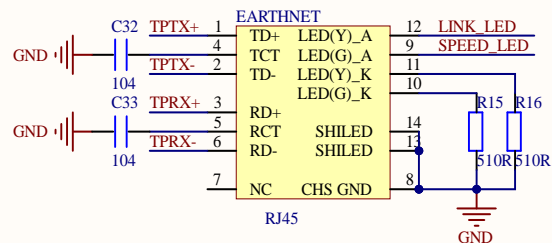
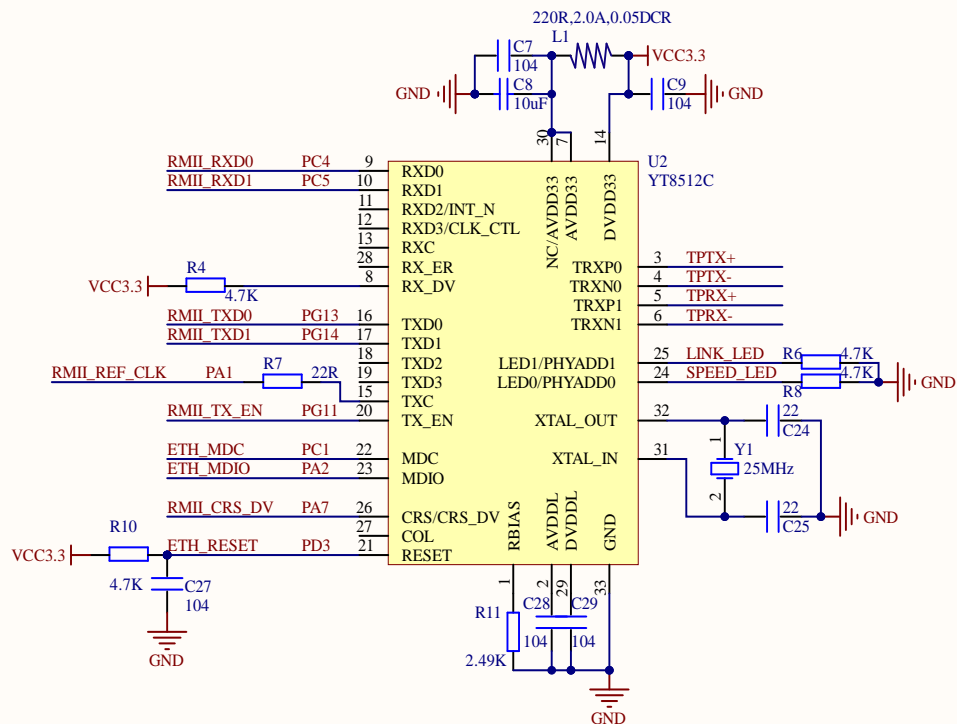
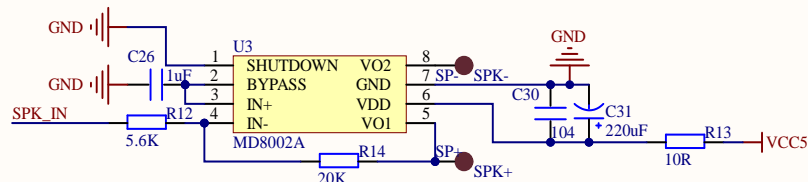
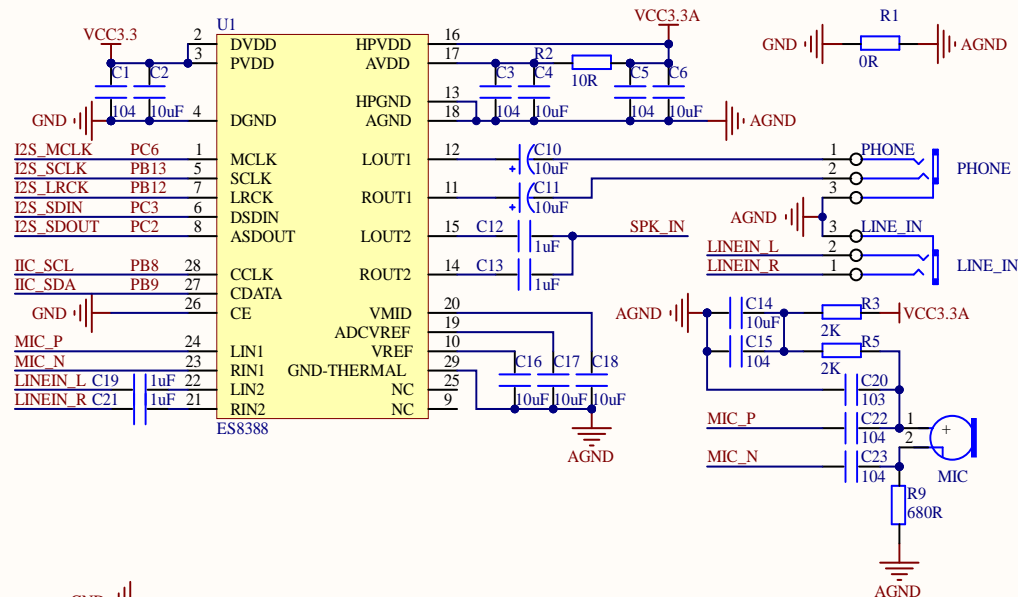


EARTHNET

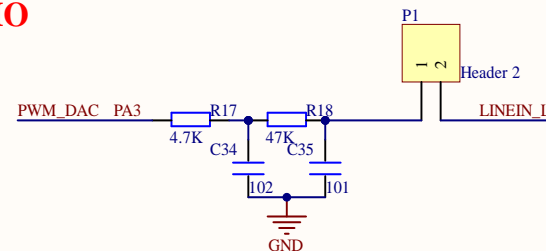


I2S DAC&ADC



SPK+和SPK- 连接开发板自带的喇叭，在开发板底部。

PWM DAC/AUDIO



Title:
Explorer STM32F407 Board
Author:
ATOM@ALIENTEK
Date:
2022/11/2
Revision:
V3.2

Size:
A4
File:
AUDIOÐNET.SchDoc
Version:

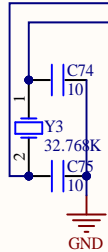


MCU

WM_UP	PA0	34	
RMIL_REF_CLK	PA1	35	
ETH_MDIO	USART2_TX	PA2	36
PWM_DAC	USART2_RX	PA3	37
STM_DAC	DCMI_HREF	PA4	40
	STM_ADC	PA5	41
	DCMI_PCLK	PA6	42
RMIL_CRS_DV	PA7	43	
REMOTE_IN	DCMI_XCLK	PA8	100
	USART1_TX	PA9	101
	USART1_RX	PA10	102
	USB_D-	PA11	103
	USB_D+	PA12	104
	JTMS	PA13	105
	JTCK	PA14	109
USB_PWR	JTDI	PA15	110

	T_SCK	PB0	46
	T_PEN	PB1	47
T_MISO	BOOT1	PB2	48
SPI1_SCK	JTDO	PB3	133
SPI1_MISO	JTRST	PB4	134
SPI1_MOSI		PB5	135
	DCMI_D5	PB6	136
	DCMI_VSYNC	PB7	137
	IIC_SCL	PB8	139
	IIC_SDA	PB9	140
	USART3_TX	PB10	69
	USART3_RX	PB11	70
I2S_LRCK		PB12	73
I2S_SCLK		PB13	74
	F_CS	PB14	75
	LCD_BL	PB15	76

GBC_LED	3D_INT	PC0	26
ETH_MDC		PC1	27
I2S_SDOUT		PC2	28
I2S_SDIN		PC3	29
RMII_RXD0		PC4	44
RMII_RXD1		PC5	45
I2S_MCLK	DCMI_D0	PC6	96
	DCMI_D1	PC7	97
SDIO_D0	DCMI_D2	PC8	98
SDIO_D1	DCMI_D3	PC9	99
SDIO_D2		PC10	111
SDIO_D3	DCMI_D4	PC11	112
SDIO_SCK		PC12	113
	T_CS	PC13	7
			8
			9



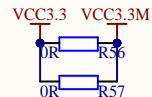
U14A

PA0-WKUP/U2_CTS/U4_TX/ETH_MII_CRS/TIM2_CH1_ETR/TIM5_CH1/TIM8_ETR/ADC123_IN0
PA1/U2_RTS/U4_RX/ETH_RMIL_REF_CLK/ETH_MII_RX_CLK/TIM2_CH2/TIM5_CH2/ADC123_IN1
PA2/U2_TX/TIM2_CH3/TIM5_CH3/TIM9_CH1/ETH_MDIO/ADC123_IN2
PA3/U2_RX/TIM2_CH4/TIM5_CH4/TIM9_CH2/OTG_HS_ULPI_D0/ETH_MII_COL/ADC123_IN3
PA4/SPI1_NSS/U2_CK/DCMI_HSYNC/OTG_HS_SOF/I2S3_WS/DAC1_OUT/ADC12_IN4
PA5/SPI1_SCK/OTG_HS_ULPI_CK/TIM2_CH1_ETR/TIM8_CH1N/DAC2_OUT/ADC12_IN5
PA6/SPI1_MISO/TIM1_BKIN/TIM3_CH1/TIM8_BKIN/TIM13_CH1/DCMI_PIXCLK/ADC12_IN6
PA7/SPI1_MOSI/TIM1_CH1N/TIM3_CH2/TIM8_CH1N/TIM14_CH1/ETH_MII_RX_DV/ETH_RMIL_CRS_DV/ADC12_IN7
PA8/TIM1_CH1/U1_CK/I2C3_SCL/MCO1/OTG_FS_SOF
PA9/TIM1_CH2/U1_TX/I2C3_SMBA/OTG_FS_VBUS/DCMI_D0
PA10/TIM1_CH3/U1_RX/OTG_FS_ID/DCMI_D1
PA11/TIM1_CH4/U1_CTS/CAN1_RX/OTG_FS_DM
PA12/TIM1_ETR/U1_RTS/CAN1_TX/OTG_FS_DP
PA13/JTMS_SWIDIO
PA14/JTCK_SWCLK
PA15/JTDI/SPI1_NSS/SPI3_NSS/TIM2_CH1_ETR/I2S3_WS

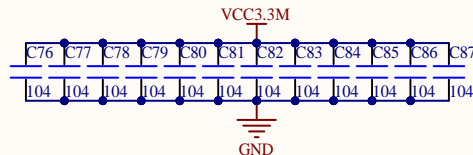
PB0/TIM1_CH2N/TIM3_CH3/TIM8_CH2N/OTG_HS_ULPI_D1/ETH_MII_RXD2/ADC12_IN8
PB1/TIM1_CH3N/TIM3_CH4/TIM8_CH3N/OTG_HS_INTN/ETH_MII_RXD3/ADC12_IN9
PB2/BOOT1
PB3/JTDO/TRACESWO/TIM2_CH2/SPI1_SCK/SPI3_SCK/I2S3_CK
PB4/INTRST/TIM3_CH1/SPI1_MISO/SPI3_MISO/I2S3ext_SD
PB5/TIM3_CH2/SPI1_MOSI/SPI3_MOSI/CAN2_RX/I2C1_SMBA/OTG_HS_ULPI_D7/ETH_PPS_OUT/DCMI_D10/I2S3_SD
PB6/TIM4_CH1/U1_TX/CAN2_TX/I2C1_SCL/DCMI_D5
PB7/TIM4_CH2/U1_RX/FSMC_NL/I2C1_SDA/DCMI_VSYNC
PB8/TIM4_CH3/TIM10_CH1/CAN1_RX/SDIO_D4/ETH_MII_TXD3/I2C1_SCL/DCMI_D6
PB9/TIM4_CH4/TIM11_CH1/CAN1_TX/SDIO_D5/SPI2_NSS/I2C1_SDA/DCMI_D7/I2S2_WS
PB10/SPI2_SCK/TIM2_CH3/U3_TX/I2C2_SCL/OTG_HS_ULPI_D3/I2S2_CK
PB11/TIM2_CH4/U3_RX/I2C2_SDA/HS_ULPI_D4/ETH_MII_TX_EN/ETH_RMIL_TX_EN
PB12/NSS/TIM1_BKIN/U3_CK/CAN2_RX/I2C2_SMBA/OTG_HS_ULPI_D5/OTG_HS_ID/ETH_MII_TXD0/ETH_RMIL_TXD0/I2S2_WS
PB13/SPI2_SCK/TIM1_CH1N/U3_CTS/CAN2_TX/OTG_HS_ULPI_D6/OTG_HS_VBUS/ETH_MII_TXD1/ETH_RMIL_TXD1/I2S2_CK
PB14/SPI2_MISO/TIM1_CH2N/TIM8_CH2N/TIM12_CH1/U3_RTS/OTG_HS_DM/I2S2ext_SD
PB15/SPI2_MOSI/TIM1_CH3N/TIM8_CH3N/TIM12_CH2/OTG_HS_DP/I2S2_SD

PC0/OTG_HS_ULPI_STP/ADC123_IN10
PC1/ETH_MDC/ADC123_IN11
PC2/SPI2_MISO/OTG_HS_ULPI_DIR/ETH_MII_TXD2/I2S2ext_SD/ADC123_IN12
PC3/SPI2_MOSI/OTG_HS_ULPI_NXT/ETH_MII_TX_CLK/I2S2_SD/ADC123_IN13
PC4/ETH_MII_RXD0/ETH_RMIL_RXD0/ADC12_IN14
PC5/ETH_MII_RXD1/ETH_RMIL_RXD1/ADC12_IN15
PC6/TIM3_CH1/TIM8_CH1/U6_TX/SDIO_D6/DCMI_D0/I2S2_MCK
PC7/TIM3_CH2/TIM8_CH2/U6_RX/SDIO_D7/DCMI_D1/I2S3_MCK
PC8/TIM3_CH3/TIM8_CH3/U6_CK/SDIO_D0/DCMI_D2
PC9/TIM3_CH4/TIM8_CH4/I2C3_SDA/SDIO_D1/DCMI_D3/MCO2/I2S_CKIN
PC10/SPI3_SCK/U3_TX/U4_TX/SDIO_D2/DCMI_D8/I2S3_CK
PC11/SPI3_MISO/U3_RX/U4_RX/SDIO_D3/DCMI_D4/I2S3ext_SD
PC12/SPI3_MOSI/U3_CK/U5_TX/SDIO_CK/DCMI_D9/I2S3_SD
PC13/RTC_AF1
PC14-OSC32_IN
PC15-OSC32_OUT

STM32F407ZGT6



R56/R57 是为了维修方便而增加的2个电阻,大家实际设计电路板时候,可以不加这两个电阻。VCC3.3M 直接连接3.3 V即可。



BOOT0

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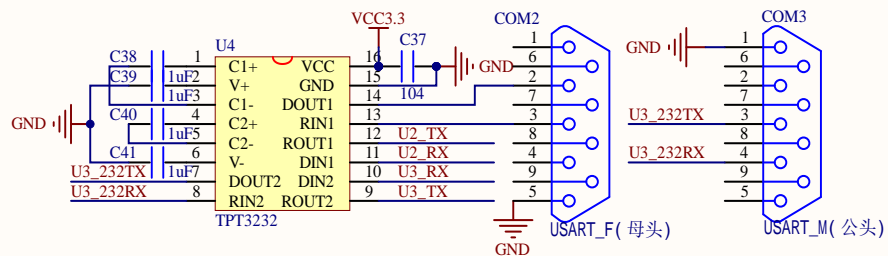
VSS

VSS

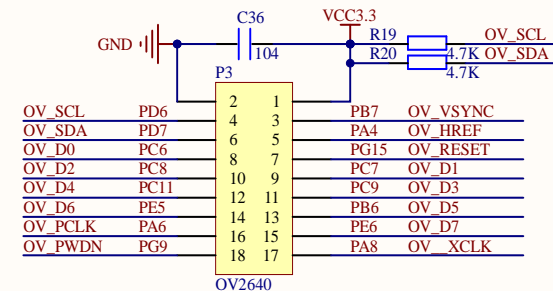
VSS

VSS

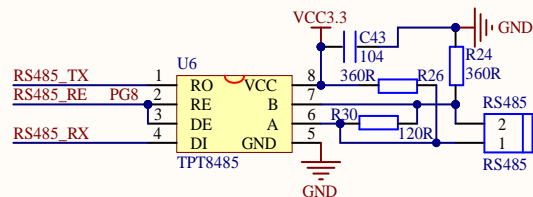
RS232



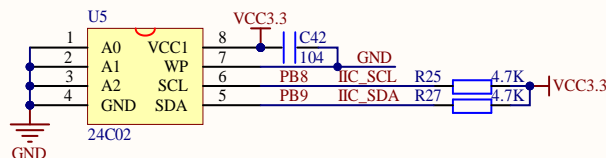
OLED&CAMERA



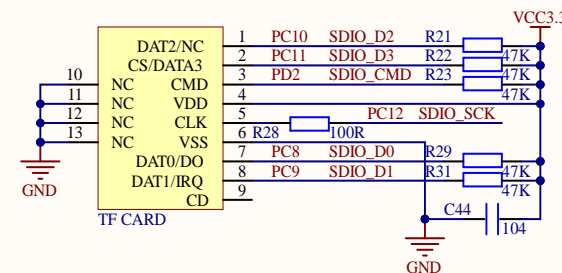
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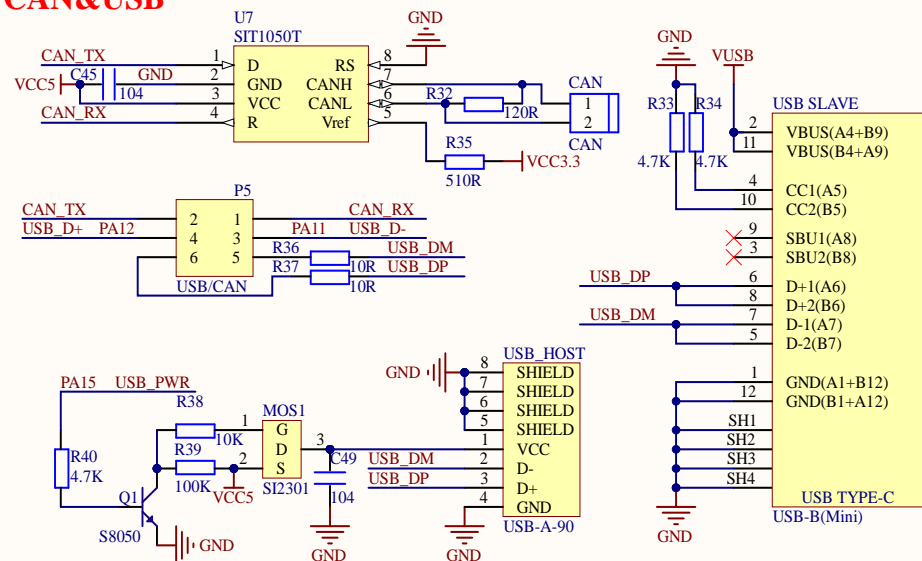
EEPROM



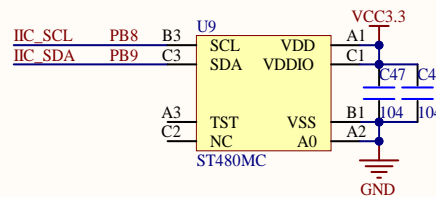
TF CARD



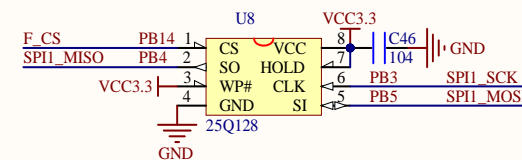
CAN&USB



3 AXIS MAGNETOMETER



FLASH



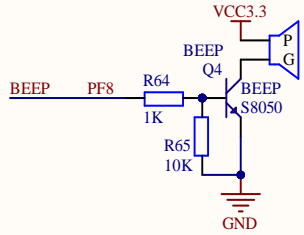
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Explorer STM32F407 Board
Author:
ATOM@ALIENTEK
Date:
2022/11/2
Revision:
V3.2

Size:
A4
File:
DEVICE1.SchDoc
Version:

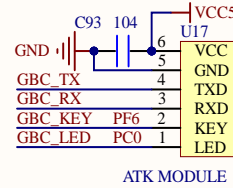


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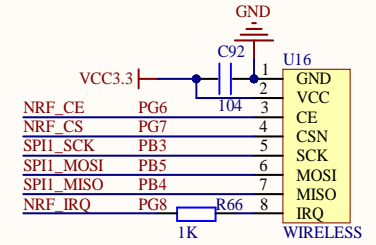
BEEP



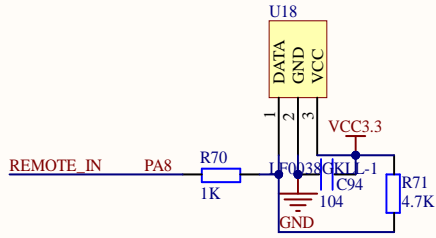
ATK MODULE



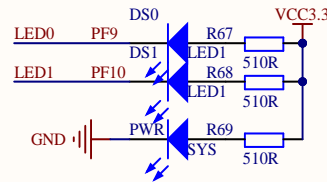
WIRELESS



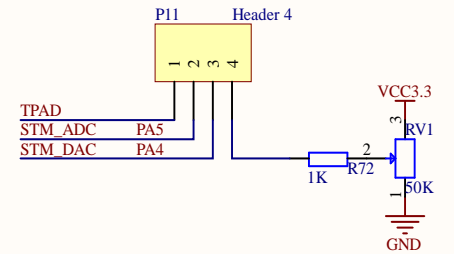
REMOTE



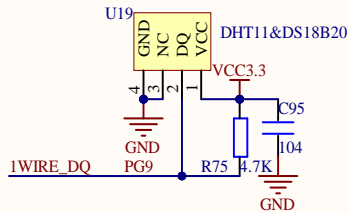
LED



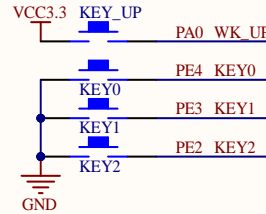
ADC&DAC



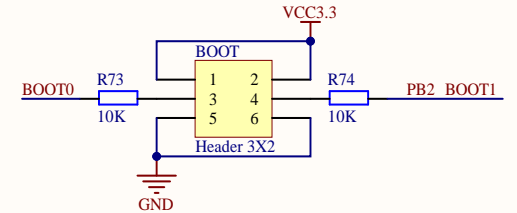
TEMP&HUMI SENSOR



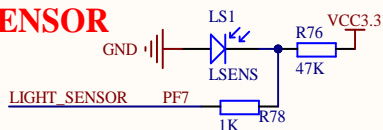
KEY



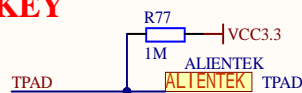
BOOT



LIGHT_SENSOR



TOUCH_KEY

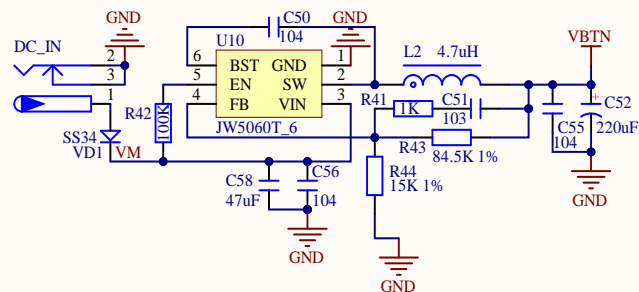


Title:
Explorer STM32F407 Board
Author:
ATOM@ALIENTEK
Date:
2022/11/2
Revision:
V3.2

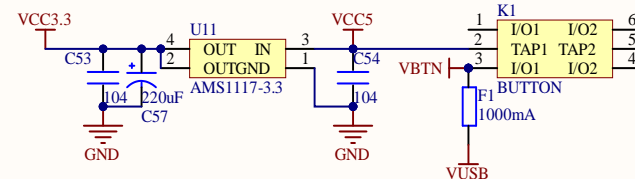
Size:
A4
File:
DEVICE2.SchDoc
Version:



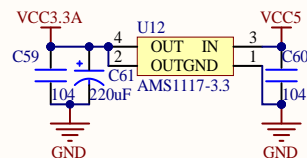
DC POWER IN



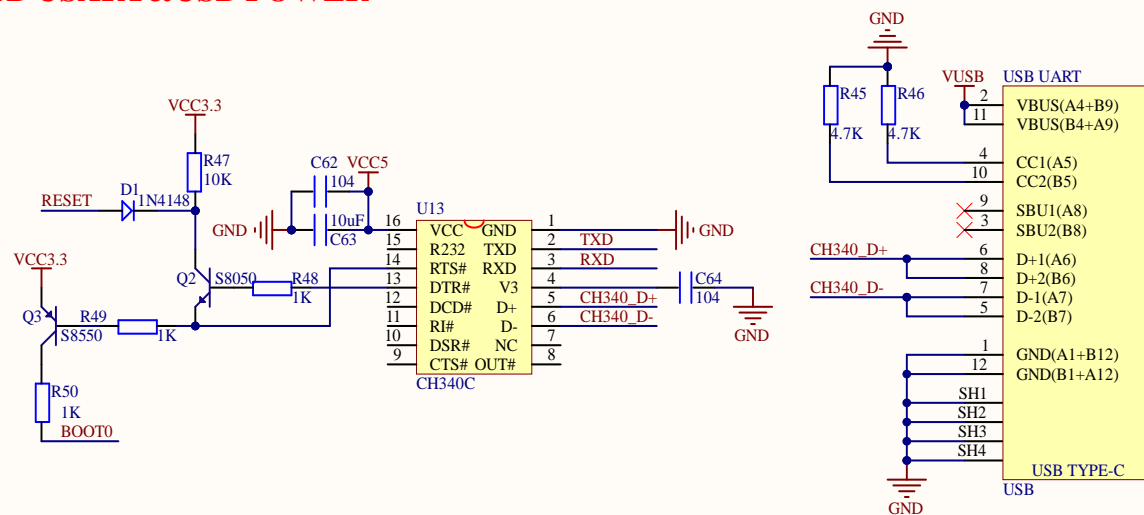
3.3V & POWER SWITCH



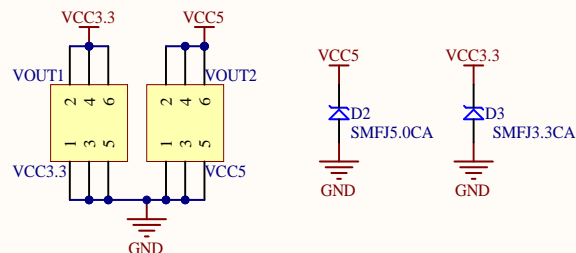
ANALOG POWER



USB USART&USB POWER



ON BOARD POWER SOURCE



Title:
Explorer STM32F407 Board
Author:
ATOM@ALIENTEK
Date:
2022/11/2
Revision:
V3.2

Size:
A4
File:
POWER&USB_USART.SchDoc
Version:



