



PORT	AF0 SYS	AF1 TIM1	TIM2	AF2 TIM3	TIM4	TIM5	AF3 TIM9	TIM10	TIM11	AF4 I2C1	I2C2	I2C3	AF5 SPI1	SPI2	SPI4	AF6 SPI3	SPI4	SPI5	AF7 USART1	USART2	AF8 USART6	AF9 I2C2	I2C3	AF10 OTG	FS	AF12 SDIO	ADC	配置			
PA	0	MCO1	CH1 / ETR	CH1 CH2	CH1 CH2	CH1 CH2							NSS SCK MISO MOSI		MOSI				CTS RTS TX RX CK							CMD	ADC1_IN0 ADC1_IN1 ADC1_IN2 ADC1_IN3 ADC1_IN4 ADC1_IN5 ADC1_IN6 ADC1_IN7	X	SEN_INTB		
	1		CH2																									X	SEN_INTM		
	2		CH3																									O	GPIO1		
	3		CH4																									O	GPIO2		
	4	CH1 / ETR BKIN CH1N CH1 CH2 CH3 CH4 ETR							SCL SMBA	NSS		NSS			MISO	MOSI MISO	CK TX RX CTS RTS		TX RX						SOFT VBUS ID DM DP	D1 D2			X	SEN_CSM	
	5																												X	SEN_SCK	
	6																												X	SEN_SDO	
	7																												X	SEN_SDI	
	8																												X	KEY	
	9																												X	USB_VBUS	
	10																												X	USB_ID	
	11																												X	USB_DM	
	12	X	USB_DP																												
	13	SDIO																									O	SWDIO			
	14	SCLK																											O	SWCLK	
15	JTDI	CH1 / ETR										NSS		NSS				TX										O	D_CS		
PB	0	BOOT JTDO JTRST	CH2N CH3N	CH3 CH4	CH1 CH2 CH1 CH2 CH3 CH4								SCK MISO MOSI		SCK MISO MOSI				RX TX RX							D0 D3 D0 D4 D5 D7	ADC1_IN8 ADC1_IN9	X	SEN_CSB		
	1																											O	GPIO3		
	2																											O	GPIO4		
	3		CH2																									O	D_SCK		
	4																											O	D_SDI		
	5																											O	GPIO5		
	6																											O	GPIO6		
	7																											O	D_IRQ		
	8																											O	D_RST		
	9																											O	GPIO11		
	10	CH3																													
	12	RTC	BKIN										NSS SCK MISO MOSI		NSS SCK		SCK										D6 CK			O	GPIO7
	13		CH1N																											O	GPIO8
	14		CH2N																											O	GPIO9
	15		CH3N																											O	GPIO10
PC	13																												X	LED_G	
	14																												X	LED_R	
	15																												X	LED_B	

DMA1								
	Stream 0	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5	Stream 6	Stream 7
Channel 0	SPI3_RX	I2C1_TX	SPI3_RX	SPI2_RX	SPI2_TX	SPI3_TX		SPI3_TX
Channel 1	I2C1_RX	I2C3_RX				I2C1_RX	I2C1_TX	I2C1_TX
Channel 2	TIM4_CH1		I2S3_EXT_RX	TIM4_CH2	I2S2_EXT_TX	I2S3_EXT_TX	TIM4_UP	TIM4_CH3
Channel 3	I2S3_EXT_RX	TIM2_CH3 TIM2_UP	I2C3_RX	I2S2_EXT_RX	I2C3_TX	TIM2_CH1	TIM2_CH2 TIM2_CH4	TIM2_CH4 TIM2_UP
Channel 4						USART2_RX	USART2_TX	
Channel 5			TIM3_CH4 TIM3_UP		TIM3_CH1 TIM3_TRIG	TIM3_CH2		TIM3_CH3
Channel 6	TIM5_CH3 TIM5_UP	TIM5_CH4 TIM5_TRIG	TIM5_CH1	TIM5_CH4 TIM5_TRIG	TIM5_CH2	I2C3_TX	TIM5_UP	USART2_RX
Channel 7			I2C2_RX	I2C2_RX				I2C2_TX

DMA2								
	Stream 0	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5	Stream 6	Stream 7
Channel 0	ADC1				ADC1		TIM1_CH1 / CH2 / CH3	
Channel 1								
Channel 2			SPI1_TX	SPI5_RX	SPI5_TX			
Channel 3	SPI1_RX		SPI1_RX	SPI1_TX		SPI1_TX		
Channel 4	SPI4_RX	SPI4_TX	USART1_RX	SDIO	SPI4_RX	USART1_RX	SDIO	USART1_TX
Channel 5		USART6_RX	USART6_RX	SPI4_RX	SPI4_TX	SPI5_TX	USART6_TX	USART6_TX
Channel 6	TIM1_TRIG	TIM1_CH1	TIM1_CH2	TIM1_CH1	TIM1_CH4 TIM1_TRIG / COM	TIM1_UP	TIM1_CH3	
Channel 7						SPI5_RX	SPI5_TX	