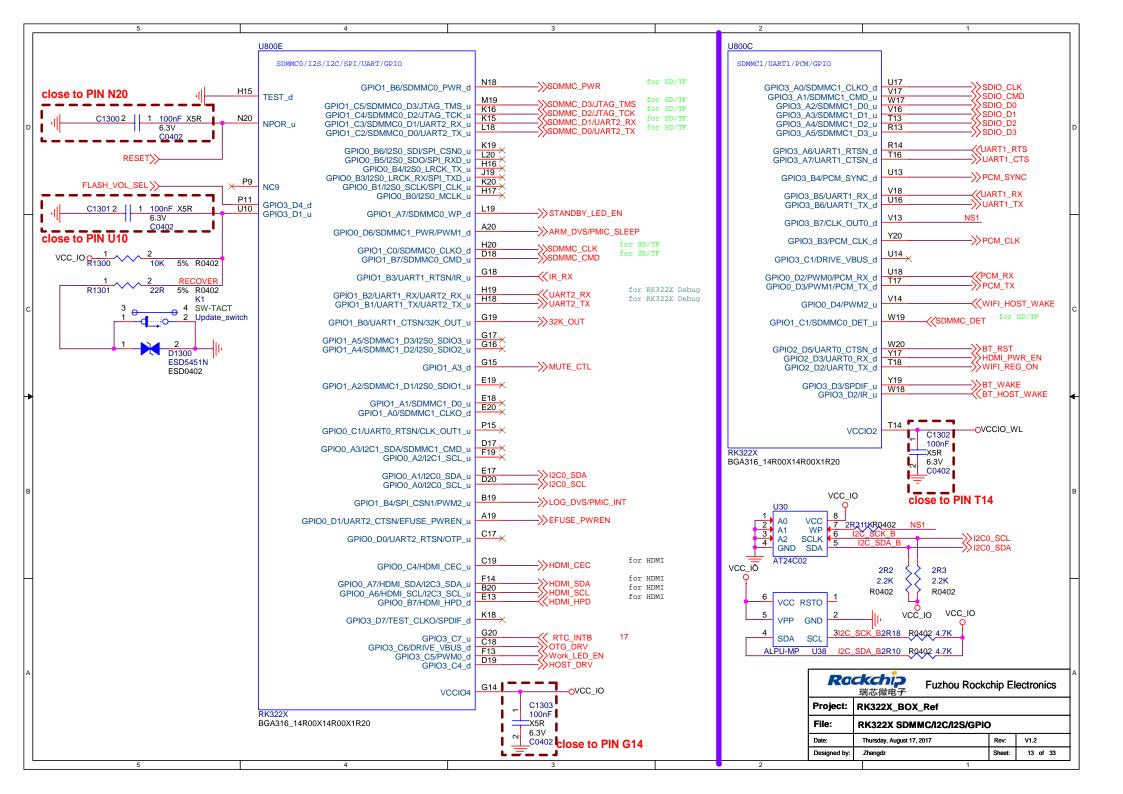


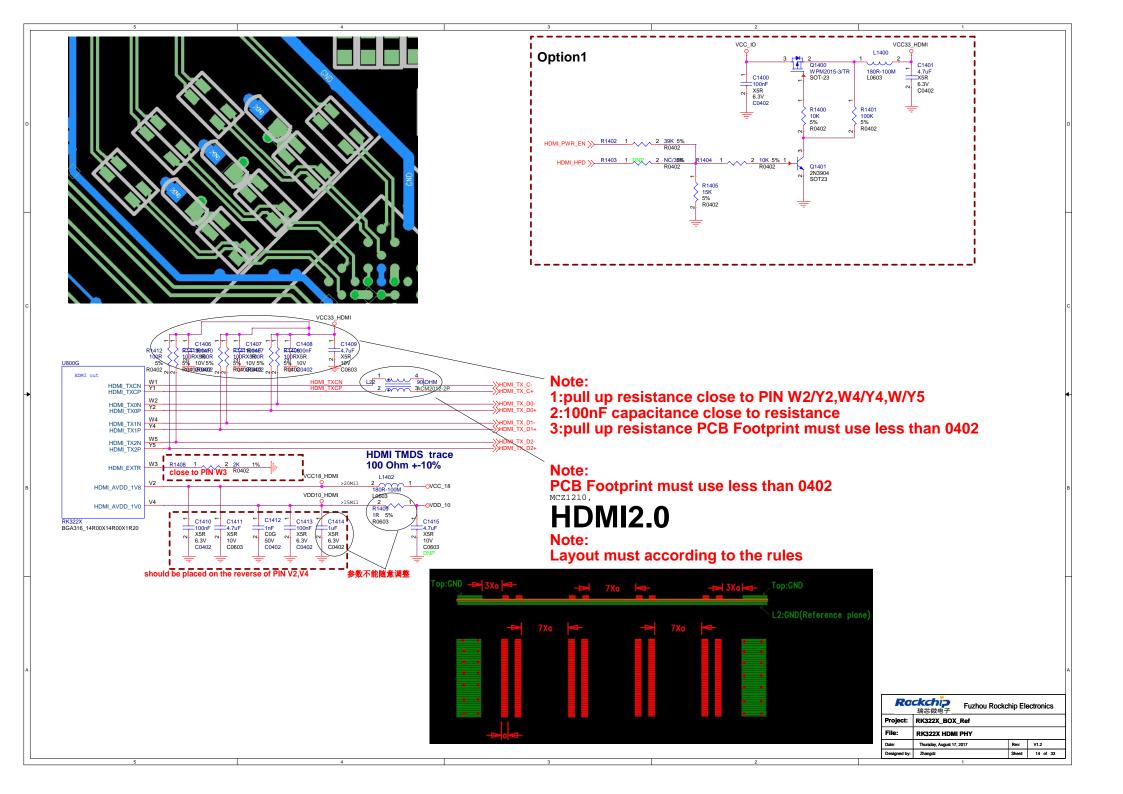


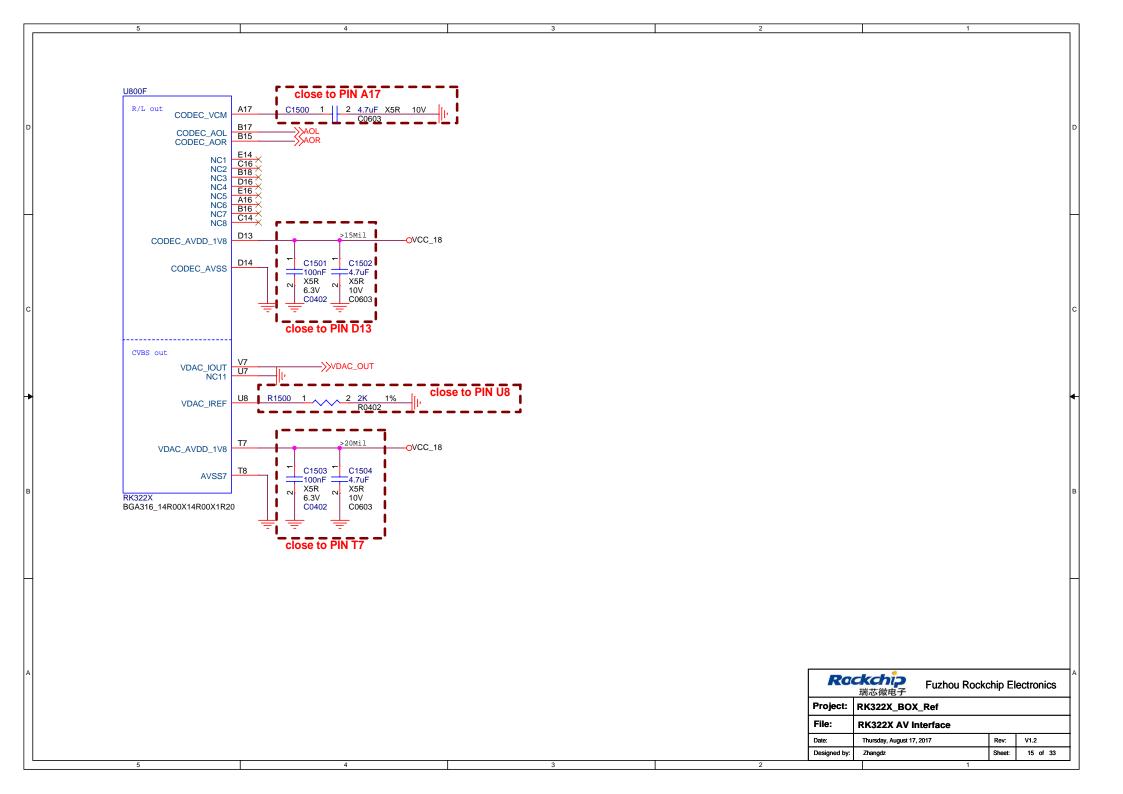


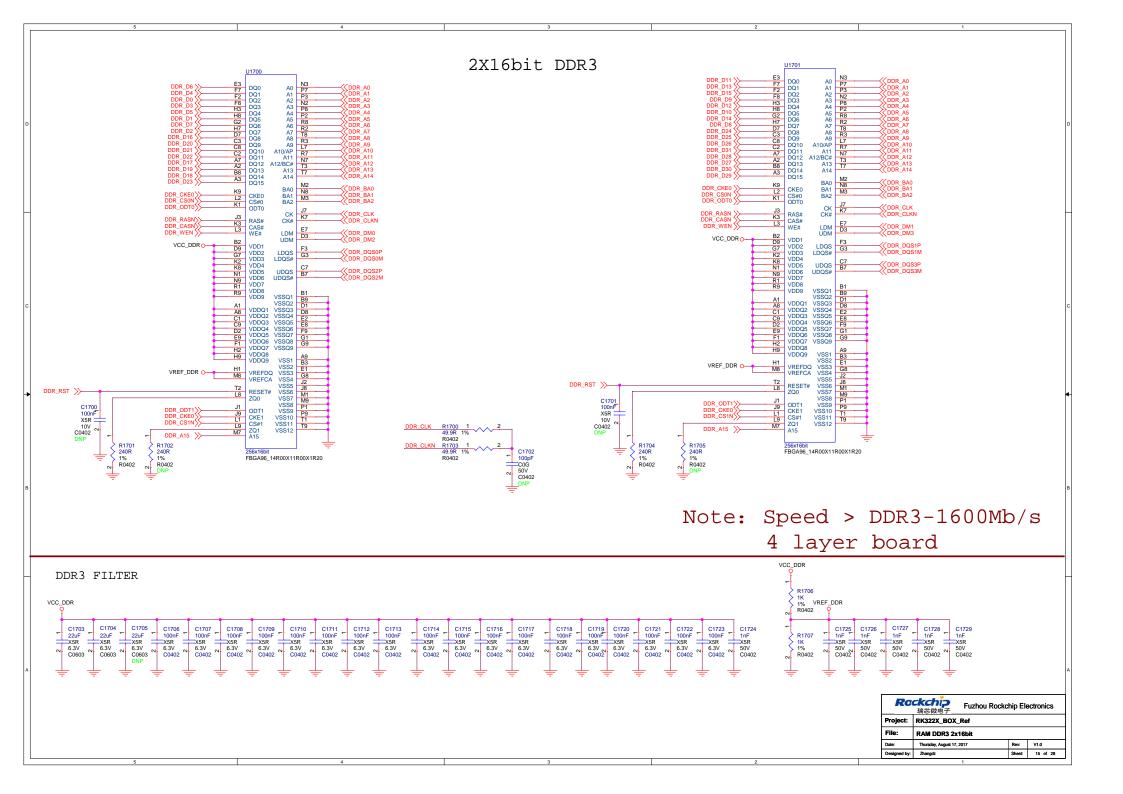


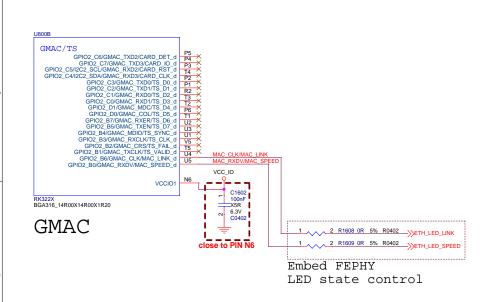


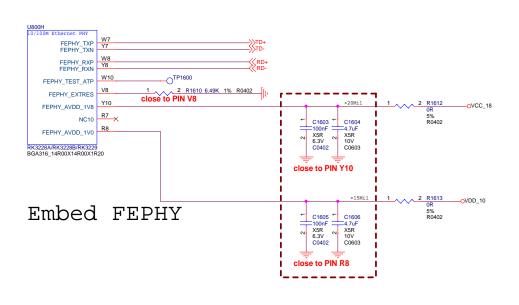






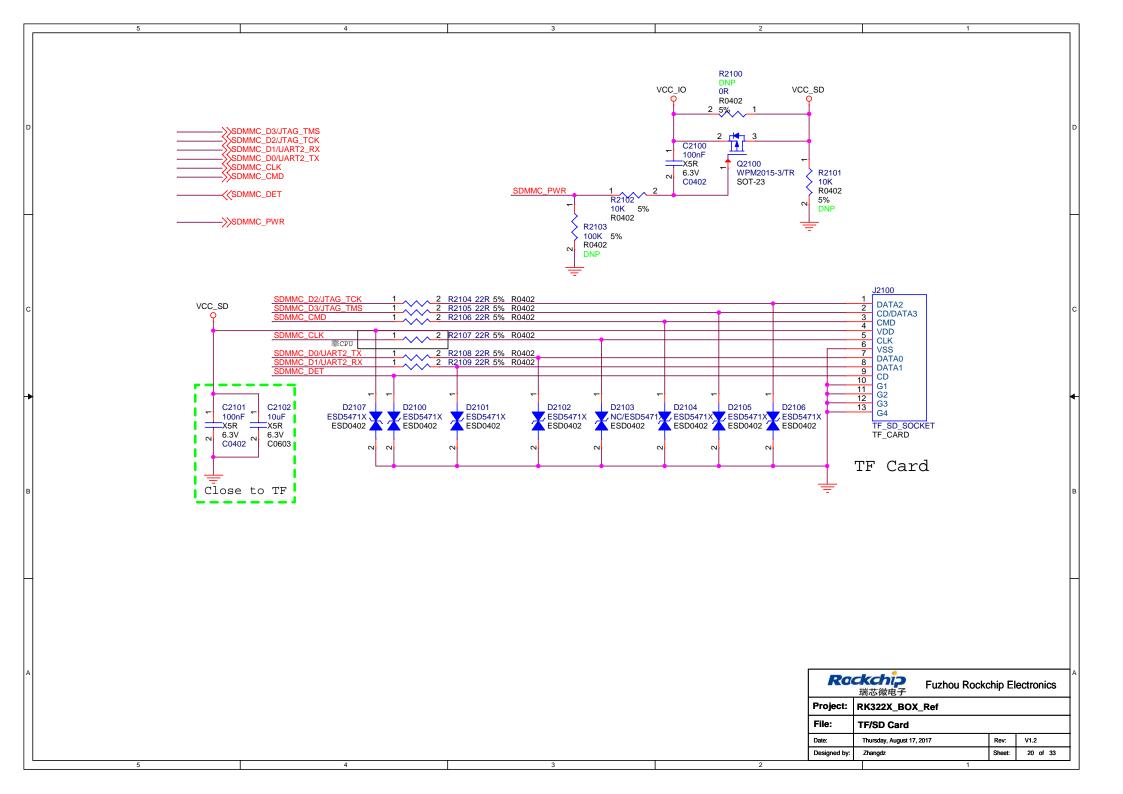


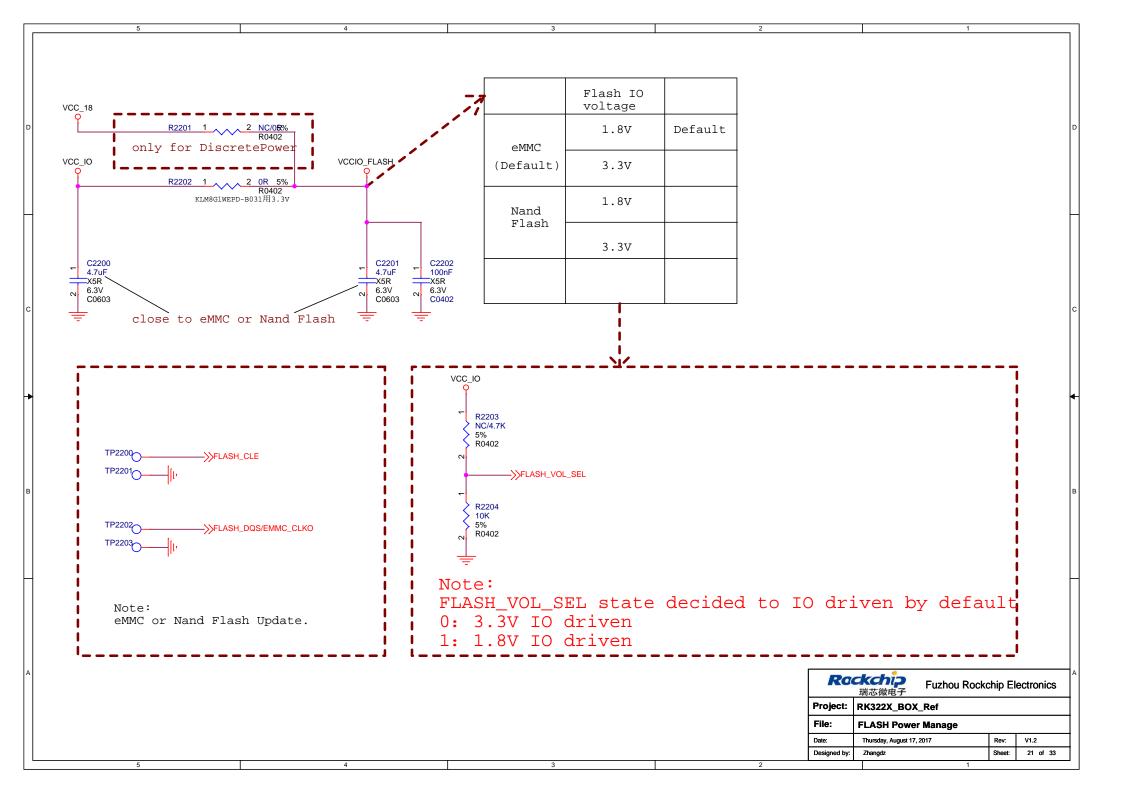


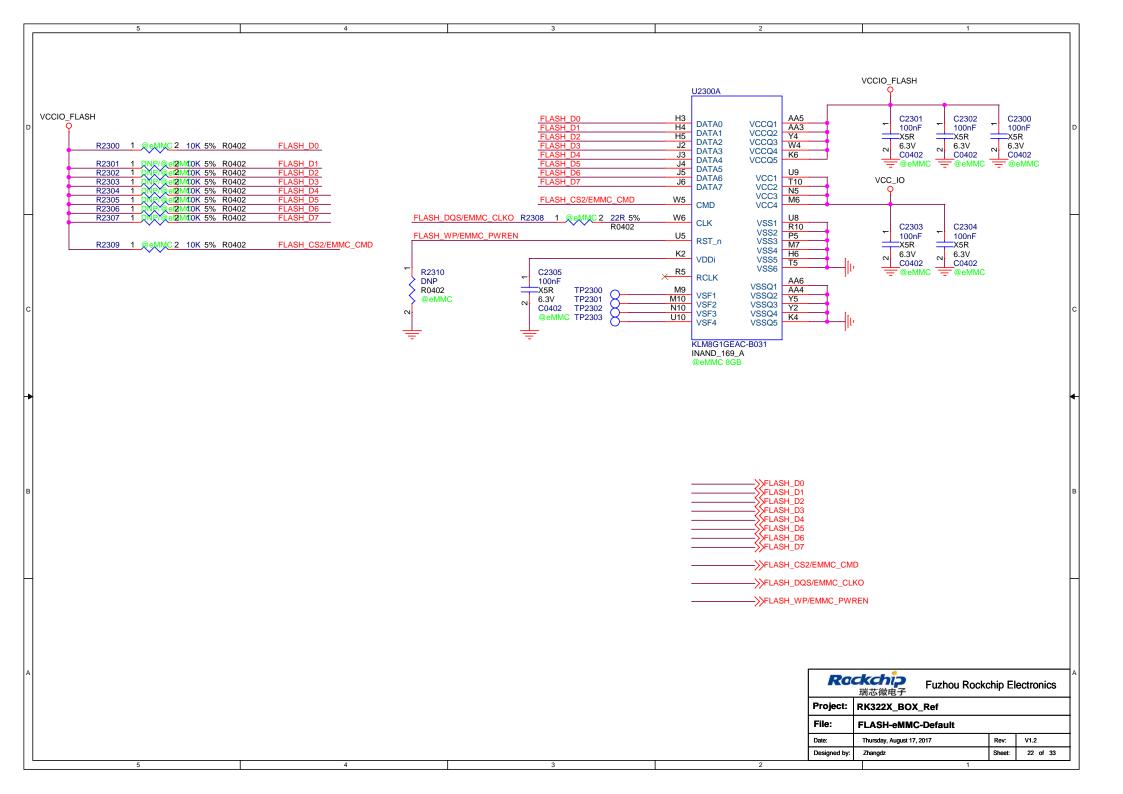


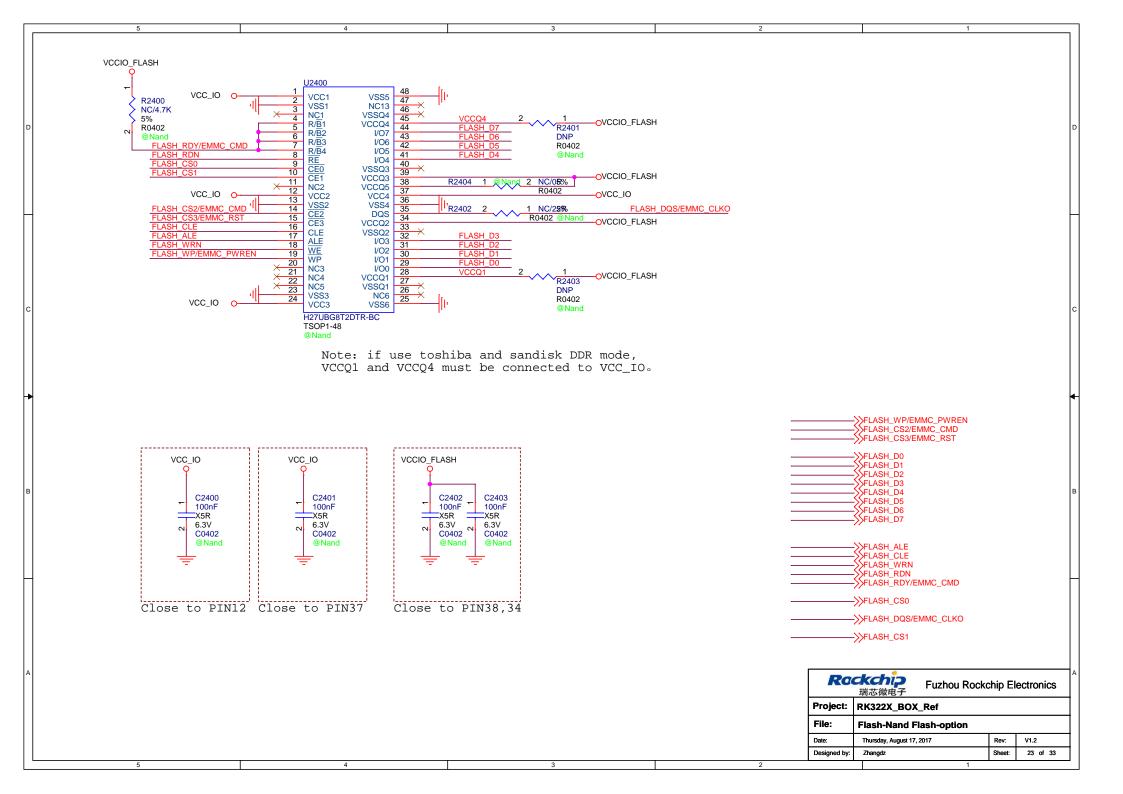
10/100M/1000M RGMII Interface
MAC TXD0 PHY TXD0
MAC_TXD1 PHY_TXD1
MAC_TXD2 PHY_TXD2
MAC_TXD3 PHY_TXD3
MAC_TXEN PHY_TXEN
MAC TXCLK PHY TXCLK
1110_1110211
MAC_RXD0 < PHY_RXD0
MAC_RXD1 PHY_RXD1
MAC_RXD2 PHY_RXD2
MAC_RXD3 PHY_RXD3
MAC_RXDV PHY_RXDV
MAC_RXCLK PHY_RXCLK
MAC_CLK PHY_CLKOUT125
MAC_MDIO < PHY_MDIO
MAC_MDC PHY_MDC
PHY RST PHY RST
= = = = = = = = = = = = = = = = = = = =

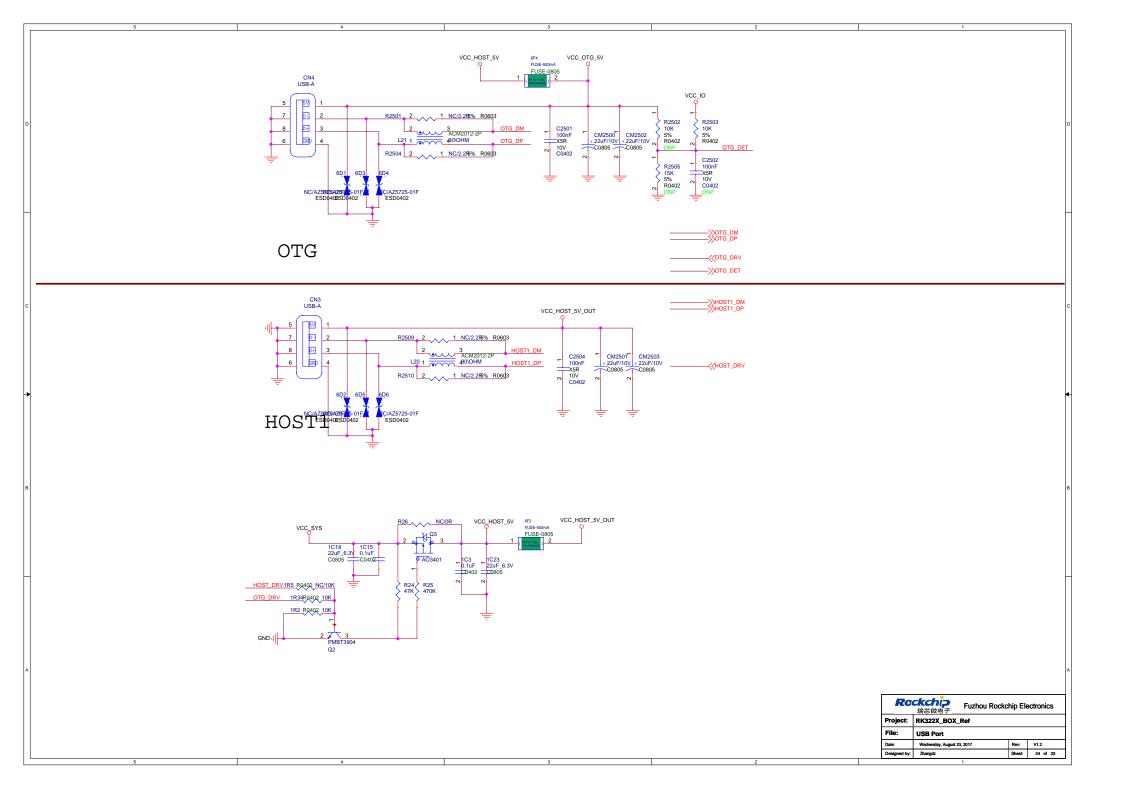
<b>Rockchip</b> 瑞芯微电子 Fuzhou Rockchip Electronics					
Project:	RK322X_BOX_Ref				
File:	RK322X Ethernet MAC/EmbedPHY/TS				
Date:	Thursday, August 17, 2017	Rev:	V1.2		
Designed by:	Zhangdz	Sheet:	16 of 33		

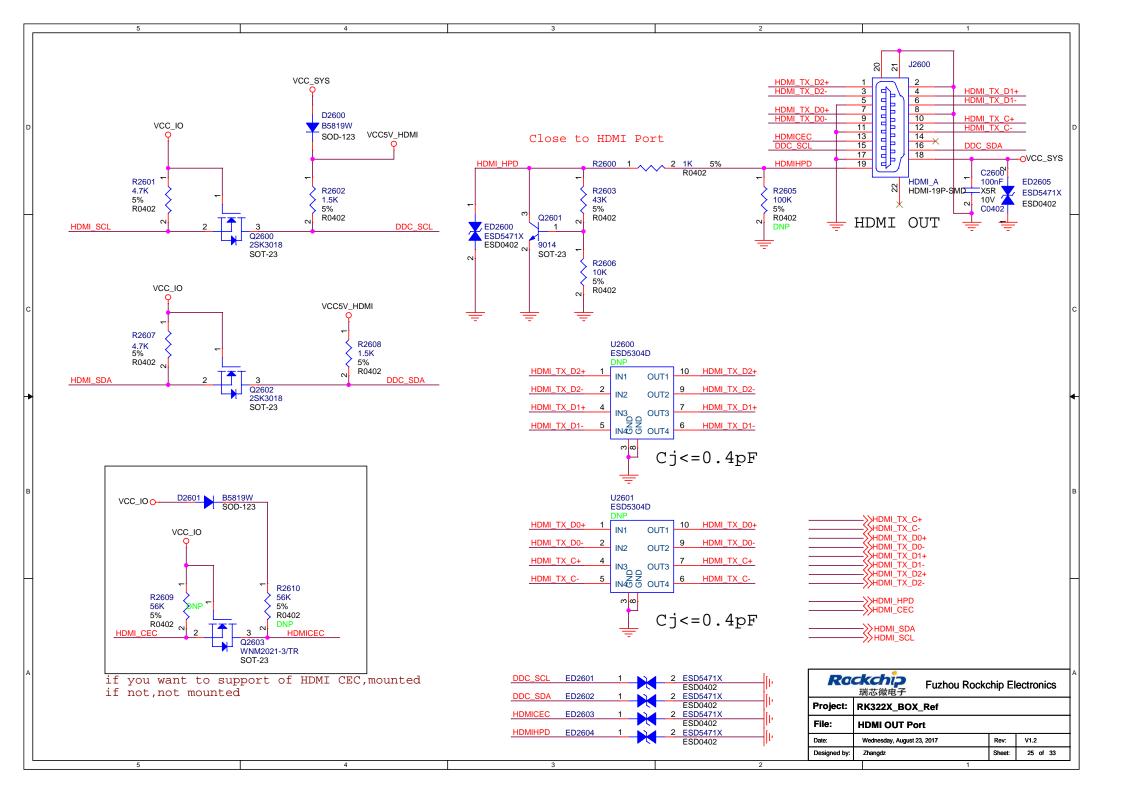


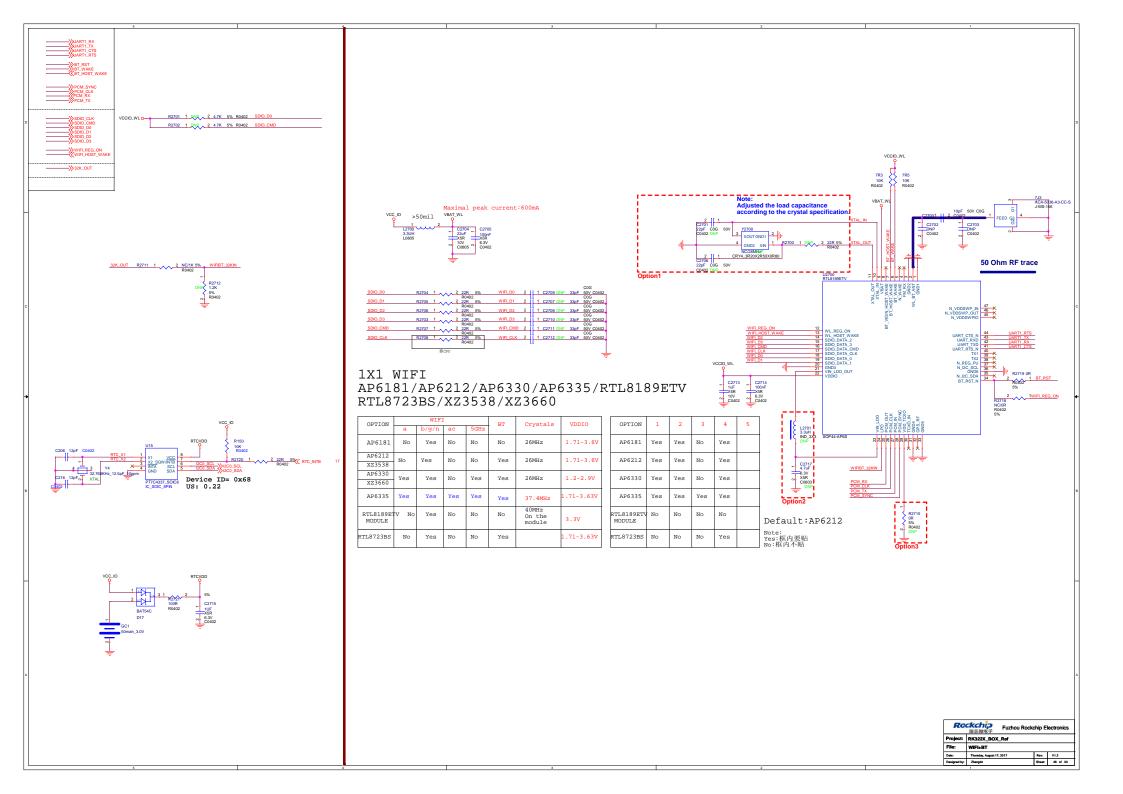


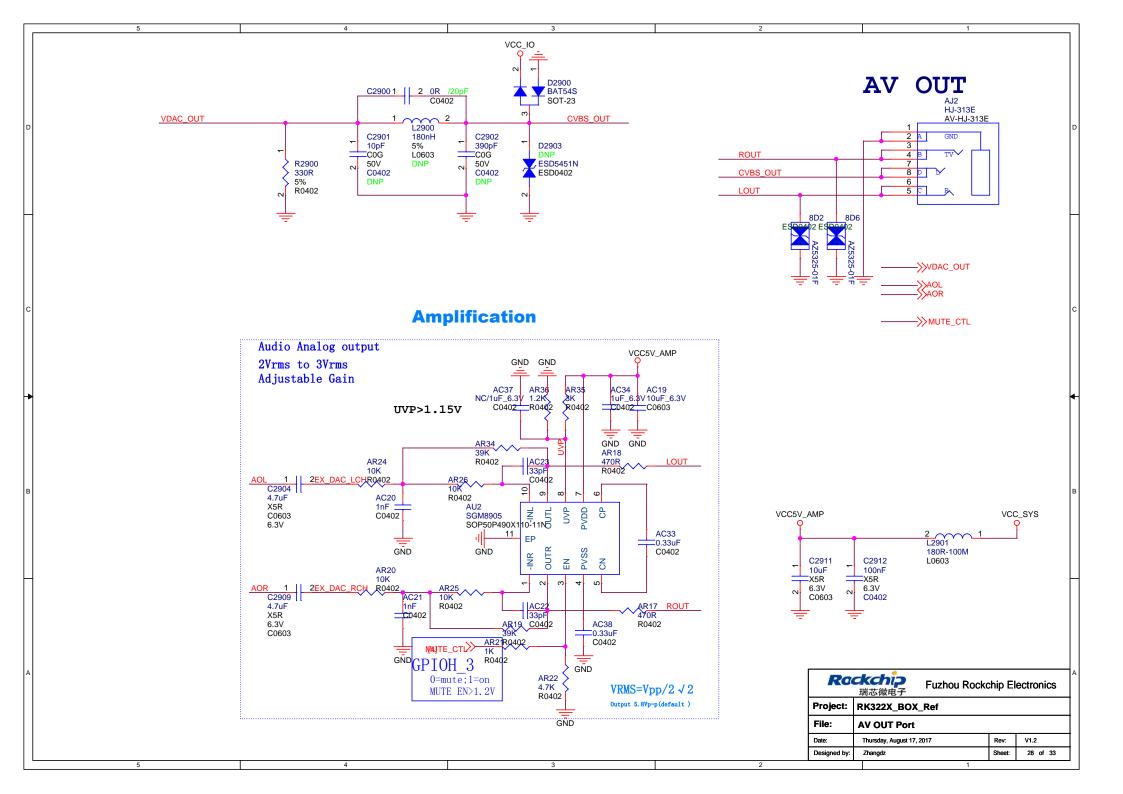


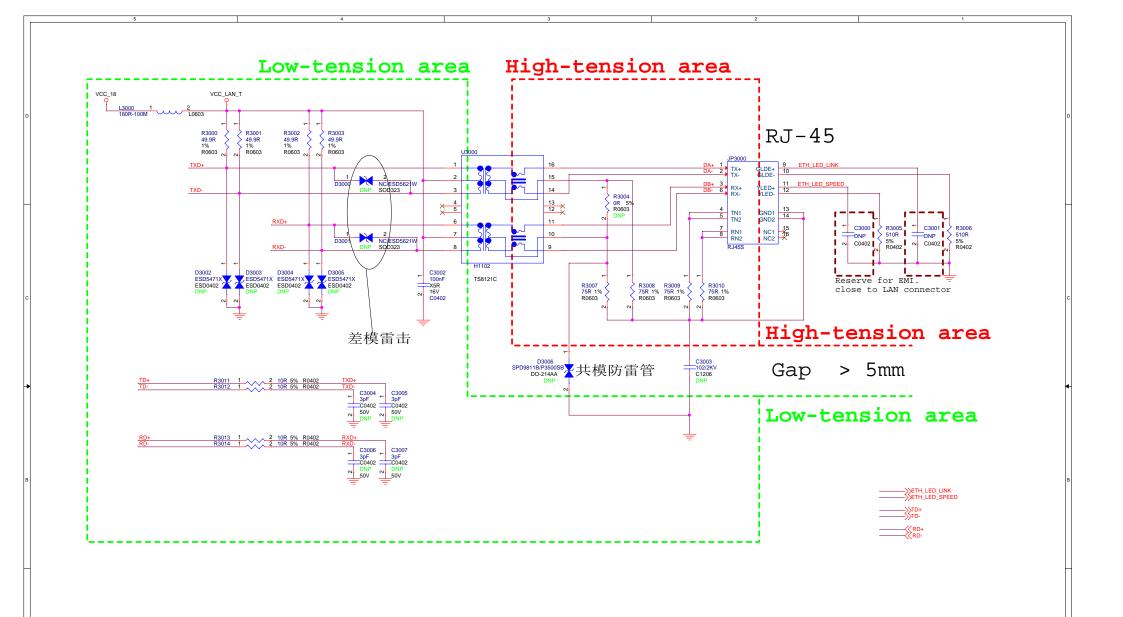












Ra	<b>ckchip</b> 瑞芯微电子	Fuzhou Rockchip Electronics		
Project:	RK322X_BOX	_Ref		
File:	RJ45 Port-10/	100M(Embed PH)	n	
Date:	Thursday, August 17,	2017	Rev:	V1.2
Designed by:	Zhangdz		Sheet:	29 of 33

