Content Indexing

01.Index

02.Modify note

03.Block Diagram

04.Power Tree

05.System Power

06.RK3288 USB/HSIC Controler

07.USB HOST Port

08.RK3288 RAM Controler

09.RAM-DDR3-4X16bit

10.Nand FLASH/eMMC/TF Card

11.RK3288 GPIO/POWER

12.HDMI OUT

13.RK3288 LCDC/I2S Controler

14.RK1000-S-AV OUT

15.S/PDIF OUT

16.RK3288 Ethernet MAC Controler

17.10/100/1000M-PHY

18.RK3288 SDIO0 Controler

19.AP6XXX-WIFI/BT

20.USB WIFI-(option)

21.MIPI Interface

22.DTV-(Reserve)

23.HDMI IN

24.VGA OUT

6 LAYERS PCB STACK

TOP(Signal1)

GND1

FR4,thickness:3.8mil,Dielectric Constant:4.3

FR4,thickness:8mil,Dielectric Constant:4.3

Cu,thickness:1.5mil, loz

Cu,thickness:1.5mil, loz

Cu,thickness:1.5mil, loz

Cu,thickness:1.5mil, loz

Cu,thickness:1.5mil, loz

Cu,thickness:1.5mil, loz

FR4,thickness:8mil,Dielectric Constant:4.3

Cu,thickness:1.5mil, loz

GND2

FR4,thickness:8mil,Dielectric Constant:4.3

Cu,thickness:1.5mil, loz

Cu,thickness:1.5mil, loz

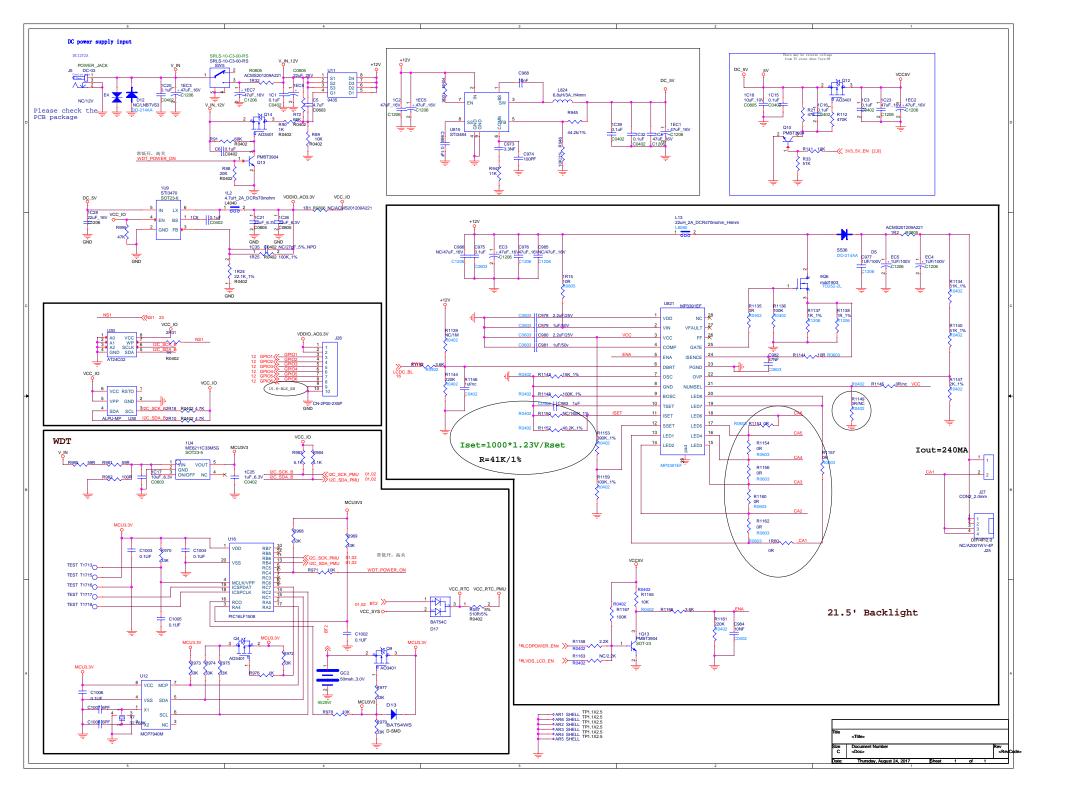
Cu,thickness:1.5mil, loz

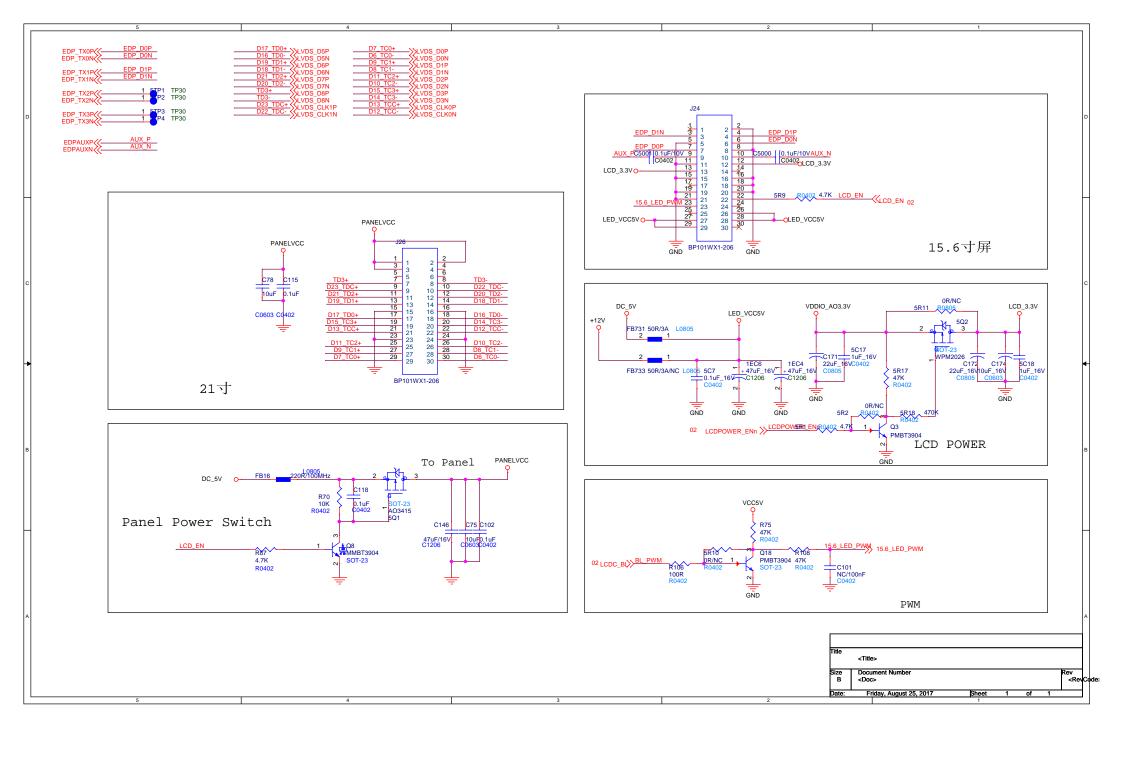
Cu,thickness:0.7mil,Plating to loz

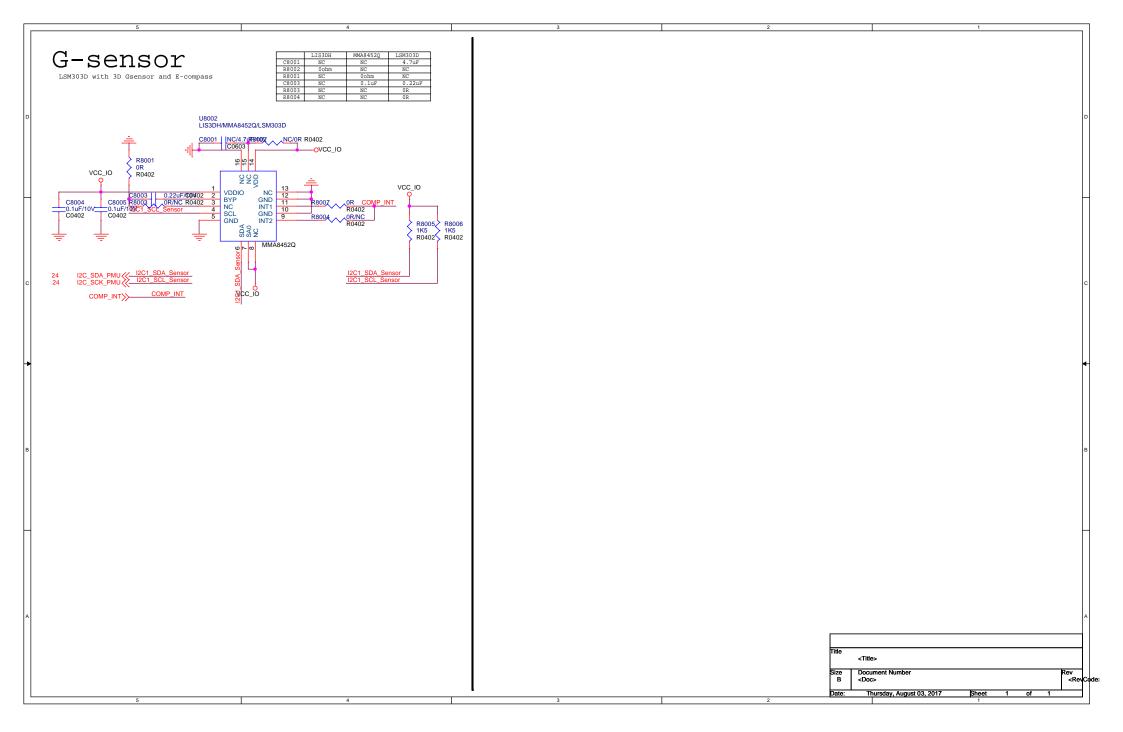
_{輸法徴电子} 福州錦笠織电子有際と司 Title: Index File: RK3288_BOX_Ref

Create Date: Sunday, January 26, 2014 Page Num: 1

Modify Date: Monday, July 03, 2017 Page Total: 24







Version	Date	Author	Change Note	Approved
Beat V0.1	20140217	ZDZ	First edictor	
Beat V0.2	20140227	ZDZ	1:PMIC_SLEEP更改接RK3288-J28管脚 2:ROUT/LOUT耦合电容前后网络名一致,耦合电容前网络更改为RK1000-ROUT/LOUT 3:各电源的电容优化 4:S/PDIF电源预留可使用VCCA_33,待机时可以关掉。 5: AV OUT座子的CVBS输出管脚和LOUT对掉 6:SPK_CTL更改接RK3288-G24管脚	
V1.0	20140422	ZDZ	1: 见修改文档.	
V1.1	20140516	ZDZ	1: RK3288 PIN AB23,Y12更改接VCCA_33 2: ACT8846和复位IC之间预留一个0R电阻(R203)。如果使用MCU,需用外部的复位IC。R203不贴. 3: 以太网的TX信号增加上拉电阻,增强驱动能力。 4: ACT8846 DC4要用上,否则上电不了。 5: ACT8846 INL3输入电源默认用VCC_20供电。 6: 解决HDMI CEC漏电问题 7: R85更改成510R 8: 增加VDD_CPU,VDD_GPU电容,降低纹波 9: R146更改22R,原来是NC不贴。 10: 增加Audio Line Driver 11: 修改eMMC电源,默认支持1.8V的高速eMMC。 12: ACT8846型号修正,配RK3288的型号为ACT8846QM490-T 13: RTC IC电源增加预留VCC_SYS供电 14: HDMI ESD器件型号修改 15: 更新原理图框图,POWER TREE,原来有误。 16: L26,L27更改成SWPA5020SR24NT/5A	
V1.2	20140805	ZDZ	1: 修改记录请见RK3288_BOX_REF_V1.2_20140806原理图修改点	
V1.3	20140926	ZDZ	1: 修改记录请见RK3288_BOX_REF_V1.3_20140928原理图修改点	
V1.4			1: 在V1.3上增加нDMI IN功能,没有对应的PCB。	
V1.5	20150628	ZDZ	1: 在V1.3上基础上,HDMI座子由贴片修改成插件。	
V2.0	20150915	ZDZ	1: 增加HDMI IN和VGA OUT功能 2: 删掉MIC, 摄像头接口 3: 删掉单片机预留	
V3.0	20151224	LCH	1: 将PMIC由ACT8846-490修改为RK808-B	

Rockchip 瑞芯微电子 福州義多	版电子有限公司		
Title: Modify note			
File: RK3288_BOX_Ref	REV: 3.0		
Create Date: Saturday, October 23, 2010	Page Num: 2		
Modify Date: Monday, July 03, 2017	Page Total: 24		

