



WK_UP	PA0	U7A
RMII_REF_CLR	PA1	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_RMII_REF_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 PA5	PA4/SPI1_NSS/SPI3_NSS/I2S3_WS/U2_CK/OTG_HS_SOF/DCM1_HSYNC/LCD_VSYNC/ADC12_IN4/DAC_OUT1
	DCMI_PCLK PA6	PA5/TIM2_CH1/TIM2_ETR/TIM8_CH1/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/DCM1_PIXCLK/LCD_G2/ADC12_IN6
REMOTE_IN	DCMI_XCLK PA8	PA7/TIM1_CH1N/TIM3_CH2/TIM8_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_CK/OTG_FS_SOF/LCD_R6
	USART1_RX PA10	PA9/TIM1_CH2/I2C3_SMBA/U1_TX/DCM1_D0/OTG_FS_VBUS
	USB_D- PA11	PA10/TIM1_CH3/U1_RX/OTG_FS_ID/DCM1_D1
	USB_D+ PA12	PA11/TIM1_CH4/U1_CTS/CAN1_RX/LCD_R4/OTG_FS_DM
	JTMS PA13	PA12/TIM1_ETR/U1_RTS/CAN1_TX/LCD_R5/OTG_FS_DP
	JTCK PA14	PA13/JTMS/SWDIO
	DCMI_RESET JTDI PA15	PA14/JTCK/SWDCLK
		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	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	PB5/TIM3_CH2/I2C1_SMBA/SPI1_MOSI/SPI3_MOSI/I2S3_SD/CAN2_RX/OTG_HS_ULPI_D7/ETH_PPS_OUT/FMC_SDCKE1/DCM1_D10
	PB6	PB6/TIM4_CH1/I2C1_SCL/U1_TX/CAN2_TX/FMC_SDNE1/DCM1_D5
	DCMI_VSYNC PB7	PB7/TIM4_CH2/I2C1_SDA/U1_RX/FMC_NL/DCM1_VSYNC
	DCMI_D6 PB8	PB8/TIM4_CH3/TIM10_CH1/I2C1_SCL/CAN1_RX/ETH_MII_TXD3/SDIO_D4/DCM1_D6/LCD_B6
	DCMI_D7 PB9	PB9/TIM4_CH4/TIM11_CH1/I2C1_SDA/SPI2_NSS/I2S2_WS/CAN1_TX/SDIO_D5/DCM1_D7/LCD_B7
USART3_TX	PB10	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	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	PB12/TIM1_BKIN/I2C2_SMBA/SPI2_NSS/I2S2_WS/U3_CK/CAN2_RX/OTG_HS_ULPI_D5/ETH_MII_TXD0/ETH_RMII_RXD0/OTG_HS_ID
	SPI2_SCK PB13	PB13/TIM1_CH1N/SPI2_SCK/I2S2_CK/U3_CTS/CAN2_TX/OTG_HS_ULPI_D6/ETH_MII_TXD1/ETH_RMII_RXD1/OTG_HS_VBUS
	SPI2_MISO PB14	PB14/TIM1_CH2N/TIM8_CH2N/SPI2_MISO/I2S2ext_SD/U3_RTS/TIM12_CH1/OTG_HS_DM
	SPI2_MOSI PB15	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/DCM1_D0/LCD_HSYNC
DCMI_D1	PC7	PC7/TIM3_CH2/TIM8_CH2/I2S3_MCK/U6_RX/SDIO_D7/DCM1_D1/LCD_G6
SDIO_D0	DCMI_D2 PC8	PC8/TIM3_CH3/TIM8_CH3/U6_CK/SDIO_D0/DCM1_D2
SDIO_D1	DCMI_D3 PC9	PC9/MCO2/TIM3_CH4/TIM8_CH4/I2C3_SDA/I2S_CKIN/SDIO_D1/DCM1_D3
SDIO_D2	PC10	PC10/SPI3_SCK/I2S3_CK/U3_TX/U4_RX/SDIO_D2/DCM1_D8/LCD_R2
SDIO_D3	DCMI_D4 PC11	PC11/I2S3ext_SD/SPI3_MISO/U3_RX/U4_RX/SDIO_D3/DCM1_D4
SDIO_SCK	PC12	PC12/SPI3_MOSI/I2S3_SD/U3_CK/U5_TX/SDIO_CLK/DCM1_D9
	KEY2 PC13	PC13/TAMP_1
	PC14	PC14/OSC32_IN
	PC15	PC15/OSC32_OUT

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MOTHER BOARD CON

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

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	J?	GND
PH13	30	PI2
PH14	29	PI1
PH15	28	PI0
PD6	27	PG11
PD4	26	PI4
PG12	25	PI5
PH12	24	PI6
PD11	23	P7
PD5	22	PI8
PD12	21	PI3
PA8	20	PA0
PC9	19	PE0
PC8	18	PE1
PC7	17	PD14
PC6	16	PD15
PG6	15	PD0
PD13	14	PD1
PG3	13	PE7
PH11	12	PE8
PH10	11	PE9
PH9	10	PE10
PH7	9	PE11
PH6	8	PE12
PB15	7	PE13
PB14	6	PE14
PB13	5	PE15
PB12	4	PD8
PB8	3	PD9
PB10	2	PD10
PB11	1	PD1

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MCU_DEF

FMC_D2	PD0	PD0/CAN1_RX/FMC_D2
FMC_D3	PD1	PD1/CAN1_TX/FMC_D3
SDIO_CMD	PD2	PD2/TIM3_ETR/U5_RX/SDIO_CMD/DCMI_D11
DCMI_D5	PD3	PD3/SPI2_SCK/I2S2_CK/U2_CTS/FMC_CLK/DCMI_D5/LCD_G7
FMC_NOE	PD4	PD4/U2_RTS/FMC_NOE
FMC_NWE	PD5	PD5/U2_TX/FMC_NWE
FMC_NWAIT	PD6	PD6/SPI3_MOSI/I2S3_SD/SAI1_SD_A/U2_RX/FMC_NWAIT/DCMI_D10/LCD_B2
FMC_NE1	PD7	PD7/U2_CK/FMC_NE1/FMC_NCE2
FMC_D13	PD8	PD8/U3_TX/FMC_D13
FMC_D14	PD9	PD9/U3_RX/FMC_D14
FMC_D15	PD10	PD10/U3_CK/FMC_D15/LCD_B3
FMC_A16_CLE	PD11	PD11/U3_CTS/FMC_A16
FMC_A17_ALE	PD12	PD12/TIM4_CH1/U3_RTS/FMC_A17
FMC_A18	PD13	PD13/TIM4_CH2/FMC_A18
FMC_D0	PD14	PD14/TIM4_CH3/FMC_D0
FMC_D1	PD15	PD15/TIM4_CH4/FMC_D1
FMC_NBL0	PE0	PE0/TIM4_ETR/U8_RX/FMC_NBL0/DCMI_D2
FMC_NBL1	PE1	PE1/U8_TX/FMC_NBL1/DCMI_D3
SAI1_MCLK_A	PE2	PE2/SPI4_SCK/SAI1_MCLK_A/ETH_MII_TXD3/FMC_A23
SAI1_SDB	PE3	PE3/SAI1_SD_B/FMC_A19
SAI1_FSA	PE4	PE4/SPI4 NSS/SAI1_FS_A/FMC_A20/DCMI_D4/LCD_B0
SAI1_SCKA	PE5	PE5/TIM9_CH1/SPI4_MISO/SAI1_SCK_A/FMC_A21/DCMI_D6/LCD_G0
SAI1_SDA	PE6	PE6/TIM9_CH2/SPI4_MOSI/SAI1_SD_A/FMC_A22/DCMI_D7/LCD_G1
FMC_D4	PE7	PE7/TIM1_ETR/U7_RX/FMC_D4
FMC_D5	PE8	PE8/TIM1_CH1N/U7_TX/FMC_D5
FMC_D6	PE9	PE9/TIM1_CH1/FMC_D6
FMC_D7	PE10	PE10/TIM1_CH2N/FMC_D7
FMC_D8	PE11	PE11/TIM1_CH2/SPI4_NSS/FMC_D8/LCD_G3
FMC_D9	PE12	PE12/TIM1_CH3N/SPI4_MISO/FMC_D10/LCD_DE
FMC_D10	PE13	PE13/TIM1_CH3/SPI4_MOSI/FMC_D11/LCD_CLK
FMC_D11	PE14	PE14/TIM1_CH4/SPI4_MOSI/FMC_D11/LCD_CLK
FMC_D12	PE15	PE15/TIM1_BKIN/FMC_D12/LCD_R7
FMC_A0	PF0	PF0/I2C2_SDA/FMC_A0
FMC_A1	PF1	PF1/I2C2_SCL/FMC_A1
FMC_A2	PF2	PF2/I2C2_SMBAL/FMC_A2
FMC_A3	PF3	PF3/FMC_A3/ADC3_IN9
FMC_A4	PF4	PF4/FMC_A4/ADC3_IN14
FMC_A5	PF5	PF5/FMC_A5/ADC3_IN15
F_CS	PF6	PF6/TIM10_CH1/SPI5_NSS/SAI1_SD_B/U7_RX/FMC_NIORD/ADC3_IN4
SPI5_SCK	PF7	PF7/TIM11_CH1/SPI5_SCK/SAI1_MCLK_B/U7_TX/FMC_NREG/ADC3_IN5
SPI5_MISO	PF8	PF8/TIM13_CH1/SPI5_MISO/SAI1_SCK_B/FMC_NIOWR/ADC3_IN6
SPI5_MOSI	PF9	PF9/TIM14_CH1/SPI5_MOSI/SAI1_FS_B/FMC_CD/ADC3_IN7
LCD_DE	PF10	PF10/FMC_INTR/DCMI_D11/LCD_DE/ADC3_IN8
FMC_SDNRAS	PF11	PF11/SPI5_MOSI/FMC_SDNRAS/DCMI_D12
FMC_A6	PF12	PF12/FMC_A6
FMC_A7	PF13	PF13/FMC_A7
FMC_A8	PF14	PF14/FMC_A8
FMC_A9	PF15	PF15/FMC_A9

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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。

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