EVB Schematic For RK3399Pro

RK3399Pro_EVB_V1.0

PMIC: RK809-3 (5BUCK + 9LDO + Codec)

RAM: LPDDR3

ROM: eMMC + TF card

Interface: MIPI CSI/MIPI DSI/UART/I2S/RMII/LCDC/PCIE/USB2/TYPEC



Index

00.Cover Page 01.Index **02.Revision History** 03.Block Diagram 04.I2C MAP 05. Power diagram and Sequence 09.RK3399 Pro GND 10.RK3399 Pro Power 11.RK3399 Pro OSC/PMUIO1/PMUIO2 12.RK3399 Pro DDR 13.RK3399 Pro EMMC 14.RK3399 Pro USB2.0/TYPEC/PCIE 15.RK3399 Pro SARADC/GPIO 16.RK3399 Pro SDMMC0/SDMMC1 17.RK3399 Pro Display 19.RK3399 Pro RGMII/LCDC/CIF 20.POWER-DC IN 21.POWER PMIC RK809-3 22.POWER_CPU/GPU/NPU 25.USB2.0 Port 26.TYPEC Port 31.NPU RAM LPDDR3 1X32bit 36.RAM LPDDR3 2X16bit **41.EMMC** 42.SPI FLASH 46.CAMER-MIPI CSI 47.CAMERA-CIF 48.MIPI DSI 50.LCM-EDP PANNEL 61.WIFI/BT AP6354 65.RGMII-10/100/1000M 70.AUDIO1 75.AUDIO2-MIC Array Connector 77.TP COB-GSL1680 82.HDMI Port 90.SENSOR 91.TF CARD 92.KEY BOARD **94.PCIEX4** 96.EFUSE 97.DEBUG

Note

NOTE 1:

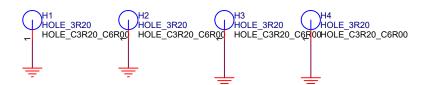
Component parameter description

- 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

NOTE 2:

Please use our recommended components to avoid too many changes.For more informations about the second source, please refer to our AVL.



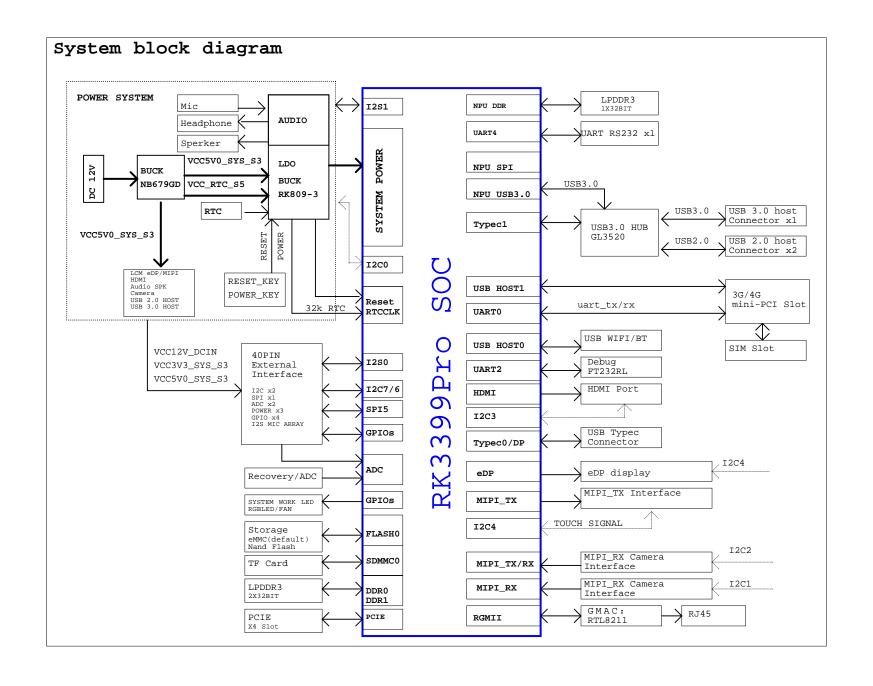


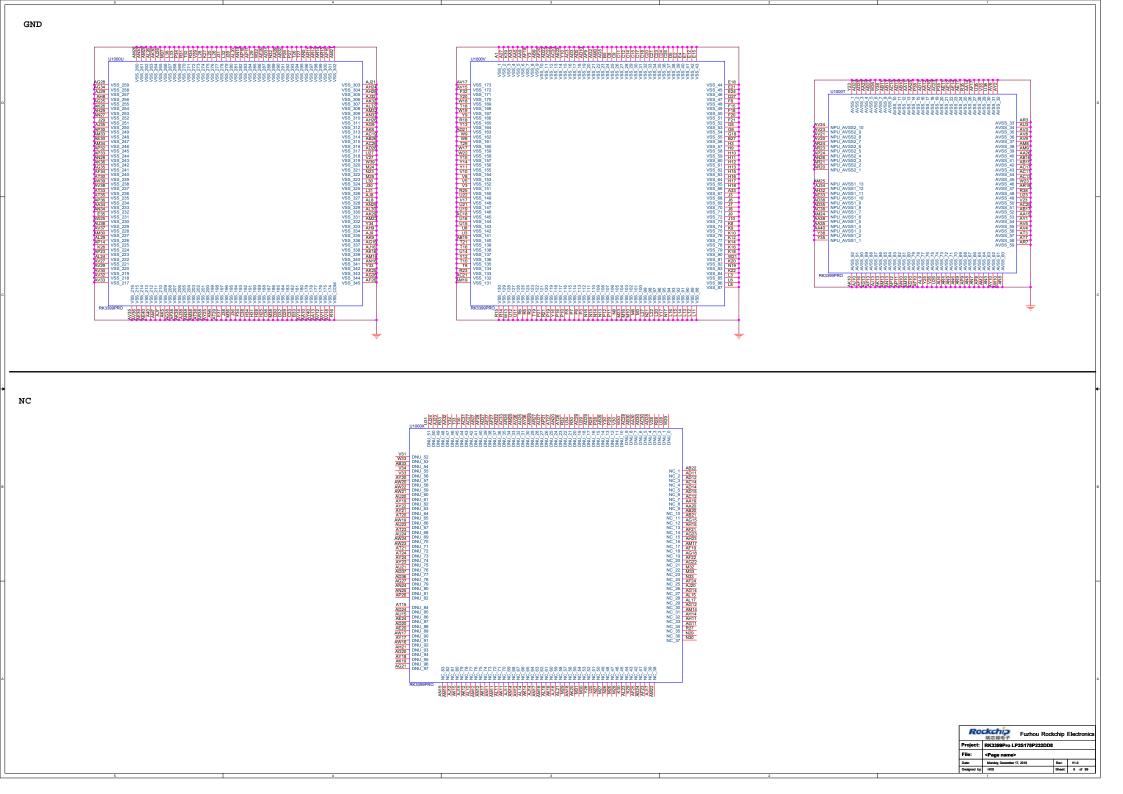
Rockchip				
Project:	RK3399Pro LP3S178P232DD8			
File:	<page name=""></page>			
Date:	Monday, December 1	7, 2018	Rev:	V1.0
Designed by:	HXS		Sheet:	1 of 99

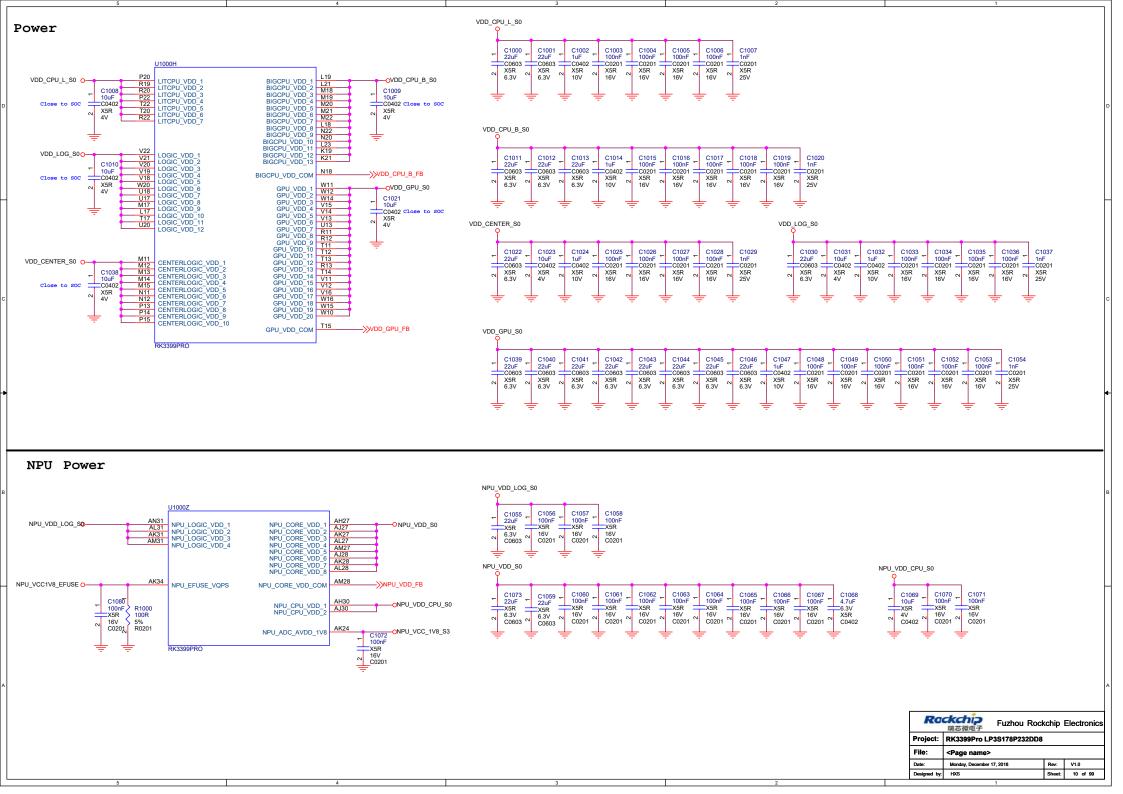
J001 F
Radiator_38x38

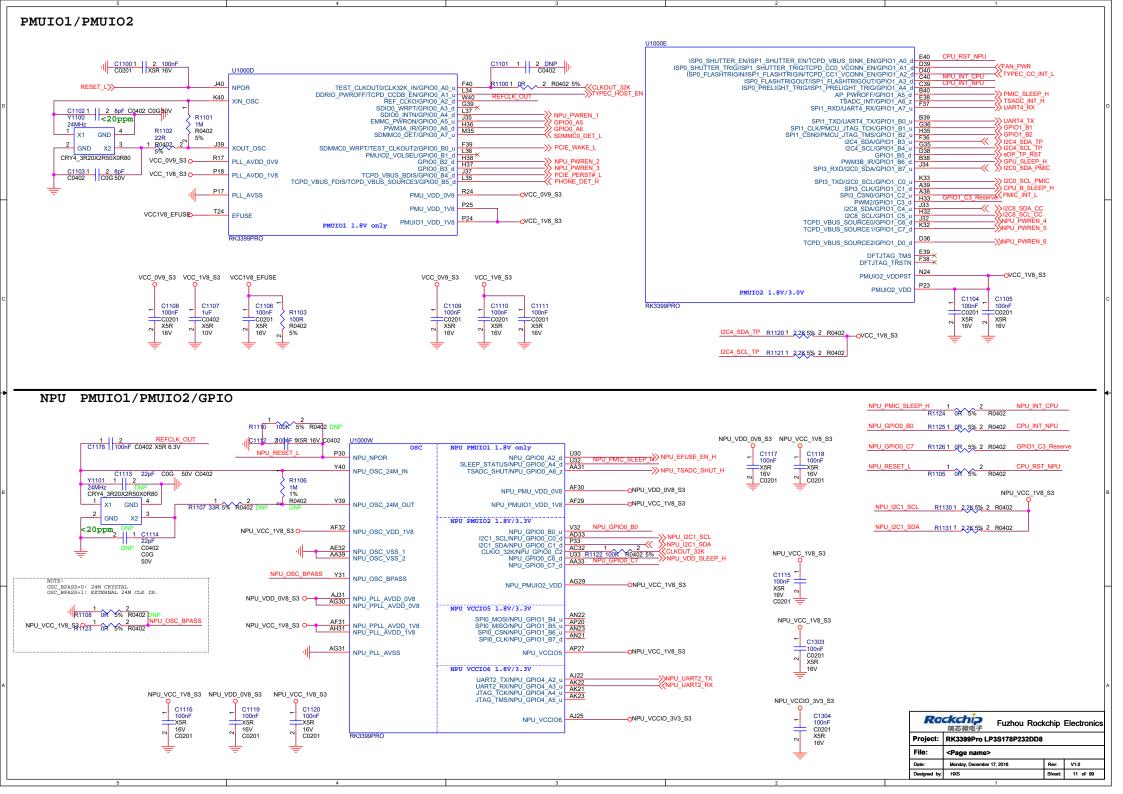
Version	Date	Author	Change List	Approved
V1.0	20181123		First edition for RK3399Pro	HXS
,ā	i			

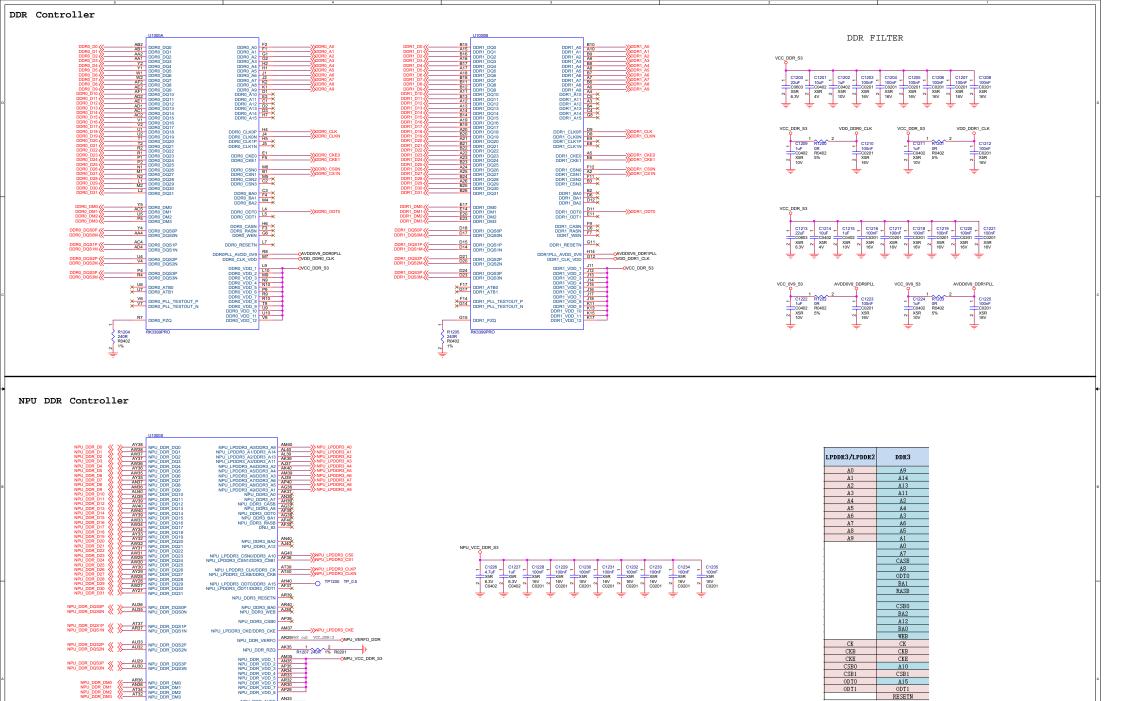
Ro	瑞芯微电子 Fuzhou Rock	chip	Electronics	
Project:	RK3399Pro LP3S178P232DD8			
File: <page name=""></page>				
Date:	Monday, December 17, 2018	Rev:	V1.0	
Designed by:	HXS	Sheet:	2 of 99	









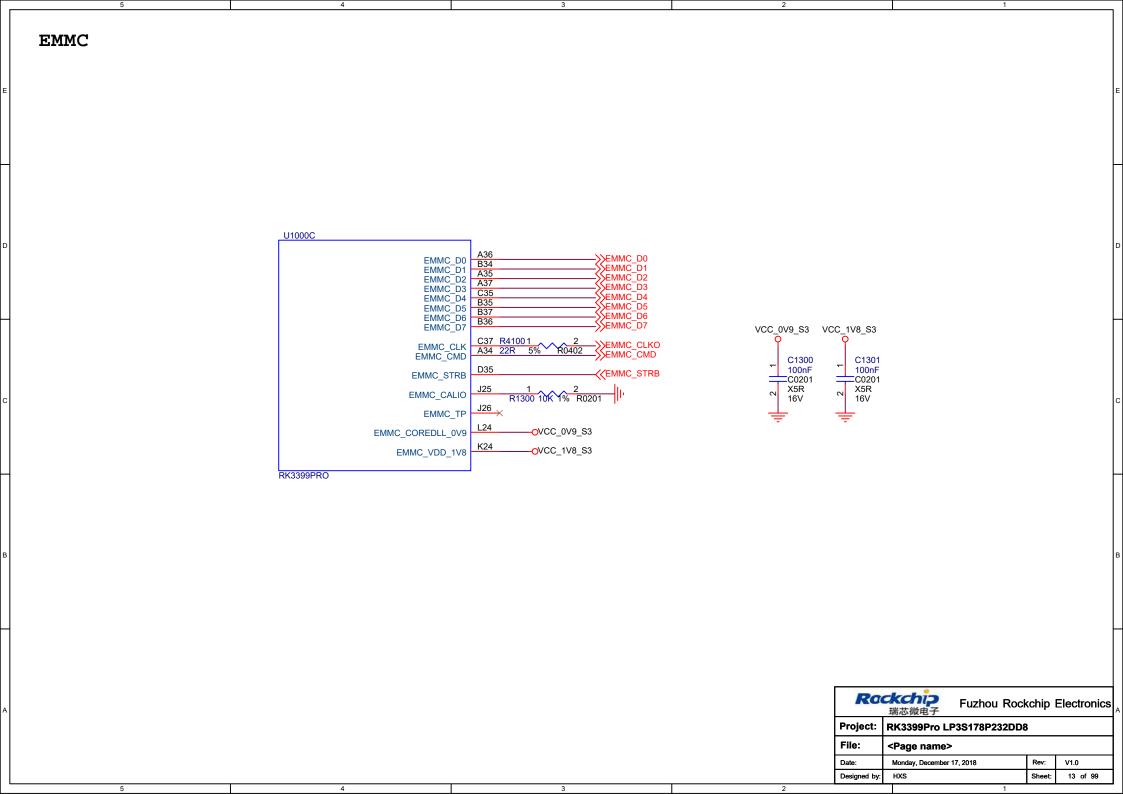


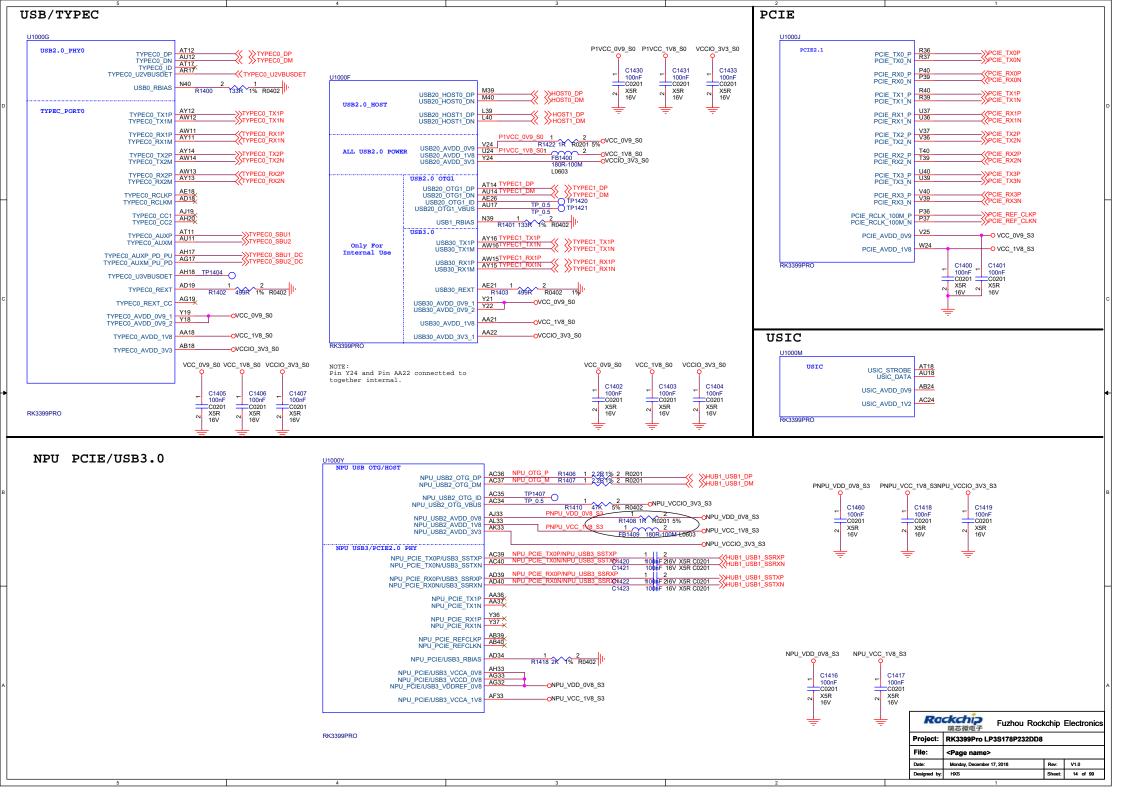
NPU_DDR_AVSS AN33

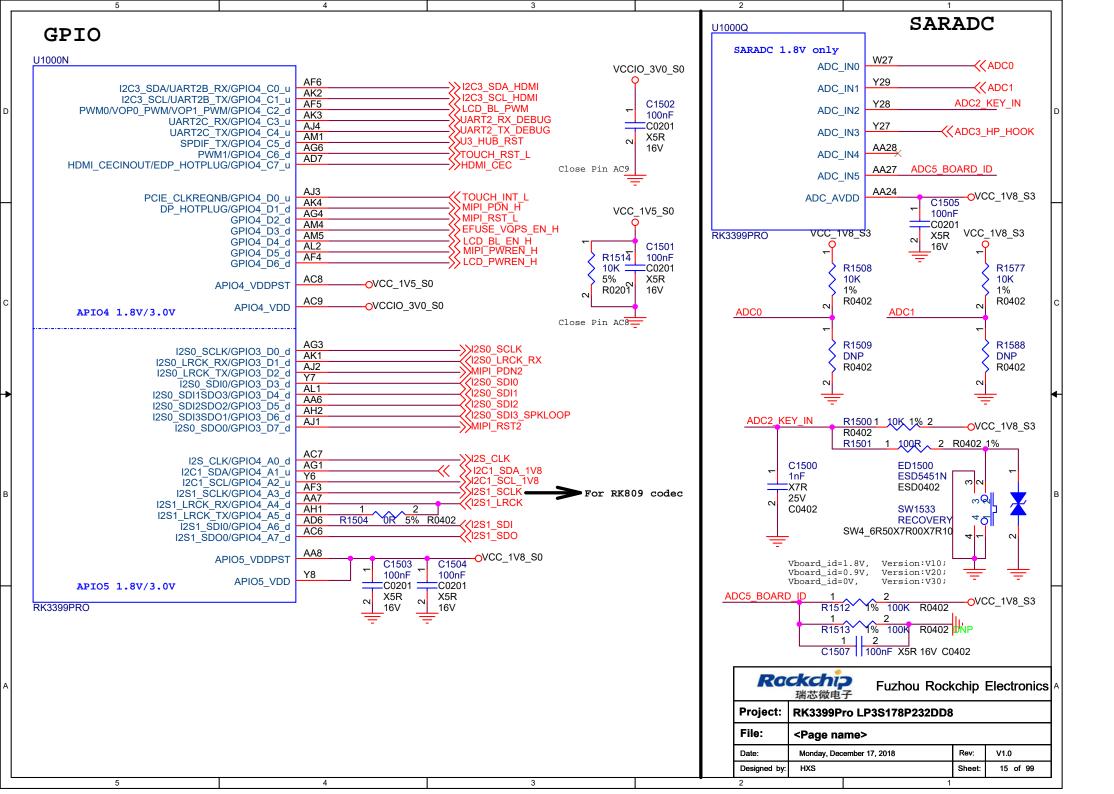
Ra	体合わ Fuzhou Rod	kchip	Electronics
Project:	RK3399Pro LP3S178P232DD8	t	
File:	<page name=""></page>		
Date:	Monday, December 17, 2018	Rev:	V1.0
Designed by:	HXS	Sheet:	12 of 99

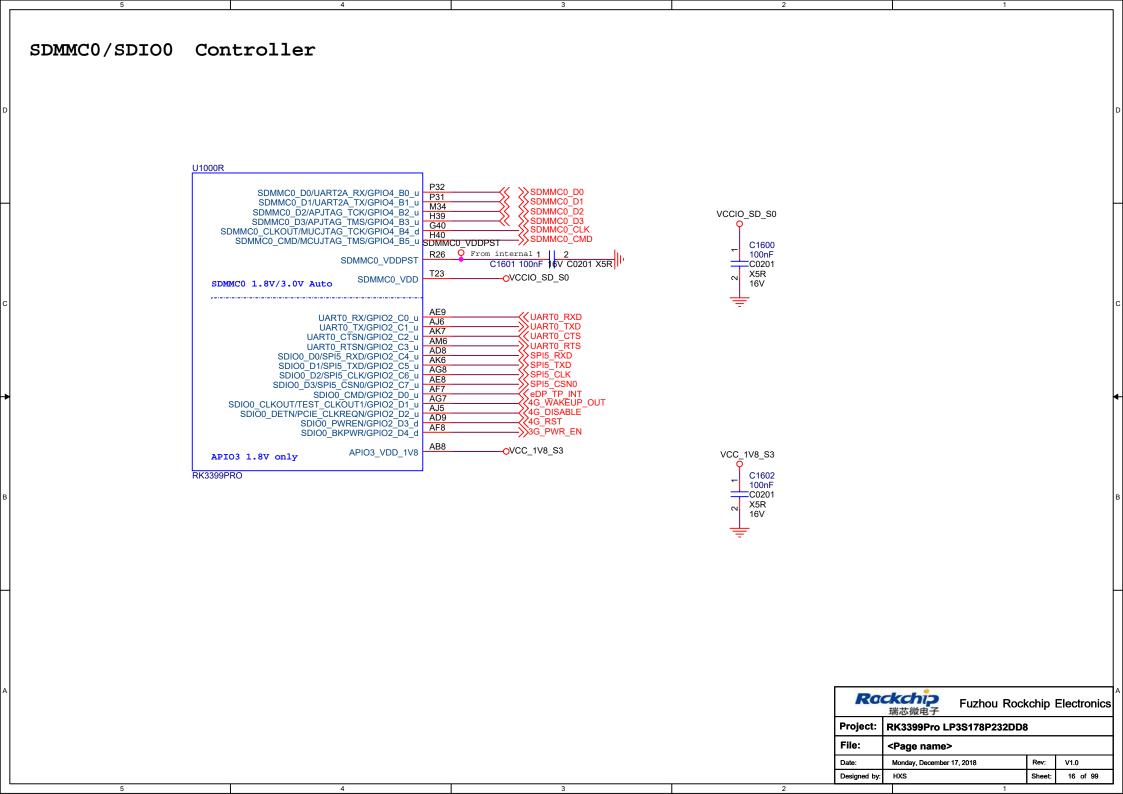
ODT1

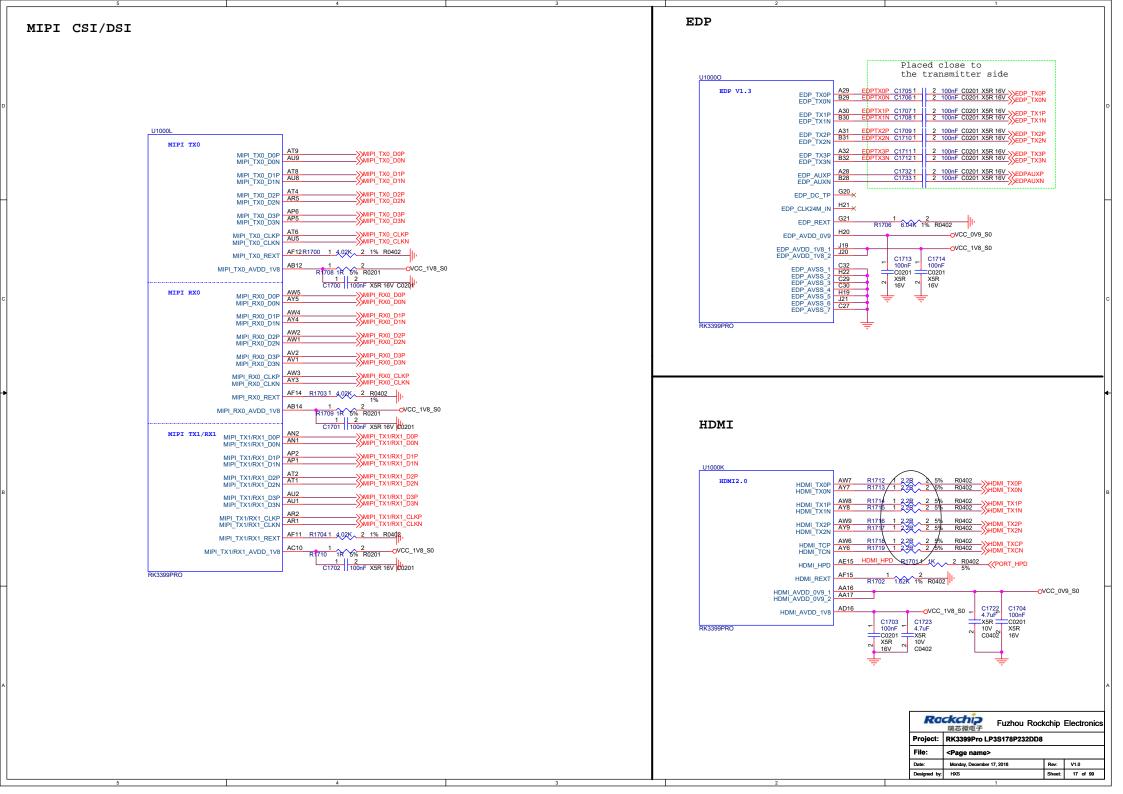
ODT1

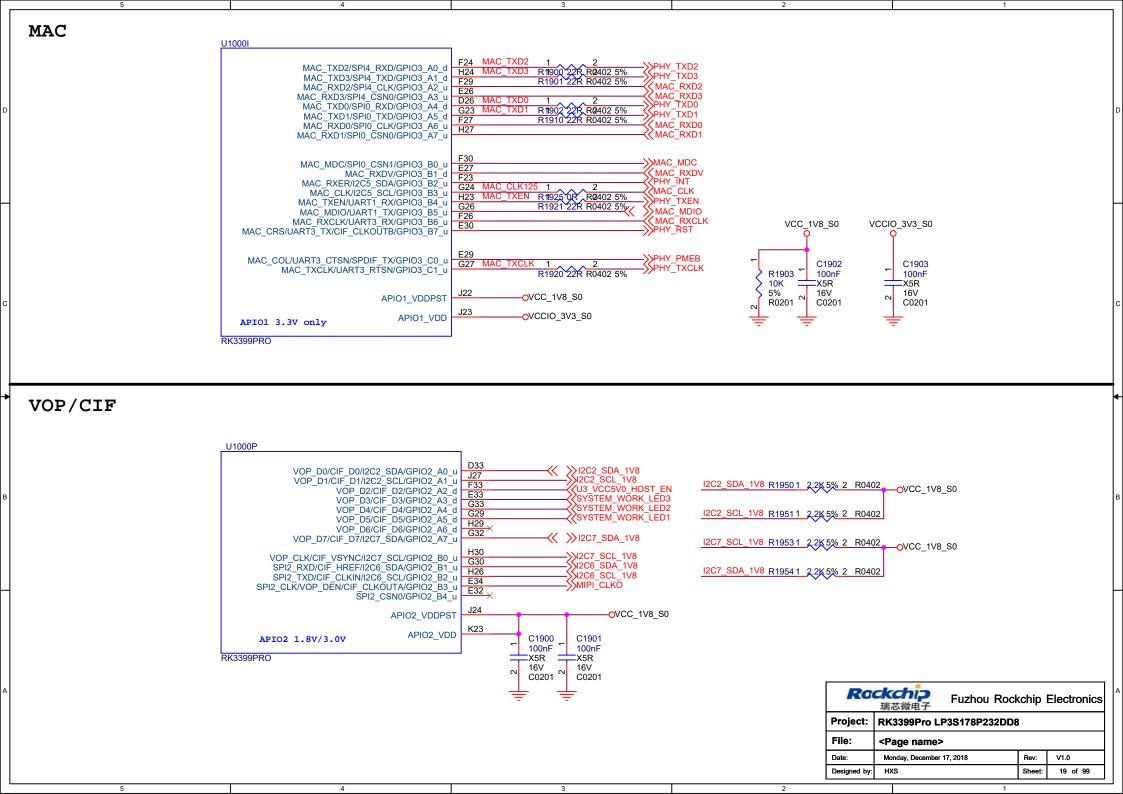


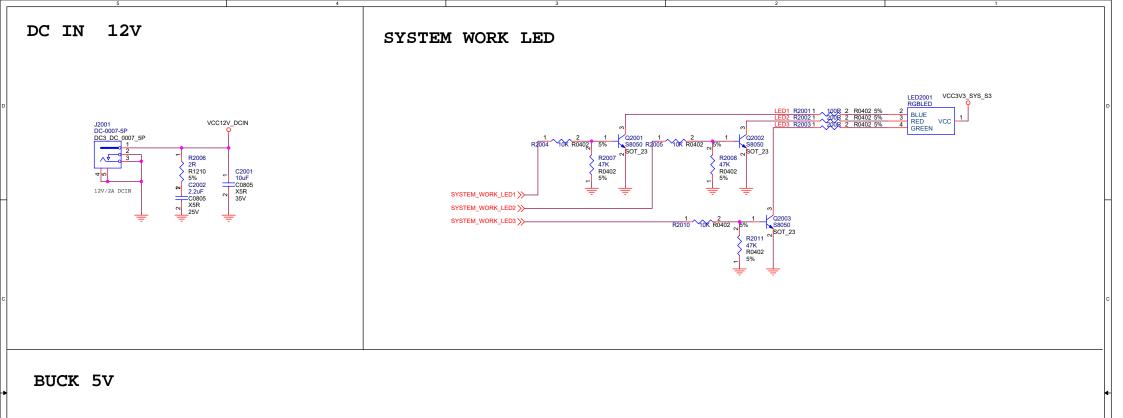


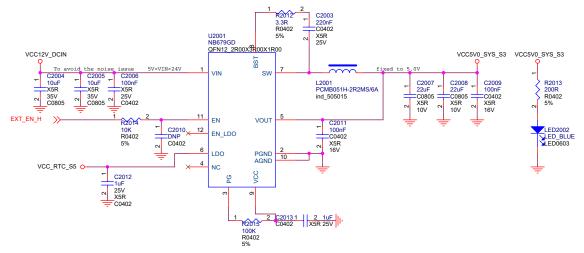




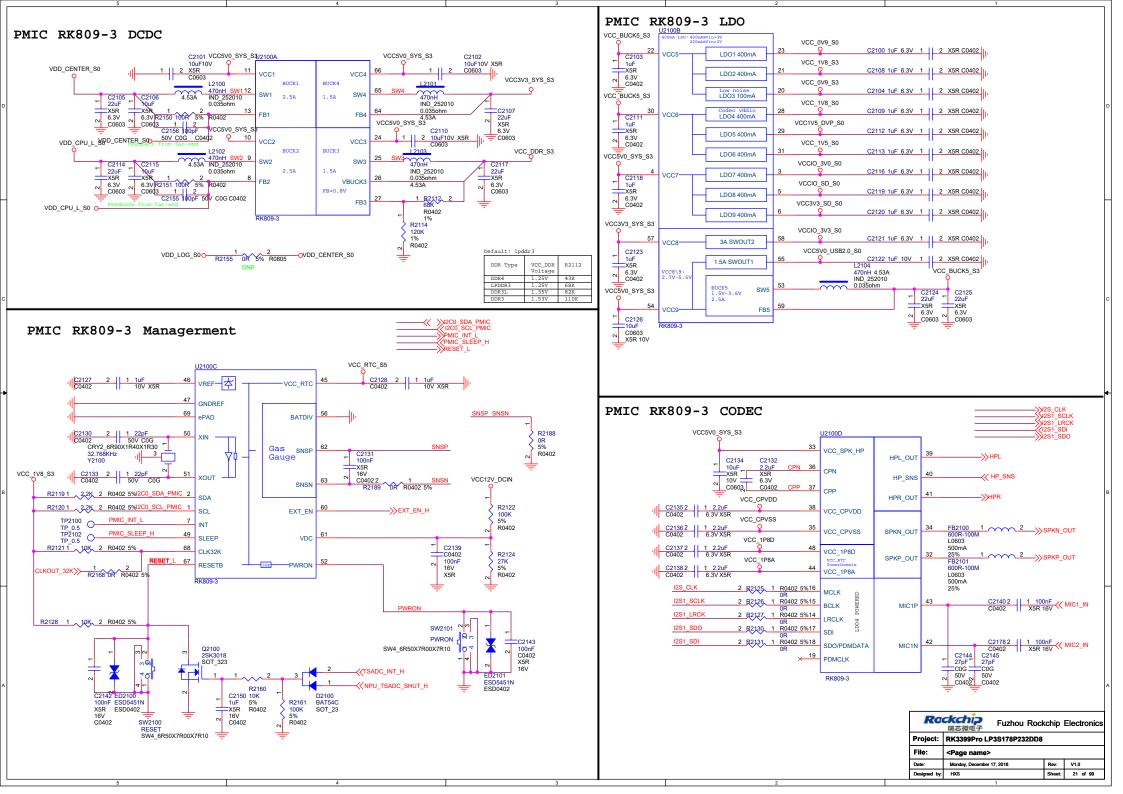


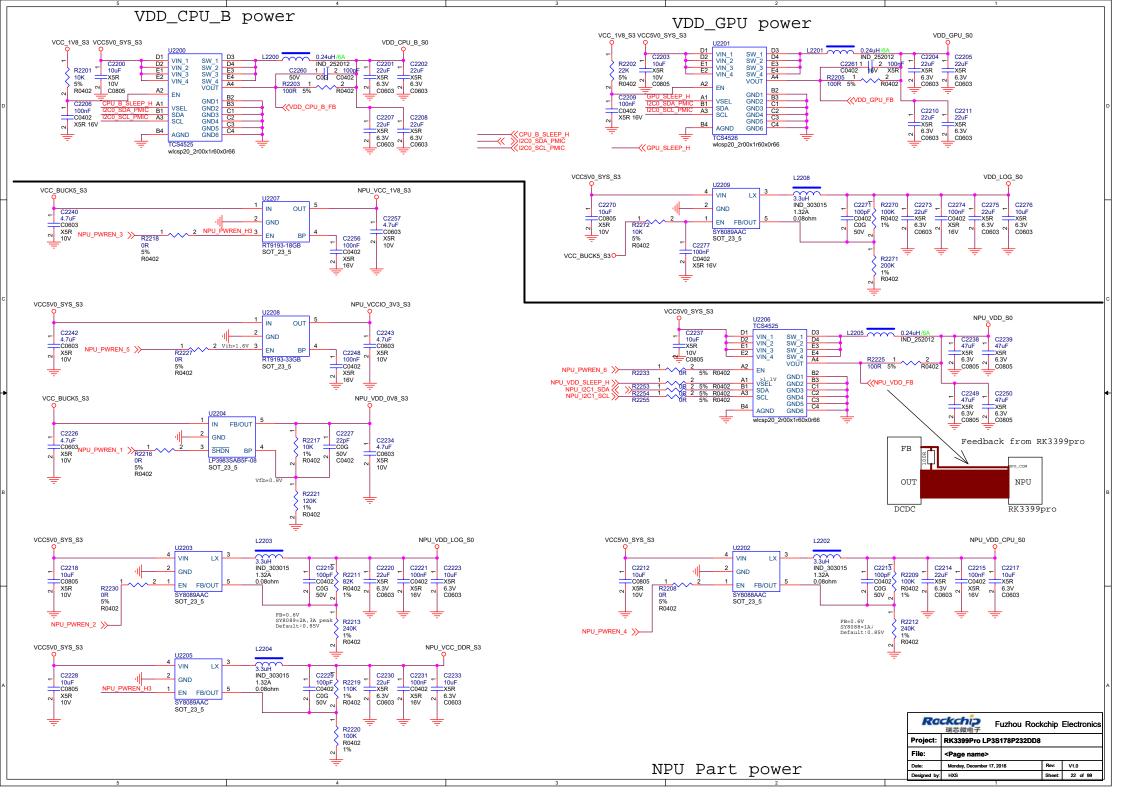


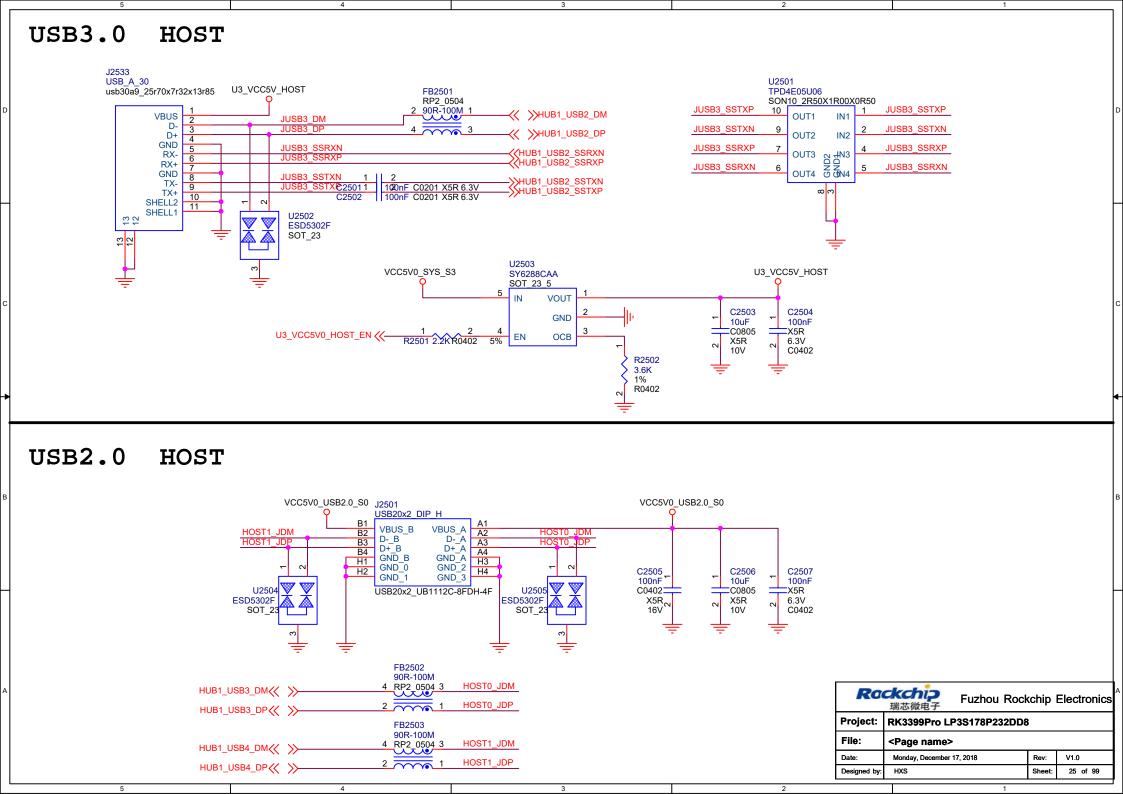


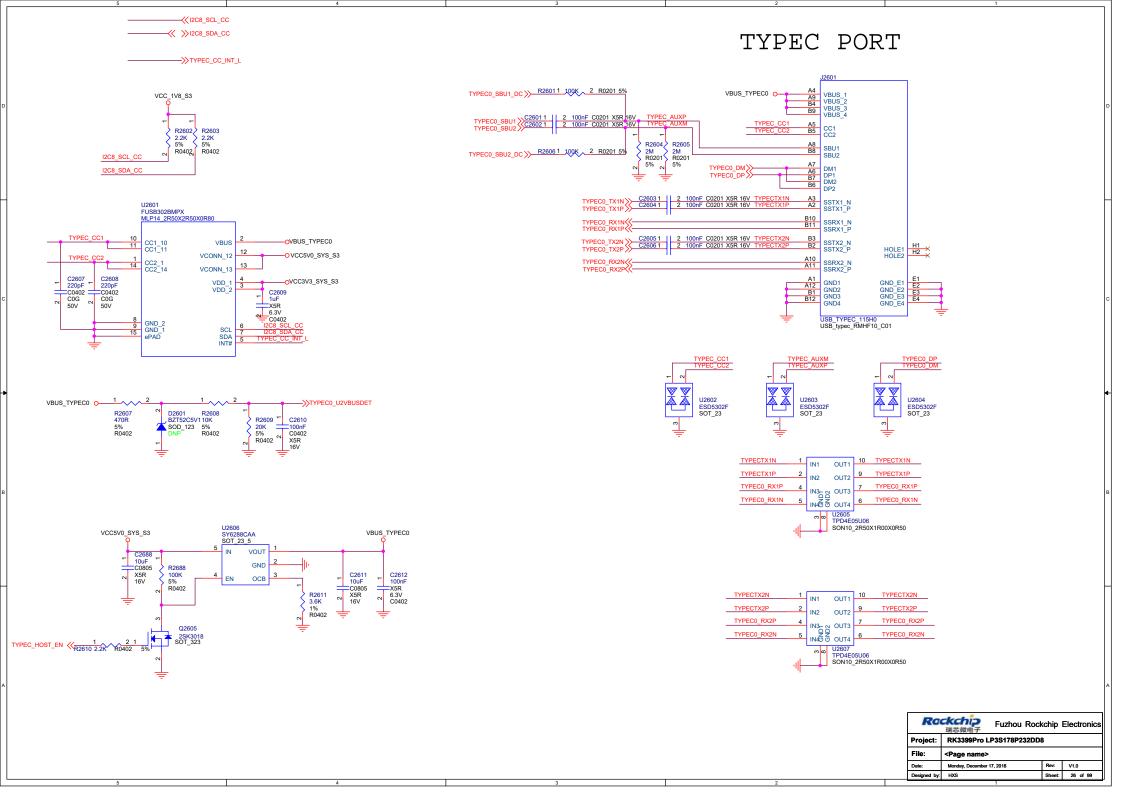


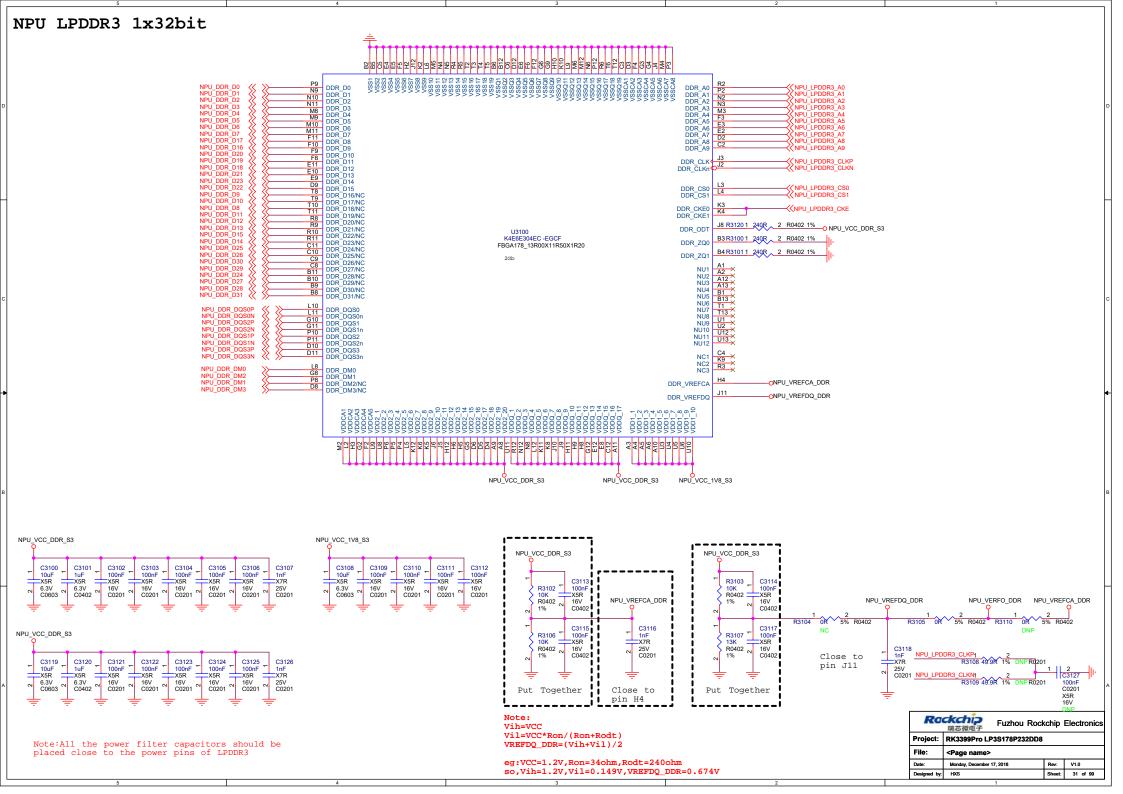
Ro	床 時 時 表 常 表 第 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日	cchip	Electronics
Project:	RK3399Pro LP3S178P232DD8 <page name=""></page>		
File:			
Date:	Monday, December 17, 2018	Rev:	V1.0
Designed by:	HXS	Sheet:	20 of 99

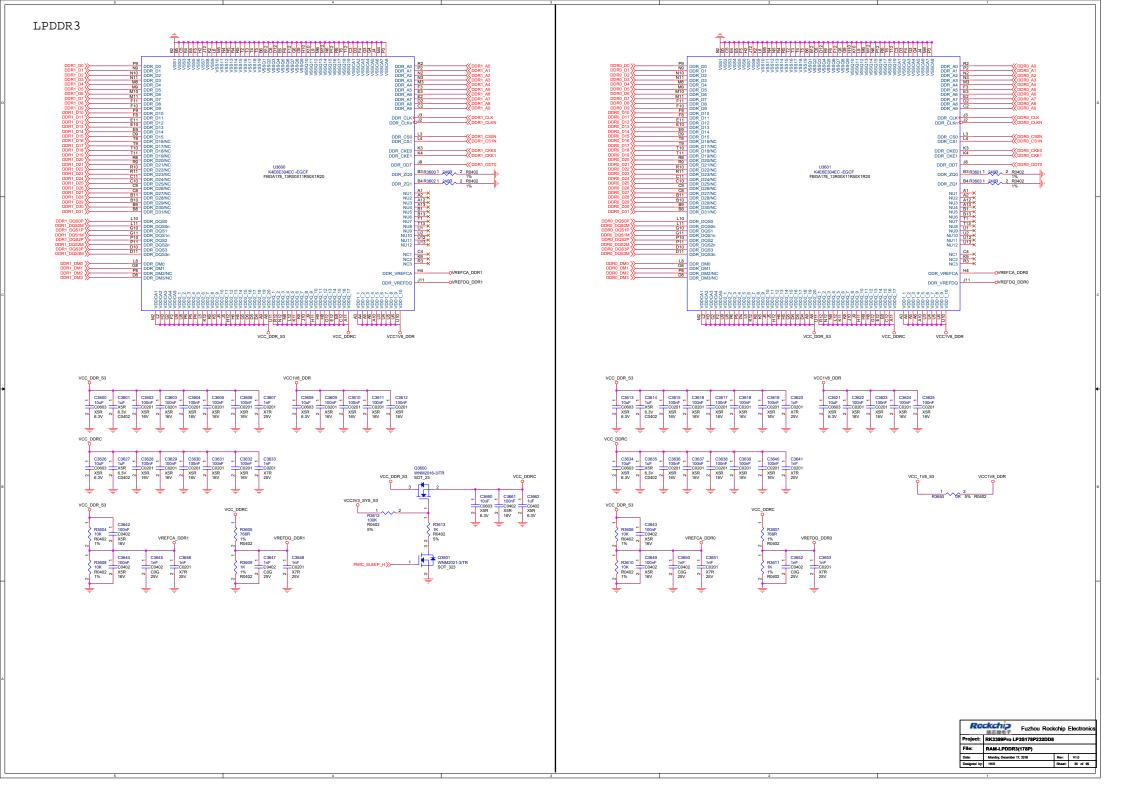


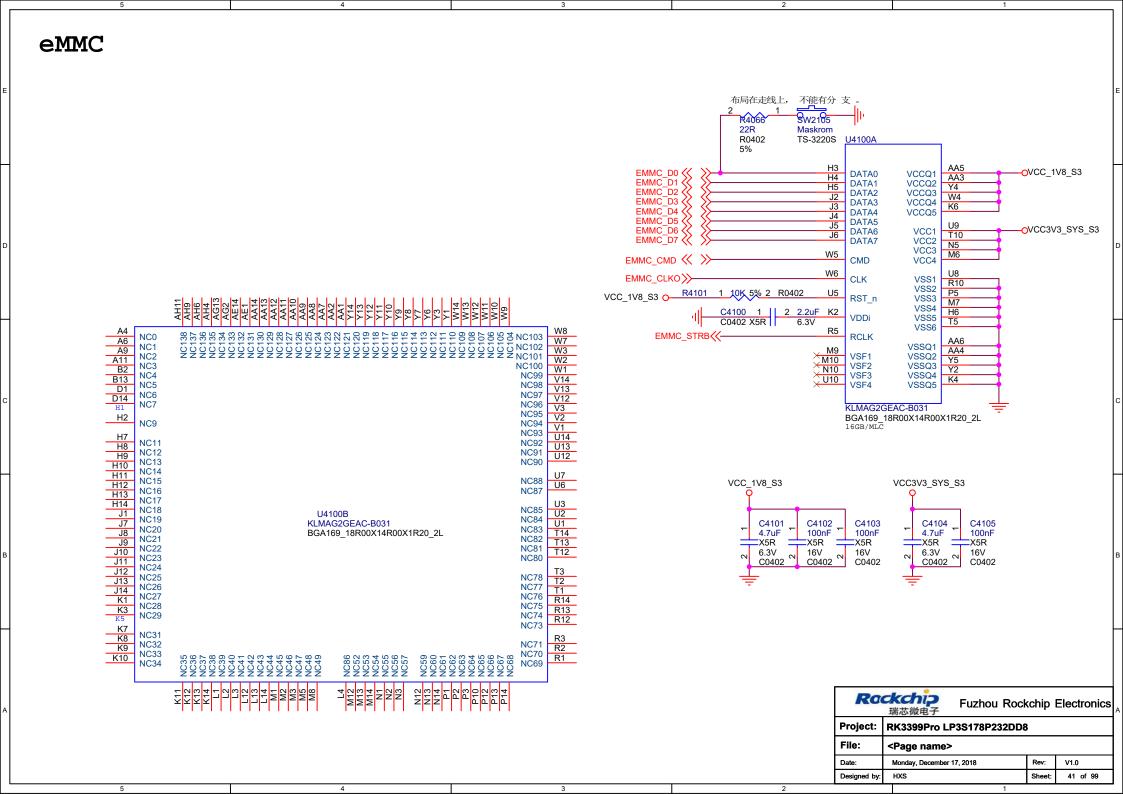


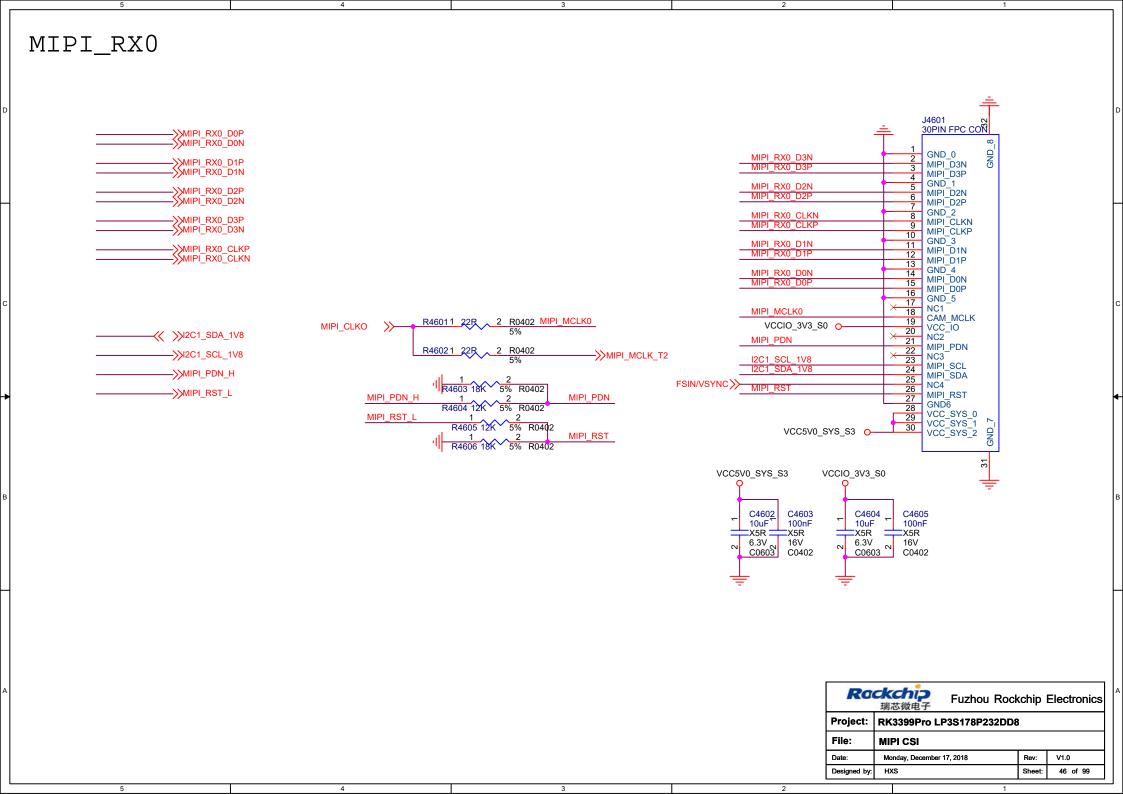


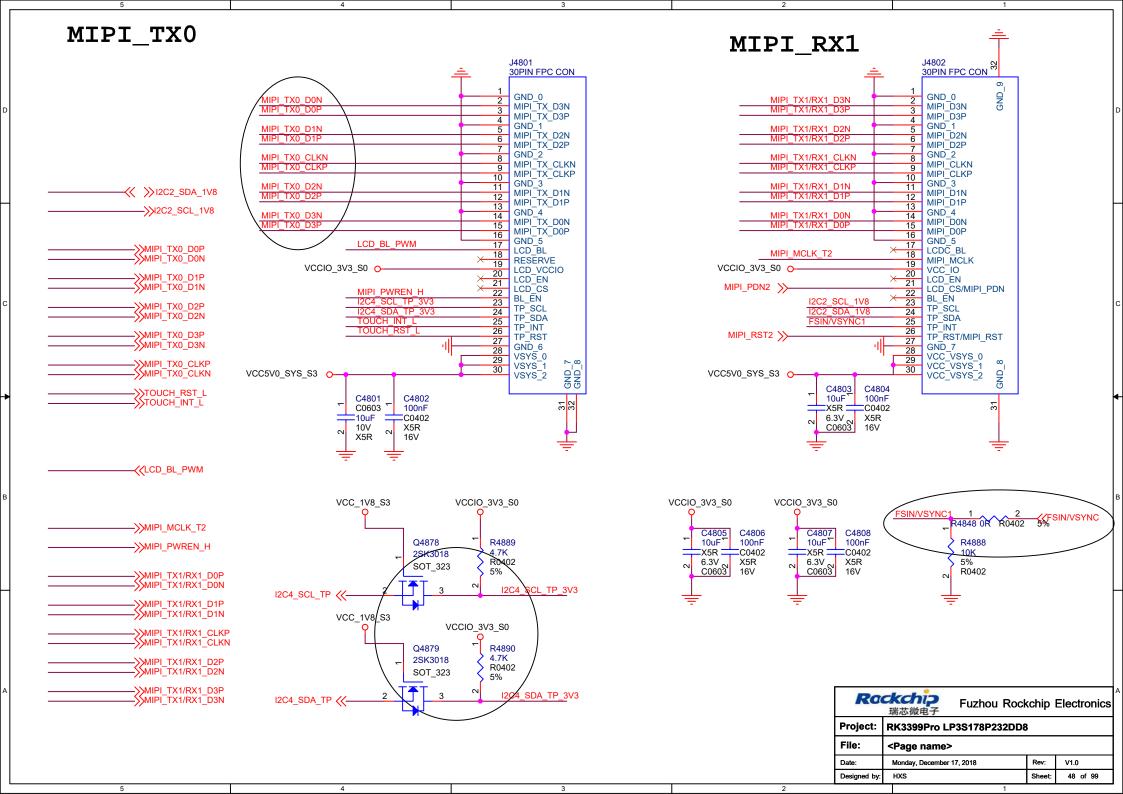


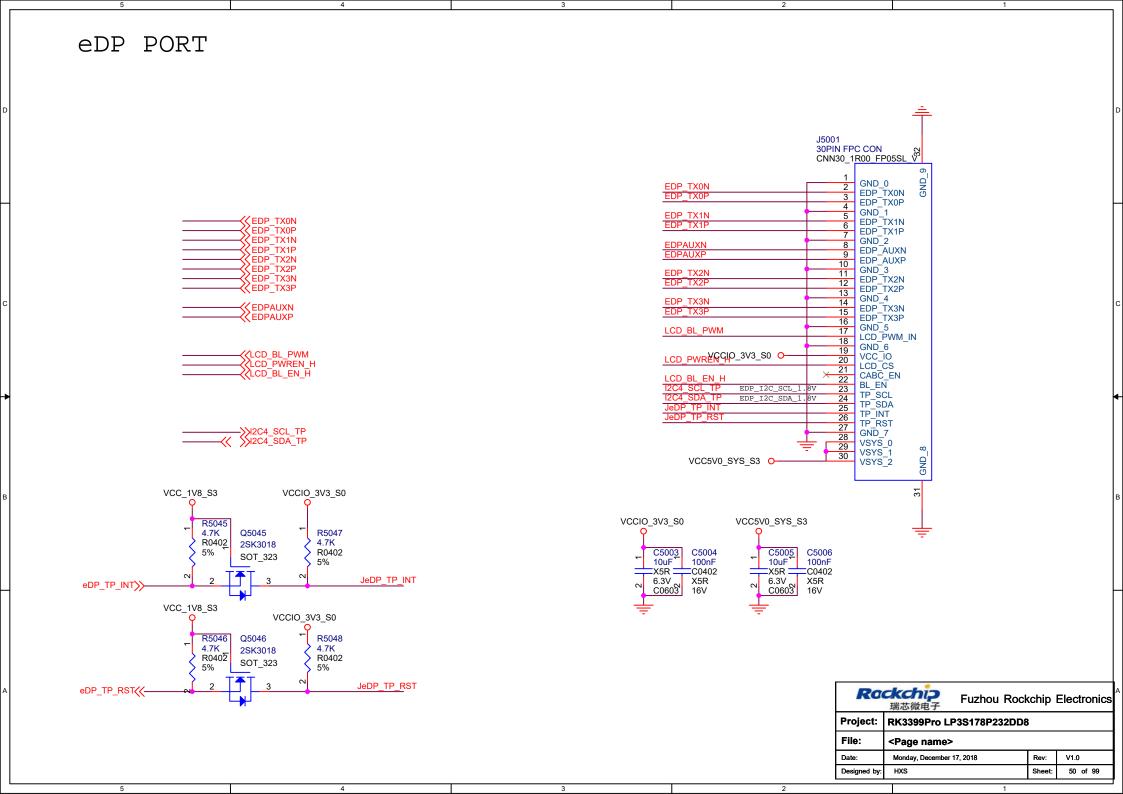


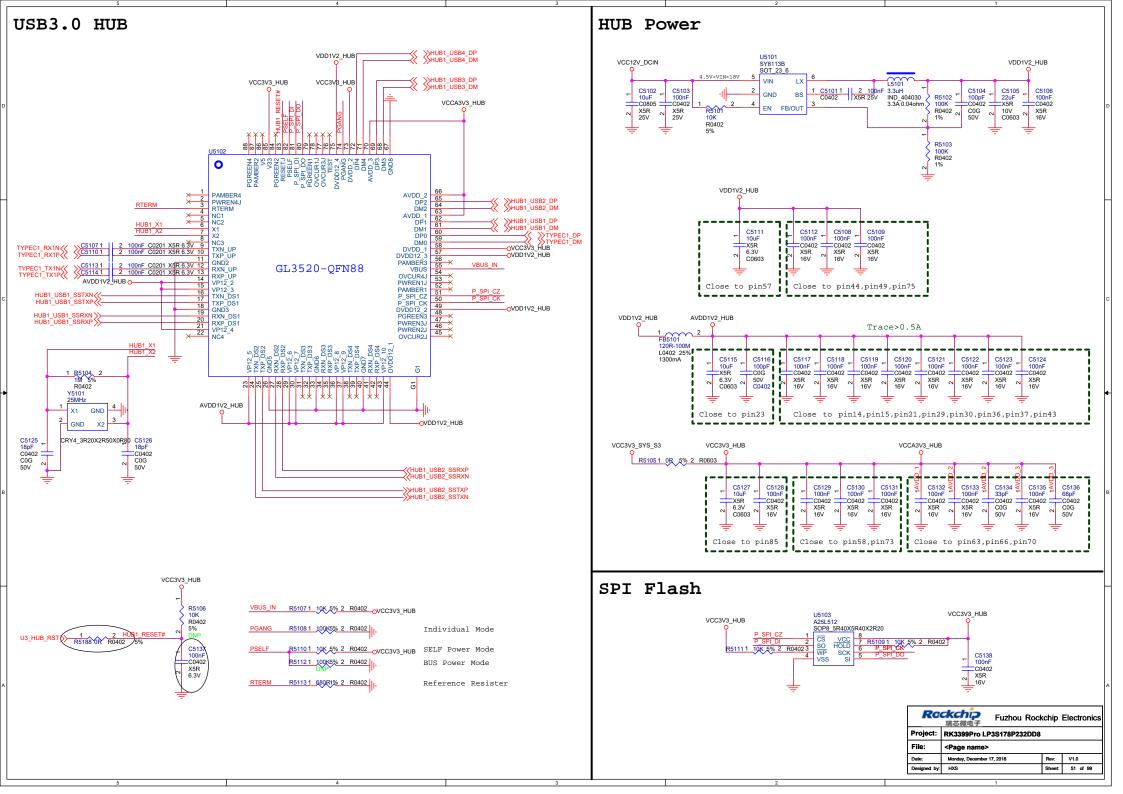




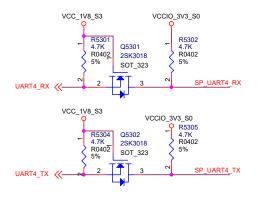


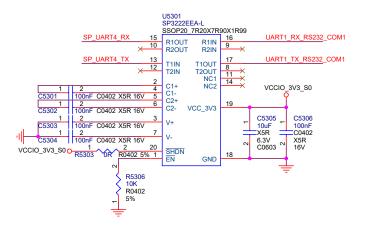


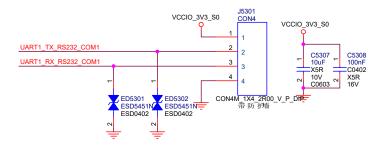




UART RS232 Port1







Rockchip 端芯微电子 Fuzhou Rockchip Electronics			
Project:	RK3399Pro LP3S178P232DD8		
File:	<page name=""></page>		
Date:	Monday, December 17, 2018	Rev:	V1.0
Designed by:	HXS	Sheet:	53 of 99

4

