

U?A			
WK_UP	PA0	PA0/WK_UP/TIM2_CH1/TIM2_ETR/TIM5_CH1/TIM8_ETR/U2_CTS/U4_TX/ETH_MII CRS/ADC123_IN0	
RMII_REF_CLK	PA1	PA1/TIM2_CH2/TIM5_CH2/U2_RTS/U4_RX/ETH_MII_RX_CLK/ETH_RMII_REF_CLK/ADC123_IN1	
USART2_TX	ETH_MDIO	PA2/TIM2_CH3/TIM5_CH3/TIM9_CH1/U2_TX/ETH_MDIO/ADC123_IN2	
USART2_RX	PWM_DAC	PA3/TIM2_CH4/TIM5_CH4/TIM9_CH2/U2_RX/OTG_HS_ULPI_D0/ETH_MII_COL/LCD_B5/ADC123_IN3	
GBC_LED	STM_DAC	PA4/SPI1_NSS/SPI3_NSS/I2S3_WS/U2_CK/OTG_HS_SOF/DCMI_HSYNC/LCD_VSYNC/ADC12_IN4/DAC_OUT1	
	STM_ADC	PA5/TIM2_CH1/TIM2_ETR/TIM8_CH1N/SPI1_SCK/OTG_HS_ULPI_CK/ADC12_IN5/DAC_OUT2	
	DCMI_PCLK	PA6/TIM1_BKIN/TIM3_CH1/TIM8_BKIN/SPI1_MISO/TIM13_CH1/DCMI_PIXCLK/LCD_G2/ADC12_IN6	
	RMII CRS_DV	PA7/TIM1_CH1N/TIM3_CH2/TIM8_CH1N/SPI1_MOSI/TIM14_CH1/ETH_MII_RX_DV/ETH_RMII_CRS_DV/ADC12_IN7	
REMOTE_IN	DCMI_XCLK	PA8/MCO1/TIM1_CH1/I2C3_SCL/U1_CK/OTG_FS_SOF/LCD_R6	
USART1_TX	PA9	PA9/TIM1_CH2/I2C3_SMB A/U1_TX/DCMI_D0/OTG_FS_VBUS	
USART1_RX	PA10	PA10/TIM1_CH3/U1_RX/OTG_FS_ID/DCMI_D1	
USB_D-	PA11	PA11/TIM1_CH4/U1_CTS/CAN1_RX/LCD_R4/OTG_FS_DM	
USB_D+	PA12	PA12/TIM1_ETR/U1_RTS/CAN1_TX/LCD_R5/OTG_FS_DP	
JTMS	PA13	PA13/JTMS/SWDIO	
JTCK	PA14	PA14/JTCK/SWDCLK	
DCMI_RESET	JTDI	PA15/JTDI/TIM2_CH1/TIM2_ETR/SPI1_NSS/SPI3_NSS/I2S3_WS	
LED1	PB0	PB0/TIM1_CH2N/TIM3_CH3/TIM8_CH2N/LCD_R3/OTG_HS_ULPI_D1/ETH_MII_RXD2/ADC12_IN8	
LED0	PB1	PB1/TIM1_CH3N/TIM3_CH4/TIM8_CH3N/LCD_R6/OTG_HS_ULPI_D2/ETH_MII_RXD3/ADC12_IN9	
BOOT1	PB2	PB2/BOOT1	
DCMI_SDA	JTDO	PB3/JTDO/TIM2_CH2/SPI1_SCK/SPI3_SCK/I2S3_CK	
DCMI_SCL	JTRST	PB4/NJTRST/TIM3_CH1/SPI1_MISO/SPI3_MISO/I2S3ext_SD	
	LCD_BL	PB5/TIM3_CH2/I2C1_SMB A/SPI1_MOSI/SPI3_MOSI/I2S3_SD/CAN2_RX/OTG_HS_ULPI_D7/ETH_PPS_OUT/FMC_SDCKE1/DCMI_D10	
		PB6/TIM4_CH1/I2C1_SCL/U1_TX/CAN2_TX/FMC_SDNE1/DCMI_D5	
		PB7/TIM4_CH2/I2C1_SDA/U1_RX/FMC_NL/DCMI_VSYNC	
		PB8/TIM4_CH3/TIM10_CH1/I2C1_SCL/CAN1_RX/ETH_MII_TXD3/SDIO_D4/DCMI_D6/LCD_B6	
		PB9/TIM4_CH4/TIM11_CH1/I2C1_SDA/SPI2_NSS/I2S2_WS/CAN1_TX/SDIO_D5/DCMI_D7/LCD_B7	
USART3_TX		PB10/TIM2_CH3/I2C2_SCL/SPI2_SCK/I2S2_CK/U3_TX/OTG_HS_ULPI_D3/ETH_MII_RX_ER/LCD_G4	
USART3_RX	RMII_TX_EN	PB11/TIM2_CH4/I2C2_SDA/U3_RX/OTG_HS_ULPI_D4/ETH_MII_TX_EN/ETH_RMII_TX_EN/LCD_G5	
IWIRE_DQ	IIC_INT	PB12/TIM1_BKIN/I2C2_SMB A/SPI2_NSS/I2S2_WS/U3_CK/CAN2_RX/OTG_HS_ULPI_D5/ETH_MII_TXD0/ETH_RMII_TXD0/OTG_HS_ID	
	SPI2_SCK	PB13/TIM1_CH1N/SPI2_SCK/I2S2_CK/U3_CTS/CAN2_TX/OTG_HS_ULPI_D6/ETH_MII_TXD1/ETH_RMII_TXD1/OTG_HS_VBUS	
	SPI2_MISO	PB14/TIM1_CH2N/TIM8_CH2N/SPI2_MISO/I2S2ext_SD/U3_RTS/TIM12_CH1/OTG_HS_DM	
	SPI2_MOSI	PB15/RTC_REFIN/TIM1_CH3N/TIM8_CH3N/SPI2_MOSI/I2S2_SD/TIM12_CH2/OTG_HS_DP	
FMC_SDNWE	PC0	PC0/OTG_HS_ULPI_STP/FMC_SDNWE/ADC123_IN10	
ETH_MDC	PC1	PC1/ETH_MDC/ADC123_IN11	
FMC_SDNE0	PC2	PC2/SPI2_MISO/I2S2ext_SD/OTG_HS_ULPI_DIR/ETH_MII_TXD2/FMC_SDNE0/ADC123_IN12	
FMC_SDCKE0	PC3	PC3/SPI2_MOSI/I2S2_SD/OTG_HS_ULPI_NXT/ETH_MII_TX_CLK/FMC_SDCKE0/ADC123_IN13	
RMII_RXD0	PC4	PC4/ETH_MII_RXD0/ETH_RMII_RXD0/ADC12_IN14	
RMII_RXD1	PC5	PC5/ETH_MII_RXD1/ETH_RMII_RXD1/ADC12_IN15	
DCMI_D0	PC6	PC6/TIM3_CH1/TIM8_CH1/I2S2_MCK/U6_TX/SDIO_D6/DCMI_D0/LCD_HSYNC	
DCMI_D1	PC7	PC7/TIM3_CH2/TIM8_CH2/I2S3_MCK/U6_RX/SDIO_D7/DCMI_D1/LCD_G6	
SDIO_D0	DCMI_D2	PC8/TIM3_CH3/TIM8_CH3/U6_CK/SDIO_D0/DCMI_D2	
SDIO_D1	DCMI_D3	PC9/MCO2/TIM3_CH4/TIM8_CH4/I2C3_SDA/I2S_CKIN/SDIO_D1/DCMI_D3	
SDIO_D2		PC10/SPI3_SCK/I2S3_CK/U3_TX/U4_TX/SDIO_D2/DCMI_D8/LCD_R2	
SDIO_D3	DCMI_D4	PC11/I2S3ext_SD/SPI3_MISO/U3_RX/U4_RX/SDIO_D3/DCMI_D4	
SDIO_SCK		PC12/SPI3_MOSI/I2S3_SD/U3_CK/U5_TX/SDIO_CK/DCMI_D9	
	KEY2	PC13/TAMP_1	
		PC14/OSC32_IN	
		PC15/OSC32_OUT	

STM32F429IGT6

Title		
Size	Number	Revision
A4		
Date:	2026/2/17	Sheet of
File:	D:\work\F429_CORE\main.SchDoc	Drawn By:

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。

MCU_DEF

GND	J?	BOOT0
VBAT	30	PG14
PC13	29	PG13
PB9	28	PG10
PB8	27	PD7
PB7	26	PD3
PB6	25	PD2
PB5	24	PC12
PB4	23	PC11
PB3	22	PC10
PE2	21	PA15
PE3	20	PA14
PE4	19	PA13
PE5	18	PA3
PE6	17	PA4
PI11	16	PA5
PF6	15	PA6
PF7	14	PA7
PF8	13	PC4
PF9	12	PC5
RESET	11	PA9
PC1	10	PA10
PH4	9	PA11
PH5	8	PA12
PH3	7	PB2
PH2	6	PB0
PA2	5	PB1
PA1	4	VCC5
VREF+	3	VCC5
GND	2	VCC5
	1	

3710M060046G3FT01

PH13	J?	GND
PH14	30	PI2
PH15	29	PI1
PD6	28	PI0
PD4	27	PG11
PG12	26	PI4
PH12	25	PI5
PD11	24	PI6
PD5	23	P7
PD12	22	PI8
PA8	21	PI3
PC9	20	PA0
PC8	19	PE0
PC7	18	PE1
PC6	17	PD14
PG6	16	PD15
PD13	15	PD0
PG3	14	PD1
PH11	13	PE7
PH10	12	PE8
PH9	11	PE9
PH7	10	PE10
PH6	9	PE11
PB15	8	PE12
PB14	7	PE13
PB13	6	PE14
PB12	5	PE15
PH8	4	PD8
PB10	3	PD9
PB11	2	PD10
	1	

3710M060046G3FT01

FMC_D2	PD0
FMC_D3	PD1
SDIO_CMD	PD2
DCMI_D5	PD3
FMC_NOE	PD4
FMC_NWE	PD5
FMC_NWAIT	PD6
FMC_NE1	PD7
FMC_D13	PD8
FMC_D14	PD9
FMC_D15	PD10
FMC_A16_CLE	PD11
FMC_A17_ALE	PD12
FMC_A18	PD13
FMC_D0	PD14
FMC_D1	PD15
FMC_NBL0	PE0
FMC_NBL1	PE1
SAI1_MCLKA	PE2
SAI1_SDB	PE3
SAI1_FSA	PE4
SAI1_SCKA	PE5
SAI1_SDA	PE6
FMC_D4	PE7
FMC_D5	PE8
FMC_D6	PE9
FMC_D7	PE10
FMC_D8	PE11
FMC_D9	PE12
FMC_D10	PE13
FMC_D11	PE14
FMC_D12	PE15
FMC_A0	PF0
FMC_A1	PF1
FMC_A2	PF2
FMC_A3	PF3
FMC_A4	PF4
FMC_A5	PF5
F_CS	PF6
SPI5_SCK	PF7
SPI5_MISO	PF8
SPI5_MOSI	PF9
LCD_DE	PF10
FMC_SDNRAS	PF11
FMC_A6	PF12
FMC_A7	PF13
FMC_A8	PF14
FMC_A9	PF15

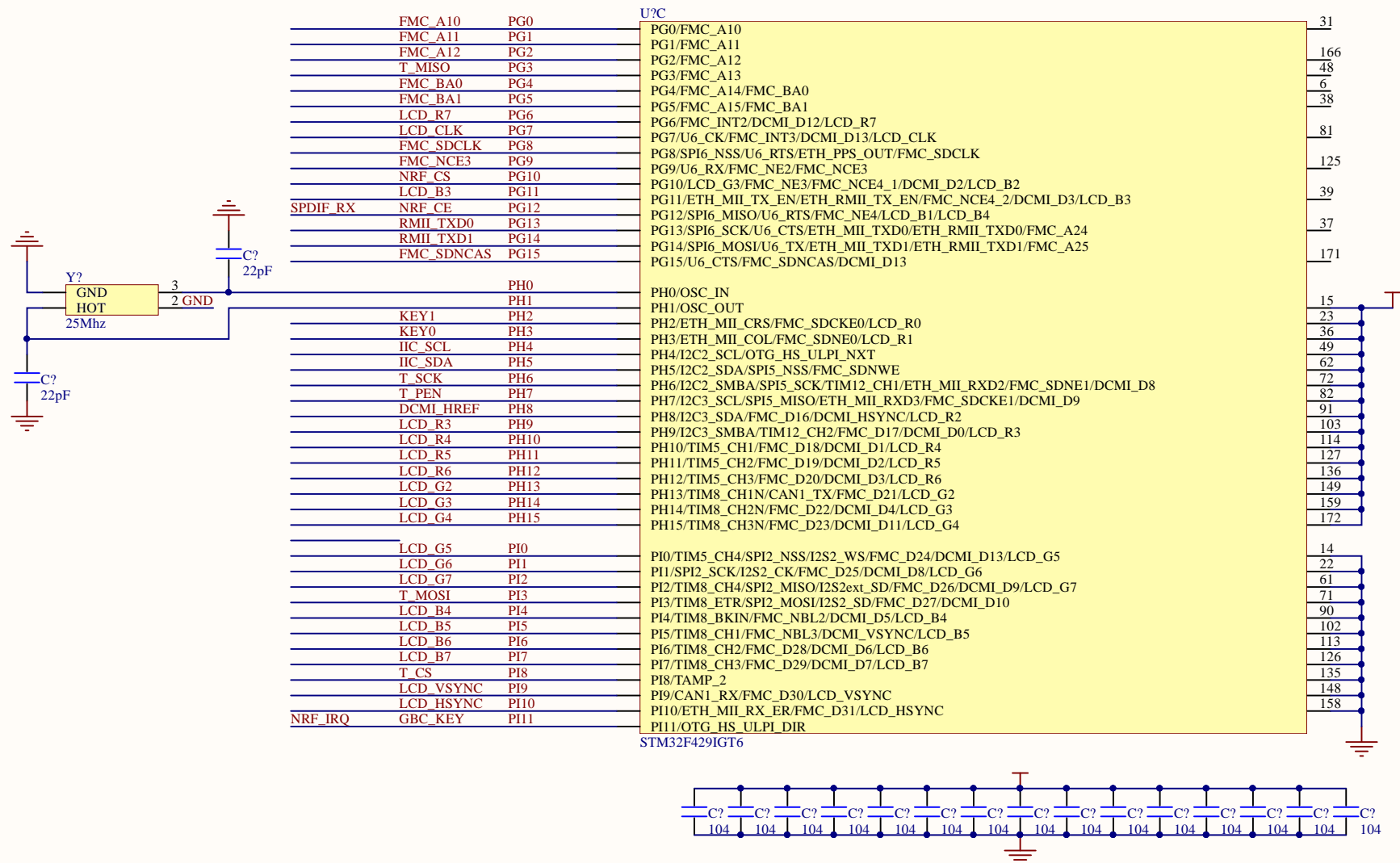
U?B

PD0/CAN1_RX/FMC_D2
PD1/CAN1_TX/FMC_D3
PD2/TIM3_ETR/U5_RX/SDIO_CMD/DCMI_D11
PD3/SPI2_SCK/I2S2_CK/U2_CTS/FMC_CLK/DCMI_D5/LCD_G7
PD4/U2_RTS/FMC_NOE
PD5/U2_TX/FMC_NWE
PD6/SPI3_MOSI/I2S3_SD/SAI1_SD_A/U2_RX/FMC_NWAIT/DCMI_D10/LCD_B2
PD7/U2_CK/FMC_NE1/FMC_NCE2
PD8/U3_TX/FMC_D13
PD9/U3_RX/FMC_D14
PD10/U3_CK/FMC_D15/LCD_B3
PD11/U3_CTS/FMC_A16
PD12/TIM4_CH1/U3_RTS/FMC_A17
PD13/TIM4_CH2/FMC_A18
PD14/TIM4_CH3/FMC_D0
PD15/TIM4_CH4/FMC_D1
PE0/TIM4_ETR/U8_RX/FMC_NBL0/DCMI_D2
PE1/U8_TX/FMC_NBL1/DCMI_D3
PE2/SPI4_SCK/SAI1_MCLK_A/ETH_MII_TXD3/FMC_A23
PE3/SAI1_SD_B/FMC_A19
PE4/SPI4_NSS/SAI1_FS_A/FMC_A20/DCMI_D4/LCD_B0
PE5/TIM9_CH1/SPI4_MISO/SAI1_SCK_A/FMC_A21/DCMI_D6/LCD_G0
PE6/TIM9_CH2/SPI4_MOSI/SAI1_SD_A/FMC_A22/DCMI_D7/LCD_G1
PE7/TIM1_ETR/U7_RX/FMC_D4
PE8/TIM1_CH1N/U7_TX/FMC_D5
PE9/TIM1_CH1/FMC_D6
PE10/TIM1_CH2N/FMC_D7
PE11/TIM1_CH2/SPI4_NSS/FMC_D8/LCD_G3
PE12/TIM1_CH3N/SPI4_SCK/FMC_D9/LCD_B4
PE13/TIM1_CH3/SPI4_MISO/FMC_D10/LCD_DE
PE14/TIM1_CH4/SPI4_MOSI/FMC_D11/LCD_CLK
PE15/TIM1_BKIN/FMC_D12/LCD_R7
PF0/I2C2_SDA/FMC_A0
PF1/I2C2_SCL/FMC_A1
PF2/I2C2_SMB_A/FMC_A2
PF3/FMC_A3/ADC3_IN9
PF4/FMC_A4/ADC3_IN14
PF5/FMC_A5/ADC3_IN15
PF6/TIM10_CH1/SPI5_NSS/SAI1_SD_B/U7_RX/FMC_NIORD/ADC3_IN4
PF7/TIM11_CH1/SPI5_SCK/SAI1_MCLK_B/U7_TX/FMC_NREG/ADC3_IN5
PF8/TIM13_CH1/SPI5_MISO/SAI1_SCK_B/FMC_NIOWR/ADC3_IN6
PF9/TIM14_CH1/SPI5_MOSI/SAI1_FS_B/FMC_CD/ADC3_IN7
PF10/FMC_INTR/DCMI_D11/LCD_DE/ADC3_IN8
PF11/SPI5_MOSI/FMC_SDNRAS/DCMI_D12
PF12/FMC_A6
PF13/FMC_A7
PF14/FMC_A8
PF15/FMC_A9

STM32F429IGT6

Title		
Size	Number	Revision
A4		
Date:	2026/2/17	Sheet of
File:	D:\work\F429_CORE\main-2.SchDoc	Drawn By:

MCU_GHI



R9/R10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3.3V即可.

Title		
Size A4	Number	Revision
Date:	2026/2/17	Sheet of
File:	D:\work\F429_CORE\main-3_SchDoc	Drawn By: