

# GPIO ASSIGNMENT

PIN	Define	CFG	Function
PA0	UART0_TX	5	DEBUG
PA1	UART0_RX	5	
PA2	DVP-RESET	1	DVP
PA3	DVP-PWDN	1	
PA4	PA_SHDN	1	
PA5	CAMERA_KEY	1	
PA8	RTP-XP-SCL	2/4	RTP/CTP
PA9	RTP-YP-SDA	2/4	
PA10	RTP-XN-RST	2/1	
PA11	RTP-YN-INT	2/1	

PIN	Define	CFG	Function
PB0	SPI0-WP	2	NOR/ NAND
PB1	SPI0-MISO	2	
PB2	SPI0-CS	2	
PB3	SPI0-HOLD	2	
PB4	SPI0-CLK	2	
PB5	SPI0-MOSI	2	WIFI
PB6	SDC0-CMD	2	
PB7	SDC0-CLK	2	
PB8	SDC0-D3	2	
PB9	SDC0-D0	2	
PB10	SDC0-D1	2	
PB11	SDC0-D2	2	

PIN	Define	CFG	Function
PC0	SDC1-D1	2	TF CARD
PC1	SDC1-D0	2	
PC2	SDC1-CLK	2	
PC3	SDC1-CMD	2	
PC4	SDC1-D3	2	
PC5	SDC1-D2	2	
PC6	SDC1-DET	2	


PIN	Define	Define	CFG	Function
PD0		I2C0_SCL	4	DVP
PD1		I2C0_SDA	4	
PD2		UART1-TX	5	RS485
PD3		UART1-RX	5	
PD4		UART2_TX	5	232/TTL
PD5		UART2_RX	5	
PD6		USB_ID	1	USB
PD7		WIFI_ON	1	WIFI
PD8	LCD0-B3		2	RGB565
PD9	LCD0-B4		2	
PD10	LCD0-B5		2	
PD11	LCD0-B6		2	
PD12	LCD0-B7		2	
PD13	LCD0-G2		2	
PD14	LCD0-G3		2	
PD15	LCD0-G4		2	
PD16	LCD0-G5		5	
PD17	LCD0-G6		5	
PD18	LCD0-G7	LVDS_D0N	2/3	/RGB565 /LVDS
PD19	LCD0-R3	LVDS_D0P	2/3	
PD20	LCD0-R4	LVDS_D1N	2/3	
PD21	LCD0-R5	LVDS_D1P	2/3	
PD22	LCD0-R6	LVDS_D2N	2/3	
PD23	LCD0-R7	LVDS_D2P	2/3	
PD24	LCD0-DCLK	LVDS_CKN	2/3	
PD25	LCD0-HS	LVDS_DKP	2/3	
PD26	LCD0-VS	LVDS_D3N	2/3	
PD27	LCD0-DE	LVDS_D3P	2/3	

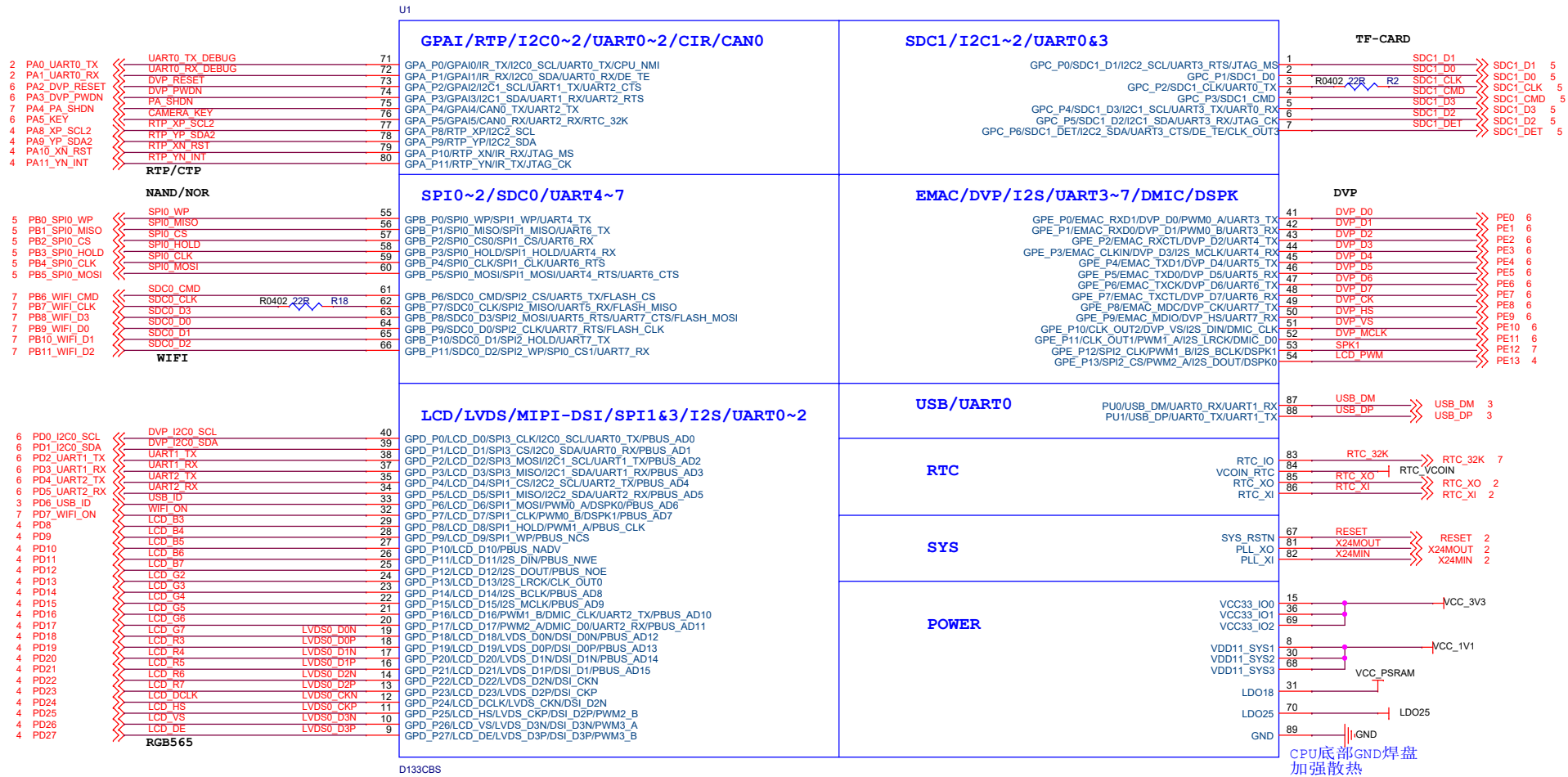
PIN	Define	CFG	Function
PE0	DVP-D0	3	DVP
PE1	DVP-D1	3	
PE2	DVP-D2	3	
PE3	DVP-D3	3	
PE4	DVP-D4	3	
PE5	DVP-D5	3	
PE6	DVP-D6	3	
PE7	DVP-D7	3	
PE8	DVP-CK	3	
PE9	DVP-HS	3	
PE10	DVP-VS	3	
PE11	DVP-MCLK	5	
PE12	DSPK1	5	
PE13	LCD_PWM	3	PWM2_A

PIN	Define	CFG	Function
PU0	USB_DM	2	USB
PU1	USB_DP	2	

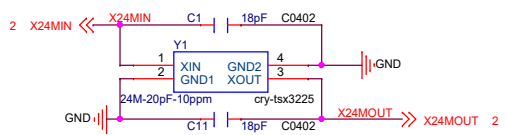
Ver.	Change list	Date
V1.0	Initial Version	2023.10.26



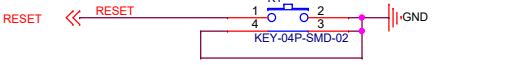
	<b>ArtInChip Technology Co., Ltd</b> Design Name <b>D133CBS-QFN88-HMI</b>		
	Size A3 Page Name <b>GPIO ASSIGNMENT</b>	Rev V1.0	
	Date: 2023-11-23		Sheet 1 of 7



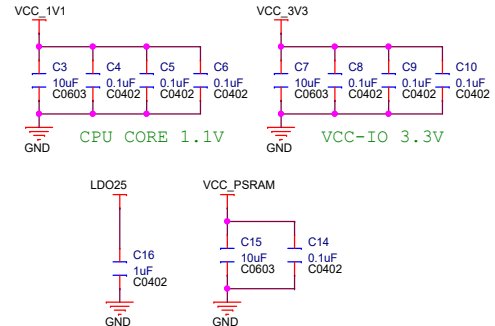
**PLL**



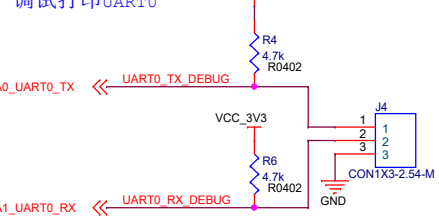
**RESET**



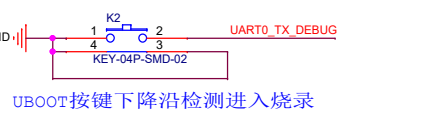
**CPU decouple cap**



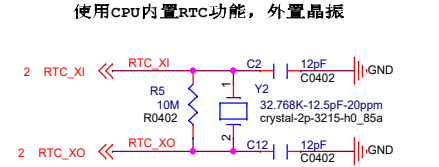
**DEBUG**



**UBOOT**



**RTC**



<Variant Name>

**ArtInChip Technology Co., Ltd**

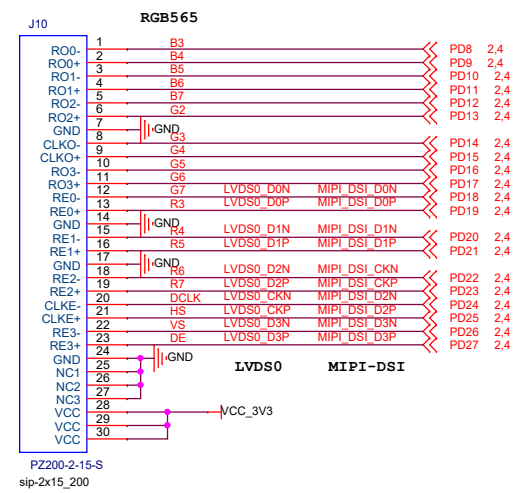
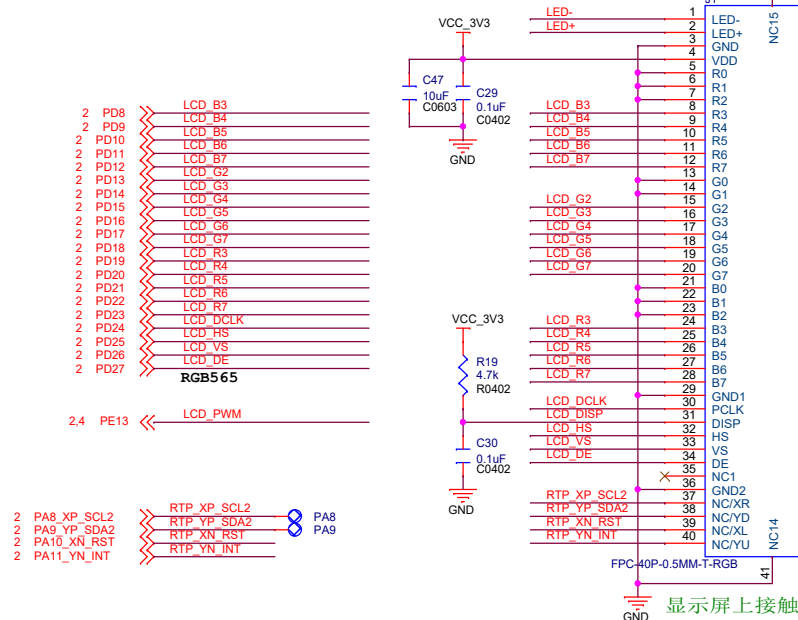
Design Name: **D133CBS-QFN88-HMI**

Size: A3 Page Name: **CPU** Rev: V1.0

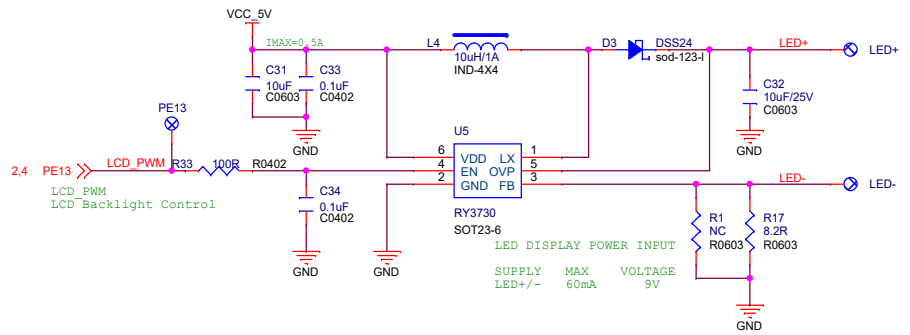
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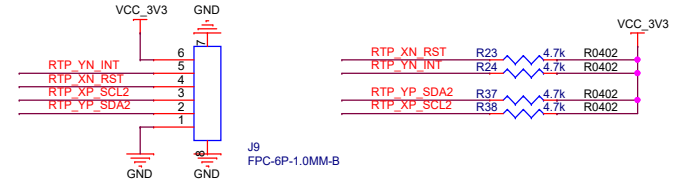
### 4.3" RGB565



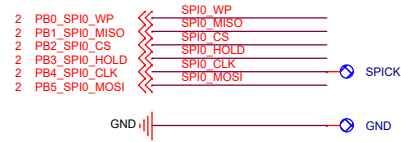
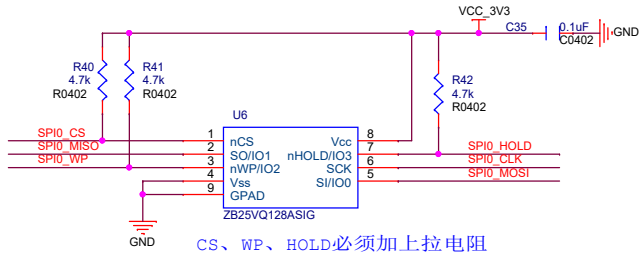
### BACKLIGHT



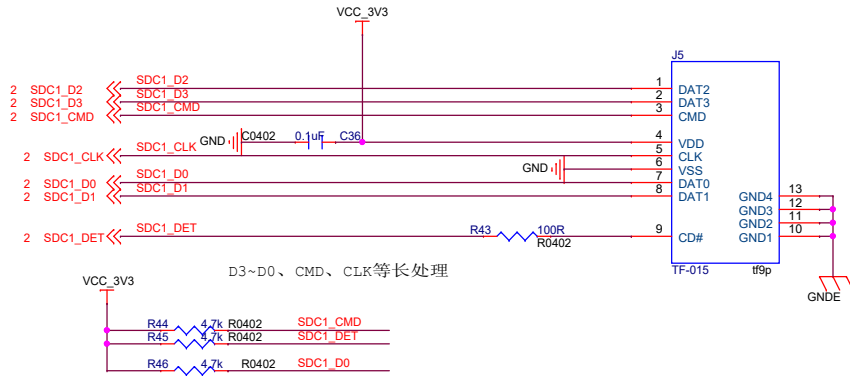
### CTP




## QSPI NOR/NAND



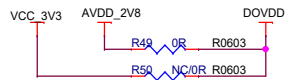
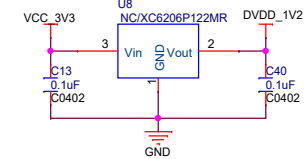
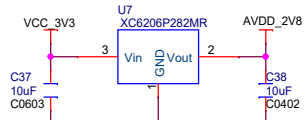
## TF-CARD



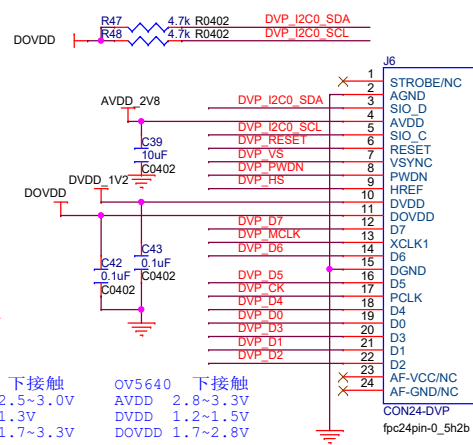
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		<b>ArtInChip Technology Co., Ltd</b> Design Name	
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Size	Page Name	Rev	
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## DVP CAMERA

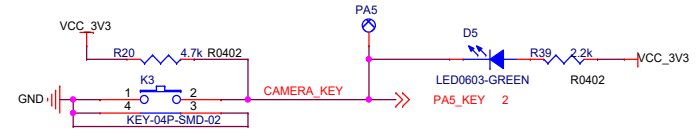


- 2 PE0 <<> DVP\_D0
- 2 PE1 <<> DVP\_D1
- 2 PE2 <<> DVP\_D2
- 2 PE3 <<> DVP\_D3
- 2 PE4 <<> DVP\_D4
- 2 PE5 <<> DVP\_D5
- 2 PE6 <<> DVP\_D6
- 2 PE7 <<> DVP\_D7
- 2 PE8 <<> DVP\_CK
- 2 PE9 <<> DVP\_HS
- 2 PE10 <<> DVP\_VS
- 2 PE11 <<> DVP\_MCLK
- 2 PD0\_I2C0\_SCL <<> DVP\_I2C0\_SCL
- 2 PD1\_I2C0\_SDA <<> DVP\_I2C0\_SDA
- 2 PA2\_DVP\_RESET <<> DVP\_RESET
- 2 PA3\_DVP\_PWDN <<> DVP\_PWDN

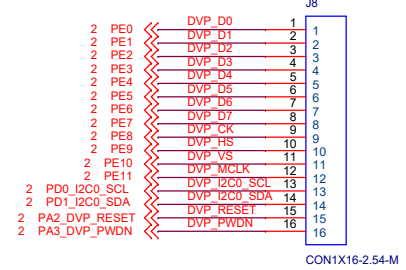


OV2640 下接触  
 AVDD 2.5~3.0V  
 DVDD 1.3V  
 DOVDD 1.7~3.3V

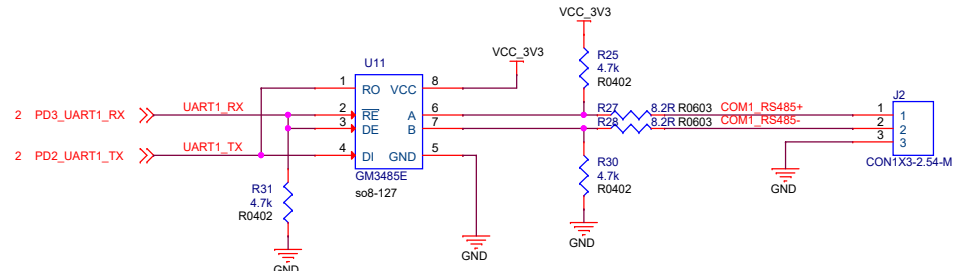
OV5640 下接触  
 AVDD 2.8~3.3V  
 DVDD 1.2~1.5V  
 DOVDD 1.7~2.8V



按键下降沿检测进入拍照

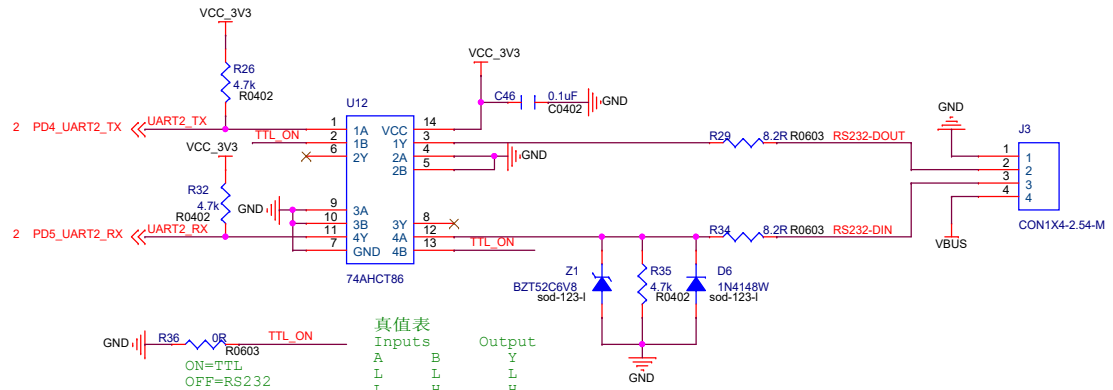


## RS485 UART1



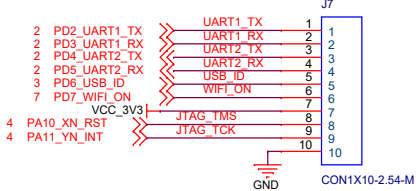
RS485 两线制模式接法，可节省1个PIN，自动控制收发  
 半双工：TX管脚既当发送又当接收；RX管脚自动控制收发方向

## RS232/TTL UART2



真值表

Inputs	A	B	Output	Y
L	L	L	L	L
L	L	H	H	H
H	L	L	H	H
H	L	H	L	L



<Variant Name>

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