

MCU_ABC

A

WK_UP	PA0	40	U1A
RMIREF CLK	PA1	41	PA0/WK_UP/TIM2 CH1/TIM2 ETR/TIM5 CH1/TIM8 ETR/U2 CTS/U4 TX/ETH MII CRS/ADC123 IN0
USART2 TX	ETH MDIO	PA2	PA1/TIM2 CH2/TIM5 CH2/U2 RTS/U4 RX/ETH MII RX CLK/ETH RMIREF_CLK/ADC123_IN1
USART2 RX	PWM DAC	PA3	PA2/TIM2 CH3/TIM5 CH3/TIM9 CH1/U2 TX/ETH MDIO/ADC123_IN2
GBC LED	STM DAC	PA4	PA3/TIM2 CH4/TIM5 CH4/TIM9 CH2/U2 RX/OTG HS ULPI_D0/ETH MII_COL/LCD_B5/ADC123_IN3
	STM ADC	PA4	PA4/SPI1 NSS/SPI3 NSS/I2S3 WS/U2 CK/OTG HS SOF/DCMI_HSYNC/LCD_VSYNC/ADC12_IN4/DAC_OUT1
	DCMI_PCLK	PA6	PA5/TIM2 CH1/TIM2 ETR/TIM8 CH1N/SPI1_SCK/OTG_HS_ULPI_CLK/ADC12_IN5/DAC_OUT2
	RMII CRS DV	PA7	PA6/TIM1 BKIN/TIM3 CH1/TIM8 BKIN/SPI1_MISO/TIM13 CH1/DCMI_PIXCLK/LCD_G2/ADC12_IN6
REMOTE IN	DCMI_XCLK	PA8	PA7/TIM1 CH1N/TIM3 CH2/TIM5 CH1N/SPI1_MOSI/TIM14 CH1/ETH_MII_RX_DV/ETH_RMII_CRS_DV/ADC12_IN7
	USART1 TX	PA9	PA8/MCO1/TIM1 CH1/I2C3 SCL/U1_CLK/OTG_FS_SOF/LCD_R6
	USART1 RX	PA10	PA9/TIM1 CH2/I2C3 SMBA/U1 TX/DCMI_D0/OTG_FS_VBUS
USB D-	PA11	122	PA10/TIM1 CH3/U1_RX/OTG_FS_ID/DCMI_D1
USB D+	PA12	123	PA11/TIM1_CH4/U1_CTS/CAN1_RX/LCD_R4/OTG_FS_DM
JTMS	PA13	124	PA12/TIM1_ETR/U1_RTS/CAN1_TX/LCD_R5/OTG_FS_DP
JTCK	PA14	137	PA13/JTMS/SWDIO
DCMI_RESET	JTDI	PA15	PA14/JTCK/SWDCLK
			PA15/JTDI/TIM2_CH1/TIM2_ETR/SPI1_NSS/SPI3_NSS/I2S3_WS

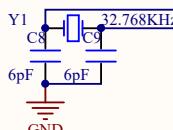
B

LED1	PB0	56	PB0/TIM1_CH2N/TIM3_CH3/TIM8_CH2N/LCD_R3/OTG_HS_ULPI_D1/ETH_MII_RXD2/ADC12_IN8
LED0	PB1	57	PB1/TIM1_CH3N/TIM3_CH4/TIM8_CH3N/LCD_R6/OTG_HS_ULPI_D2/ETH_MII_RXD3/ADC12_IN9
BOOT1	PB2	58	PB2/BOOT1
DCMI_SDA	JTDO	PB3	PB3/JTDO/TIM2_CH2/SPI1_SCK/SPI3_SCK/I2S3_CK
DCMI_SCL	JTRST	PB4	PB4/NJTRST/TIM3_CH1/SPI1_MISO/SPI3_MISO/I2S3ext_SD
LCD_BL	PB5	163	PB5/TIM3_CH2/I2C1_SMBA/U1_MOSI/SPI3_MOSI/I2S3_SD/CAN2_RX/OTG_HS_ULPI_D7/ETH_PPS_OUT/FMC_SDCKE1/DCMI_D10
		PB6	PB6/TIM4_CH1/I2C1_SCL/U1_RX/FMC_SDNE1/DCMI_D5
DCMI_VSYNC	PB7	165	PB7/TIM4_CH2/I2C1_SDA/U1_RX/FMC_NL/DCMI_VSYNC
DCMI_D6	PB8	167	PB8/TIM4_CH3/TIM10_CH1/I2C1_SCL/CAN1_RX/ETH_MII_TXD3/SDIO_D4/DCMI_D6/LCD_B6
DCMI_D7	PB9	168	PB9/TIM4_CH4/TIM11_CH1/I2C1_SDA/SPI2_NSS/I2S2_WS/CAN1_TX/SDIO_D5/DCMI_D7/LCD_B7
USART3_TX	PB10	79	PB10/TIM2_CH3/I2C2_SCL/SPI2_SCK/I2S2_CK/U3_RX/OTG_HS_ULPI_D3/ETH_MII_RX_ER/LCD_G4
USART3_RX	RMII_TX_EN	PB11	PB11/TIM2_CH4/I2C2_SDA/U3_RX/OTG_HS_ULPI_D4/ETH_MII_TX_EN/ETH_RMII_RX_EN/LCD_G5
IWIRE_DQ	IIC_INT	PB12	PB12/TIM1_BKIN/I2C2_SMBA/SPI2_NSS/I2S2_WS/U3_CK/CAN2_RX/OTG_HS_ULPI_D5/ETH_MII_TXD0/ETH_RMII_TXD0/OTG_HS_ID
SPI2_SCK	PB13	93	PB13/TIM1_CH1N/SPI2_SCK/I2S2_CK/U3_CTS/CAN2_RX/OTG_HS_ULPI_D6/ETH_MII_TXD1/ETH_RMII_TXD1/OTG_HS_VBUS
SPI2_MISO	PB14	94	PB14/TIM1_CH2N/TIM8_CH2N/SPI2_MISO/I2S2ext_SD/U3_RTS/TIM12_CH1/OTG_HS_DM
SPI2_MOSI	PB15	95	PB15/RTC_REFIN/TIM1_CH3N/TIM8_CH3N/SPI2_MOSI/I2S2_SD/TIM12_CH2/OTG_HS_DP

C

FMC_SDNWE	PC0	32	PC0/OTG_HS_ULPI_STP/FMC_SDNWE/ADC123_IN10
ETH_MDC	PC1	33	PC1/ETH_MDC/ADC123_IN11
FMC_SDNE0	PC2	34	PC2/SPI2_MISO/I2S2ext_SD/OTG_HS_ULPI_DIR/ETH_MII_TXD2/FMC_SDNE0/ADC123_IN12
FMC_SDCKE0	PC3	35	PC3/SPI2_MOSI/I2S2_SD/OTG_HS_ULPI_NXT/ETH_MII_TX_CLK/FMC_SDCKE0/ADC123_IN13
RMII_RXD0	PC4	54	PC4/ETH_MII_RXD0/ETH_RMII_RXD0/ADC12_IN14
RMII_RXD1	PC5	55	PC5/ETH_MII_RXD1/ETH_RMII_RXD1/ADC12_IN15
DCMI_D0	PC6	115	PC6/TIM3_CH1/TIM8_CH1/I2S2_MCK/U6_RX/SDIO_D6/DCMI_D0/LCD_HSYNC
DCMI_D1	PC7	116	PC7/TIM3_CH2/TIM8_CH2/I2S3_MCK/U6_RX/SDIO_D7/DCMI_D1/LCD_G6
SDIO_D0	DCMI_D2	PC8	PC8/TIM3_CH3/TIM8_CH3/U6_CLK/SDIO_D0/DCMI_D2
SDIO_D1	DCMI_D3	PC9	PC9/MCO2/TIM3_CH4/TIM8_CH4/I2C3_SDA/J2S_CKIN/SDIO_D1/DCMI_D3
SDIO_D2		PC10	PC10/SPI3_SCK/I2S3_CK/U3_RX/U4_TX/SDIO_D2/DCMI_D8/LCD_R2
SDIO_D3	DCMI_D4	PC11	PC11/I2S3ext_SD/SPI3_MISO/U3_RX/U4_RX/SDIO_D3/DCMI_D4
SDIO_SCK		PC12	PC12/SPI3_MOSI/I2S3_SD/U3_CK/U5_TX/SDIO_CLK/DCMI_D9
KEY2		PC13	PC13/TAMP_1
			PC14/OSC32_IN
		10	PC15/OSC32_OUT

D



Title:	Apollo STM32F429 CoreBoard CORE ABC
Author:	ATOM@ALIENTEK
Size:	SheetSize
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File:	STM32F429_CORE_ABC.SchDoc
Revision:	V2.0
Version:	Version
Version:	Version



正点原子

MOTHER BOARD CON

主板接口，由2个2*30P的3710M端子（公）组成，
可插在正点原子阿波罗STM32F4/F7主板上面。

GND	J1	30 31	BOOT0
VBAT		29 32	PG14
PC13		28 33	PG13
PB9		27 34	PG10
PB8		26 35	PD7
PB7		25 36	PD3
PB6		24 37	PD2
PB5		23 38	PC12
PB4		22 39	PC11
PB3		21 40	PC10
PE2		20 41	PA15
PE3		19 42	PA14
PE4		18 43	PA13
PE5		17 44	PA3
PE6		16 45	PA4
PI11		15 46	PA5
PF6		14 47	PA6
PF7		13 48	PA7
PF8		12 49	PC4
PF9		11 50	PC5
RESET		10 51	PA9
PC1		9 52	PA10
PH4		8 53	PA11
PH5		7 54	PA12
PH3		6 55	PB2
PH2		5 56	PB0
PA2		4 57	PB1
PA1		3 58	VCC5
VREF+		2 59	VCC5
GND		1 60	VCC5

3710M06004G3FT01

PH13	J2	30 31	GND
PH14		29 32	PI2
PH15		28 33	PI1
PD6		27 34	PI0
PD4		26 35	PG11
PG12		25 36	PI4
PH12		24 37	PI5
PD11		23 38	PI6
PD5		22 39	PI7
PD12		21 40	PI8
PA8		20 41	PI3
PC9		19 42	PA0
PC8		18 43	PE0
PC7		17 44	PE1
PC6		16 45	PD14
PG6		15 46	PD15
PD13		14 47	PD0
PG3		13 48	PD1
PH11		12 49	PE7
PH10		11 50	PE8
PH9		10 51	PE9
PH7		9 52	PE10
PH6		8 53	PE11
PB15		7 54	PE12
PB14		6 55	PE13
PB13		5 56	PE14
PB12		4 57	PE15
PH8		3 58	PD8
PB10		2 59	PD9
PB11		1 60	PD10

3710M06004G3FT01

MCU_DEF

U1B	
FMC_D2	PD0 142
FMC_D3	PD1 143
SDIO_CMD	PD2 144
DCMI_D5	PD3 145
FMC_NOE	PD4 146
FMC_NWE	PD5 147
FMC_NWAIT	PD6 150
FMC_NE1	PD7 151
FMC_D13	PD8 96
FMC_D14	PD9 97
FMC_D15	PD10 98
FMC_A16_CLE	PD11 99
FMC_A17_ALE	PD12 100
FMC_A18	PD13 101
FMC_D0	PD14 104
FMC_D1	PD15 105
FMC_NBL0	PE0 169
FMC_NBL1	PE1 170
SAI1_MCLKA	PE2 1
SAI1_SDB	PE3 2
SAI1_FSA	PE4 3
SAI1_SCKA	PE5 4
SAI1_SDA	PE6 5
FMC_D4	PE7 68
FMC_D5	PE8 69
FMC_D6	PE9 70
FMC_D7	PE10 73
FMC_D8	PE11 74
FMC_D9	PE12 75
FMC_D10	PE13 76
FMC_D11	PE14 77
FMC_D12	PE15 78
FMC_A0	PF0 16
FMC_A1	PF1 17
FMC_A2	PF2 18
FMC_A3	PF3 19
FMC_A4	PF4 20
FMC_A5	PF5 21
F_CS	PF6 24
SPI5_SCK	PF7 25
SPI5_MISO	PF8 26
SPI5_MOSI	PF9 27
LCD_DE	PF10 28
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FMC_A6	PF12 60
FMC_A7	PF13 63
FMC_A8	PF14 64
FMC_A9	PF15 65

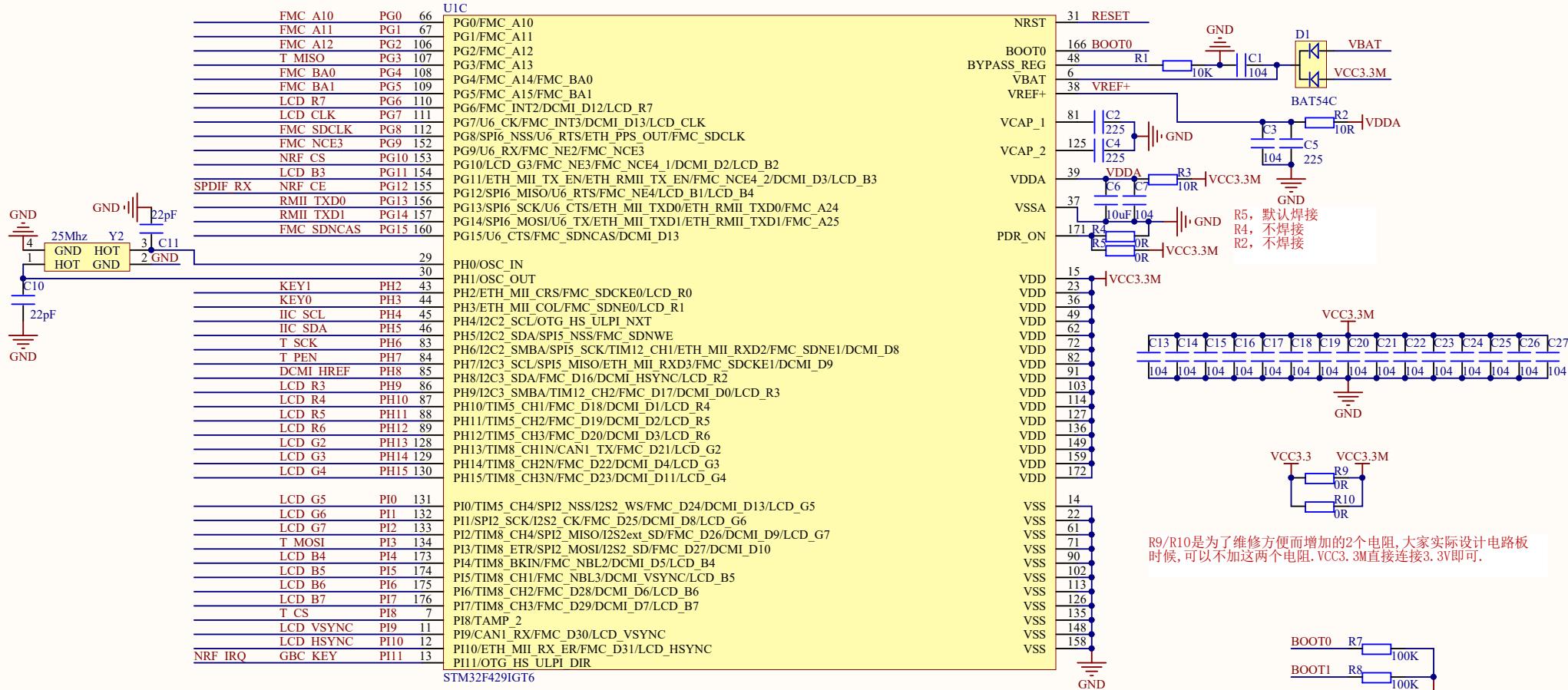
STM32F429IGT6

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Author:	ATOM@ALIENTEK
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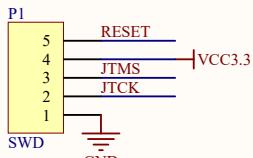


正点原子

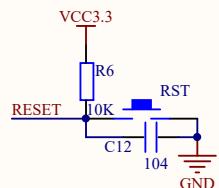
MCU_GHI



SWD



RESET



Title: Apollo STM32F429 CoreBoard CORE GHI
 Author: ATOM@ALIENTEK
 Date: 2022/10/8
 Revision: V2.0



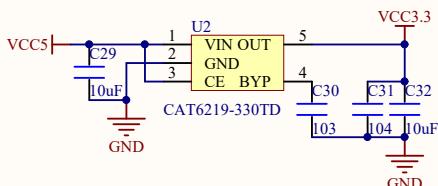
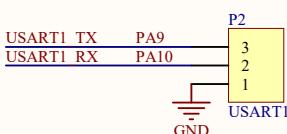
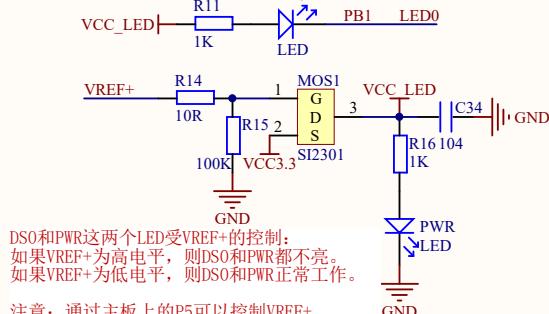
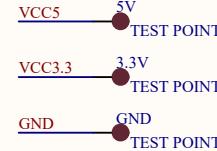
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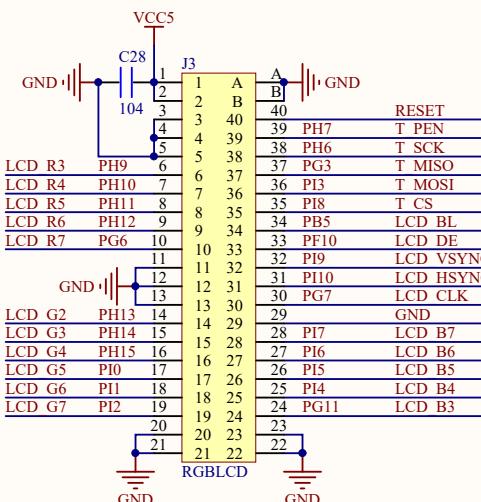
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3

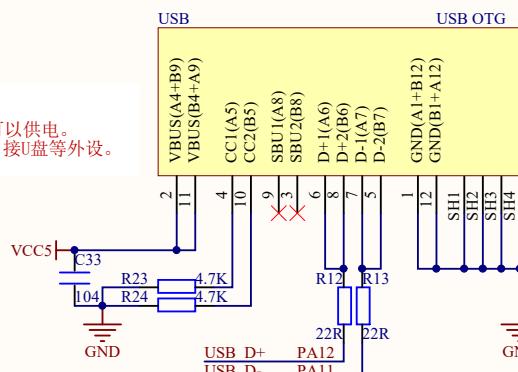
4

LDO**USART1****KEY****LED****TEST POINT**

这是三个电源电压测试点。可用来测试核心板的电源是否正常。也可以用来给核心板供电：焊接GND和5V，然后接外部5V电压即可。

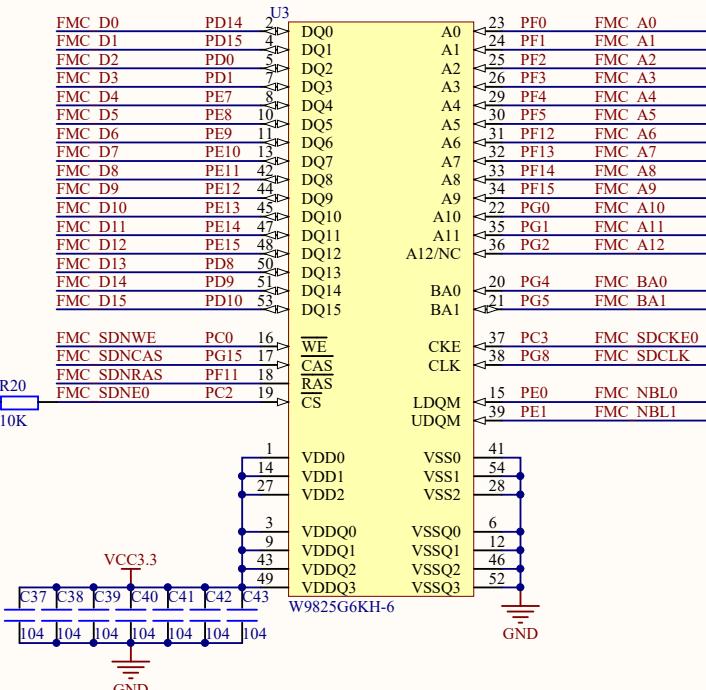
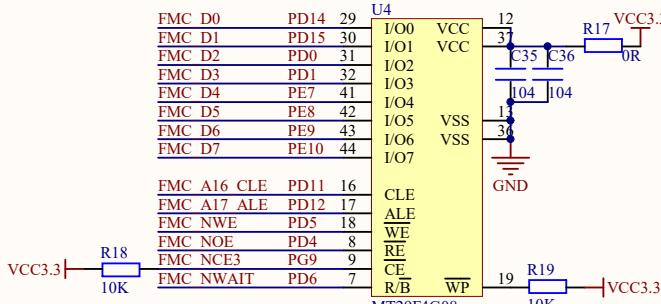
RGB LCD**Type-C USB**

此USB接口有如下功能：
1, 单独使用核心板时，可给核心板供电。
2, 可做USB Slave接口，连接电脑，同时也可以供电。
3, 可做USB Host接口（需Type C转OTG线），接U盘等外设。



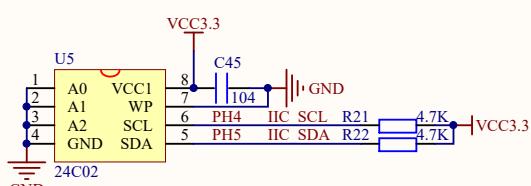
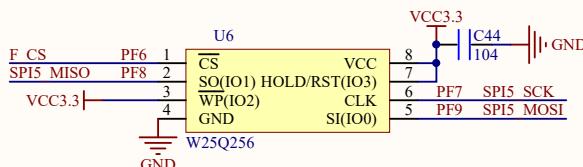
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Author: ATOM@ALIENTEK	Date: 2022/10/8
Revision: V2.0	File: STM32F429 LCD&POWER.SchDoc
Version: Version	Version: Version


正点原子

SDRAM**NAND FLASH**

B

A

EEPROM**SPI FLASH**

B

C

D

Title: Apollo STM32F429 CoreBoard MEMORY	Size: SheetSize
Author: ATOM@ALIENTEK	Date: 2022/10/8
Revision: V2.0	File: STM32F429 MEMORY.SchDoc
Version: Version	Version: Version



正点原子

