-	5 V	Function Used	Main function	STM32 F4 Discovery Problem	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5	Alternative 6	Alternative 7	Alternative 8	Alternative 9	Alternative 10	Additiona
I/O I/O	OK OK	_	PE2 PE3		TRACECLK TRACED0	FSMC_A23 FSMC_A19	ETH_MII_TXD3								
1/0	OK		PE4		TRACED1	FSMC_A20	DCMI_D4								
I/O I/O	OK OK		PE5 PE6		TRACED2 TRACED3	FSMC_A21 FSMC_A22	TIM9_CH1 TIM9_CH2	DCMI_D6							
S	OK.	RS232_SWITCH Vbat	Vbat		TRACEDS	FSIVIO_AZZ	TIM9_CH2	DCMI_D7							
1/0	OK		PC13												RTC_AF
I/O I/O	OK OK		PC14-OSC32_IN PC15- OSC32_OUT												OSC32_0
S		Vss_5	Vss_5												_
S I/O	OK	Vdd_5 PH0-OSC_IN	Vdd_5 PH0-OSC_IN												OSC_II
1/0			PH1-OSC_OUT												OSC_O
1/0	014	NRST	NRST		070 110 111 01 070										AD0400
I/O I/O	OK OK	=	PC0 PC1		OTG_HS_ULPI_STP ETH_MDC										ADC123_ ADC123_
I/O	OK		PC2			OTG_HS_ULPI_DIR		I2S2ext_SD							ADC123_
I/O S	OK	I2C2_PULLUP Vdd	PC3 Vdd		SPI2_MOSI	I2S2_SD	OTG_HS_ULPI_NXT	ETH_MII_TX_CLK							ADC123_
S		Vss_a	Vss_a												
S		Vref_+	Vref_+												
S I/O	OK	Vdd_a UART4_TX	Vdd_a PA0-WKUP		USART2_CTS	UART4_TX	ETH_MII_CRS	TIM2_CH1_ETR	TIM5_CH1	TIM8_ETR					ADC123
I/O		_	PA1		USART2_RTS	UART4_RX	ETH_RMII_REF_CLK			TIMM2_CH2					ADC123
I/O I/O	OK OK		PA2 PA3		USART2_TX USART2_RX	TIM5_CH3 TIM5_CH4	TIM9_CH1 TIM9_CH2	TIM2_CH3 TIM2_CH4	ETH_MDIO OTG_HS_ULPI_D0	ETH MILCOL					ADC123_ ADC123_
S	OK	USART2_RX Vss_4	Vss_4		OSANTZ_NA	111110_0114	111019_0112	111012_0114	OTA_HS_OLFI_DO	ETH_MII_COL					ADC 123_
S I/O		Vdd_4	Vdd_4												
I/O		SPI1_NSS SPI1_SCK	PA4 PA5		SPI1_NSS SPI1_SCK	SPI3_NSS OTG_HS_ULPI_CK	USART2_CK TIM2_CH1_ETR	DCMI_HSYNC TIM8_CHIN	OTG_HS_SOF	I2S3_WS					ADC12_ ADC12_
I/O			PA6		SPI1_MISO	TIM8_BKIN	TIM13_CH1	DCMI_PIXCLK	TIM3_CH1	TIM1_BKIN					ADC12_
1/0	OK		PA7		SPI1_MOSI	TIM8_CH1N	TIM14_CH1	TIM3_CH2	ETH_MII_RX_DV	TIM1_CH1N	RMII_CRS_DV				ADC12
I/O			PC4 PC5		ETH_RMII_RX_D0 ETH_RMII_RX_D1	ETH_MII_RX_D0 ETH_MII_RX_D1									ADC12_ ADC12_
I/O	OK	LED3	PB0		TIM3_CH3	TIM8_CH2N	OTG_HS_ULPI_D1	ETH_MII_RXD2	TIM1_CH2N						ADC12_
I/O I/O			PB1 PB2-BOOT1		TIM3_CH4	TIM8_CH3N	OTG_HS_ULPI_D2	ETH_MII_RXD3	TIM1_CH3N						ADC12
1/0			PE7		FSMC_D4	TIM1_ETR									
1/0	OK	_	PE8		FSMC_D5	TIM1_CH1N									
1/0	OK OK	_	PE9 PE10		FSMC_D6 FSMC_D7	TIM1_CH1 TIM1_CH2N									
I/O	OK	_	PE11		FSMC_D8	TIM1_CH2									
1/0	OK	_	PE12 PE13		FSMC_D9	TIM1_CH3N									
I/O I/O	OK OK	_	PE13		FSMC_D10 FSMC_D11	TIM1_CH3 TIM1_CH4									
I/O	OK	FSMC_D12	PE15		FSMC_D12	TIM1_BKIN									
I/O I/O	OK OK		PB10 PB11		SPI2_SCK I2C2_SDA	I2S2_CK USART3_RX	I2C2_SCL OTG_HS_ULPI_D4		OTG_HS_ULPI_D3		TIM2_CH3				
S	OIX.	Vcap_1	Vcap_1		1202_05/(00/1110_10/	014_116_6211_61	LTTT_TIVIII_TX_LIV	LTTI_WIII_TX_LIV	111012_0111					
S	OK	Vdd_1	Vdd_1		ODIO NOO	1000 14/0	IOOO ONADA	LICARTO OV	TIMA DIZINI	OANO DV				OTO HO ID	
I/O I/O	OK OK	= 1.1	PB12 PB13		SPI2_NSS SPI2_SCK	I2S2_WS I2S2_CK	I2C2_SMBA USART3_CTS	USART3_CK TIM1_CH1N	TIM1_BKIN CAN2_TX	CAN2_RX OTG_HS_ULPI_D6	OTG_HS_ULPI_D5 ETH_RMII_TXD1			OTG_HS_ID	OTG_HS_\
I/O	OK	SPI2_MISO	PB14					OTO HE DM		TIM8_CH2N/	I2S2ext_SD				
					SPI2_MISO	TIM1_CH2N	TIM12_CH1	OTG_HS_DM	USART3_RTS		12026XL_0D				
1/0	OK	_	PB15		SPI2_MOSI	12S2_SD	TIM12_CH1 TIM1_CH3N	TIM8_CH3N	TIM12_CH2	OTG_HS_DP	12026X1_0D				
I/O I/O	OK OK	FSMC_D13	PB15 PD8 PD9								IZOZEKI_OD				
I/O I/O I/O	OK OK	FSMC_D13 FSMC_D14 FSMC_D15	PD8 PD9 PD10		SPI2_MOSI FSMC_D13 FSMC_D14 FSMC_D15	USART3_TX USART3_RX/ USART3_CK/	TIM1_CH3N				IZOZEKI_OD				
I/O I/O	OK OK	FSMC_D13 FSMC_D14 FSMC_D15 LCD_WAIT	PD8 PD9 PD10 PD11		SPI2_MOSI FSMC_D13 FSMC_D14 FSMC_D15 FSMC_CLE	USART3_TX USART3_RX/ USART3_CK/ FSMC_A16	TIM1_CH3N USART3_CTS	TIM8_CH3N			IZOZEKI_OD				
1/O 1/O 1/O 1/O	OK OK OK OK OK	FSMC_D13 FSMC_D14 FSMC_D15 LCD_WAIT LCD_INT FSMC_A18	PD8 PD9 PD10 PD11 PD12 PD13		SPI2_MOSI FSMC_D13 FSMC_D14 FSMC_D15 FSMC_CLE FSMC_ALE FSMC_A18	USART3_TX USART3_RX/ USART3_CK/ FSMC_A16 FSMC_A17 TIM4_CH2	TIM1_CH3N				IZOZEKI_OD				
1/O 1/O 1/O 1/O 1/O 1/O	OK OK OK OK OK	FSMC_D13 FSMC_D14 FSMC_D15 LCD_WAIT LCD_INT FSMC_A18 FSMC_D0	PD8 PD9 PD10 PD11 PD12 PD13 PD14		SPI2_MOSI FSMC_D13 FSMC_D14 FSMC_D15 FSMC_CLE FSMC_ALE FSMC_A18 FSMC_D0	USART3_TX USART3_RX/ USART3_CK/ FSMC_A16 FSMC_A17 TIM4_CH2 TIM4_CH3	TIM1_CH3N USART3_CTS	TIM8_CH3N			IZOZEKI_OD				
1/O 1/O 1/O 1/O 1/O	OK OK OK OK OK	FSMC_D13 FSMC_D14 FSMC_D15 LCD_WAIT LCD_INT FSMC_A18 FSMC_D0 FSMC_D1	PD8 PD9 PD10 PD11 PD12 PD13		SPI2_MOSI FSMC_D13 FSMC_D14 FSMC_D15 FSMC_CLE FSMC_ALE FSMC_A18	USART3_TX USART3_RX/ USART3_CK/ FSMC_A16 FSMC_A17 TIM4_CH2	TIM1_CH3N USART3_CTS	TIM8_CH3N							
1/O 1/O 1/O 1/O 1/O 1/O 1/O 1/O	OK OK OK OK OK OK OK	FSMC_D13 FSMC_D14 FSMC_D15 LCD_WAIT LCD_INT FSMC_A18 FSMC_D0 FSMC_D1 USART6_TX USART6_RX	PD8 PD9 PD10 PD11 PD12 PD13 PD14 PD15 PC6 PC7		SPI2_MOSI FSMC_D13 FSMC_D14 FSMC_D15 FSMC_CLE FSMC_ALE FSMC_A18 FSMC_D0 FSMC_D1 I2S2_MCK I2S3_MCK	USART3_TX USART3_RX/ USART3_CK/ FSMC_A16 FSMC_A17 TIM4_CH2 TIM4_CH3 TIM4_CH4 TIM8_CH1 TIM8_CH2	USART3_CTS TIM4_CH1 SDIO_D6 SDIO_D7	USART3_RTS USART6_TX USART6_RX	DCMI_D0 DCMI_D1	OTG_HS_DP					
1/O 1/O 1/O 1/O 1/O 1/O 1/O	OK OK OK OK OK OK OK OK OK	FSMC_D13 FSMC_D14 FSMC_D15 LCD_WAIT LCD_INT FSMC_A18 FSMC_D0 FSMC_D1 USART6_TX USART6_RX SDIO_D0	PD8 PD9 PD10 PD11 PD12 PD13 PD14 PD15 PC6		SPI2_MOSI FSMC_D13 FSMC_D14 FSMC_D15 FSMC_CLE FSMC_ALE FSMC_A18 FSMC_D0 FSMC_D1 I2S2_MCK I2S3_MCK TIM8_CH3	USART3_TX USART3_RX/ USART3_CK/ FSMC_A16 FSMC_A17 TIM4_CH2 TIM4_CH3 TIM4_CH4 TIM8_CH1 TIM8_CH2 SDIO_D0	USART3_CTS TIM4_CH1 SDIO_D6 SDIO_D7 TIM3_CH3	USART3_RTS USART6_TX USART6_RX USART6_CK	DCMI_D0 DCMI_D1 DCMI_D2	TIM3_CH1 TIM3_CH2					
I/O	OK	FSMC_D13 FSMC_D14 FSMC_D15 LCD_WAIT LCD_INT FSMC_A18 FSMC_D0 FSMC_D1 USART6_TX USART6_RX SDIO_D0 SDIO_D1 I2C2_PWR_MEASURE	PD8 PD9 PD10 PD11 PD12 PD13 PD14 PD15 PC6 PC7 PC8 PC9 PA8		SPI2_MOSI FSMC_D13 FSMC_D14 FSMC_D15 FSMC_CLE FSMC_ALE FSMC_A18 FSMC_D0 FSMC_D1 I2S2_MCK I2S3_MCK TIM8_CH3 I2S_CKIN MCO1	USART3_TX USART3_RX/ USART3_CK/ FSMC_A16 FSMC_A17 TIM4_CH2 TIM4_CH3 TIM4_CH4 TIM8_CH1 TIM8_CH1 TIM8_CH2 SDIO_D0 MCO2 USART1_CK	USART3_CTS TIM4_CH1 SDIO_D6 SDIO_D7 TIM3_CH3 TIM8_CH4 TIM1_CH1	USART3_RTS USART6_TX USART6_RX	DCMI_D0 DCMI_D1	OTG_HS_DP	TIM3_CH4				
I/O	OK	FSMC_D13 FSMC_D14 FSMC_D15 LCD_WAIT LCD_INT FSMC_A18 FSMC_D0 FSMC_D1 USART6_TX USART6_RX SDIO_D0 SDIO_D1 I2C2_PWR_MEASURE USART1_TX	PD8 PD9 PD10 PD11 PD12 PD13 PD14 PD15 PC6 PC7 PC8 PC9 PA8 PA9		SPI2_MOSI FSMC_D13 FSMC_D14 FSMC_D15 FSMC_CLE FSMC_ALE FSMC_A18 FSMC_D0 FSMC_D1 I2S2_MCK I2S3_MCK TIM8_CH3 I2S_CKIN MCO1 USART1_TX	USART3_TX USART3_RX/ USART3_CK/ FSMC_A16 FSMC_A17 TIM4_CH2 TIM4_CH3 TIM4_CH4 TIM8_CH1 TIM8_CH1 TIM8_CH2 SDIO_D0 MCO2 USART1_CK TIM1_CH2	USART3_CTS USART3_CTS TIM4_CH1 SDIO_D6 SDIO_D7 TIM3_CH3 TIM8_CH4 TIM1_CH1 I2C3_SMBA	USART3_RTS USART6_TX USART6_RX USART6_CK SDIO_D1 12C3_SCL DCMI_D0	DCMI_D0 DCMI_D1 DCMI_D2 I2C3_SDA	TIM3_CH1 TIM3_CH2					OTG_FS_
I/O	OK	FSMC_D13 FSMC_D14 FSMC_D15 LCD_WAIT LCD_INT FSMC_A18 FSMC_D0 FSMC_D1 USART6_TX USART6_TX SDIO_D0 SDIO_D1 I2C2_PWR_MEASURE USART1_TX USART1_RX	PD8 PD9 PD10 PD11 PD12 PD13 PD14 PD15 PC6 PC7 PC8 PC9 PA8		SPI2_MOSI FSMC_D13 FSMC_D14 FSMC_D15 FSMC_CLE FSMC_ALE FSMC_A18 FSMC_D0 FSMC_D1 I2S2_MCK I2S3_MCK TIM8_CH3 I2S_CKIN MCO1	USART3_TX USART3_RX/ USART3_CK/ FSMC_A16 FSMC_A17 TIM4_CH2 TIM4_CH3 TIM4_CH4 TIM8_CH1 TIM8_CH1 TIM8_CH2 SDIO_D0 MCO2 USART1_CK	USART3_CTS TIM4_CH1 SDIO_D6 SDIO_D7 TIM3_CH3 TIM8_CH4 TIM1_CH1	USART3_RTS USART6_TX USART6_RX USART6_CK SDIO_D1 12C3_SCL	DCMI_D0 DCMI_D1 DCMI_D2 I2C3_SDA	TIM3_CH1 TIM3_CH2					OTG_FS_
I/O	OK	FSMC_D13 FSMC_D14 FSMC_D15 LCD_WAIT LCD_INT FSMC_A18 FSMC_D0 FSMC_D1 USART6_TX USART6_TX USART6_RX SDIO_D0 SDIO_D1 I2C2_PWR_MEASURE USART1_TX USART1_TX USART1_RX CAN1_RX CAN1_TX	PD8 PD9 PD10 PD11 PD12 PD13 PD14 PD15 PC6 PC7 PC8 PC9 PA8 PA9 PA10 PA11 PA12		SPI2_MOSI FSMC_D13 FSMC_D14 FSMC_D15 FSMC_CLE FSMC_ALE FSMC_A18 FSMC_D0 FSMC_D1 I2S2_MCK I2S3_MCK TIM8_CH3 I2S_CKIN MCO1 USART1_TX USART1_RX USART1_RX USART1_RTS	USART3_TX USART3_RX/ USART3_CK/ FSMC_A16 FSMC_A17 TIM4_CH2 TIM4_CH3 TIM4_CH4 TIM8_CH1 TIM8_CH2 SDIO_D0 MCO2 USART1_CK TIM1_CH2 TIM1_CH3	USART3_CTS TIM4_CH1 SDIO_D6 SDIO_D7 TIM3_CH3 TIM8_CH4 TIM1_CH1 I2C3_SMBA OTG_FS_ID	USART3_RTS USART6_TX USART6_RX USART6_CK SDIO_D1 12C3_SCL DCMI_D0 DCMI_D1	DCMI_D0 DCMI_D1 DCMI_D2 I2C3_SDA	TIM3_CH1 TIM3_CH2					OTG_FS_
I/O	OK	FSMC_D13 FSMC_D14 FSMC_D15 LCD_WAIT LCD_INT FSMC_A18 FSMC_D0 FSMC_D1 USART6_TX USART6_TX SDIO_D0 SDIO_D1 I2C2_PWR_MEASURE USART1_TX USART1_TX CAN1_RX CAN1_TX	PD8 PD9 PD10 PD11 PD12 PD13 PD14 PD15 PC6 PC7 PC8 PC9 PA8 PA9 PA10 PA11		SPI2_MOSI FSMC_D13 FSMC_D14 FSMC_D15 FSMC_CLE FSMC_ALE FSMC_A18 FSMC_D0 FSMC_D1 I2S2_MCK I2S3_MCK TIM8_CH3 I2S_CKIN MCO1 USART1_TX USART1_RX USART1_CTS	USART3_TX USART3_RX/ USART3_CK/ FSMC_A16 FSMC_A17 TIM4_CH2 TIM4_CH3 TIM4_CH4 TIM8_CH1 TIM8_CH1 TIM8_CH2 SDIO_D0 MCO2 USART1_CK TIM1_CH2 TIM1_CH3 CAN1_RX	USART3_CTS TIM4_CH1 SDIO_D6 SDIO_D7 TIM3_CH3 TIM8_CH4 TIM1_CH1 I2C3_SMBA OTG_FS_ID TIM1_CH4	USART3_RTS USART6_TX USART6_RX USART6_CK SDIO_D1 12C3_SCL DCMI_D0 DCMI_D1 OTG_FS_DM	DCMI_D0 DCMI_D1 DCMI_D2 I2C3_SDA	TIM3_CH1 TIM3_CH2					OTG_FS_
I/O	OK	FSMC_D13 FSMC_D14 FSMC_D15 LCD_WAIT LCD_INT FSMC_A18 FSMC_D0 FSMC_D1 USART6_TX USART6_TX USART6_RX SDIO_D0 SDIO_D1 I2C2_PWR_MEASURE USART1_TX USART1_TX USART1_RX CAN1_RX CAN1_TX PA13 (JTMS-SWDIO) Vcap_2 Vss_2	PD8 PD9 PD10 PD11 PD12 PD13 PD14 PD15 PC6 PC7 PC8 PC9 PA8 PA9 PA10 PA11 PA12 PA13 (JTMS-SWDIO) Vcap_2 Vss_2		SPI2_MOSI FSMC_D13 FSMC_D14 FSMC_D15 FSMC_CLE FSMC_ALE FSMC_A18 FSMC_D0 FSMC_D1 I2S2_MCK I2S3_MCK TIM8_CH3 I2S_CKIN MCO1 USART1_TX USART1_RX USART1_RX USART1_RTS	USART3_TX USART3_RX/ USART3_CK/ FSMC_A16 FSMC_A17 TIM4_CH2 TIM4_CH3 TIM4_CH4 TIM8_CH1 TIM8_CH1 TIM8_CH2 SDIO_D0 MCO2 USART1_CK TIM1_CH2 TIM1_CH3 CAN1_RX	USART3_CTS TIM4_CH1 SDIO_D6 SDIO_D7 TIM3_CH3 TIM8_CH4 TIM1_CH1 I2C3_SMBA OTG_FS_ID TIM1_CH4	USART3_RTS USART6_TX USART6_RX USART6_CK SDIO_D1 12C3_SCL DCMI_D0 DCMI_D1 OTG_FS_DM	DCMI_D0 DCMI_D1 DCMI_D2 I2C3_SDA	TIM3_CH1 TIM3_CH2					OTG_FS_
I/O	OK	FSMC_D13 FSMC_D14 FSMC_D15 LCD_WAIT LCD_INT FSMC_A18 FSMC_D0 FSMC_D1 USART6_TX USART6_TX USART6_RX SDIO_D0 SDIO_D1 I2C2_PWR_MEASURE USART1_TX USART1_TX USART1_TX CAN1_RX CAN1_TX PA13 (JTMS-SWDIO) Vcap_2 Vss_2 Vdd_2	PD8 PD9 PD10 PD11 PD12 PD13 PD14 PD15 PC6 PC7 PC8 PC9 PA8 PA9 PA10 PA11 PA12 PA13 (JTMS-SWDIO) Vcap_2 Vss_2 Vdd_2		SPI2_MOSI FSMC_D13 FSMC_D14 FSMC_D15 FSMC_CLE FSMC_ALE FSMC_A18 FSMC_D0 FSMC_D1 I2S2_MCK I2S3_MCK TIM8_CH3 I2S_CKIN MCO1 USART1_TX USART1_RX USART1_RX USART1_RTS JTMS-SWDIO	USART3_TX USART3_RX/ USART3_CK/ FSMC_A16 FSMC_A17 TIM4_CH2 TIM4_CH3 TIM4_CH4 TIM8_CH1 TIM8_CH1 TIM8_CH2 SDIO_D0 MCO2 USART1_CK TIM1_CH2 TIM1_CH3 CAN1_RX	USART3_CTS TIM4_CH1 SDIO_D6 SDIO_D7 TIM3_CH3 TIM8_CH4 TIM1_CH1 I2C3_SMBA OTG_FS_ID TIM1_CH4	USART3_RTS USART6_TX USART6_RX USART6_CK SDIO_D1 12C3_SCL DCMI_D0 DCMI_D1 OTG_FS_DM	DCMI_D0 DCMI_D1 DCMI_D2 I2C3_SDA	TIM3_CH1 TIM3_CH2					OTG_FS_
I/O	OK	FSMC_D13 FSMC_D14 FSMC_D15 LCD_WAIT LCD_INT FSMC_A18 FSMC_D0 FSMC_D1 USART6_TX USART6_TX USART6_RX SDIO_D0 SDIO_D1 I2C2_PWR_MEASURE USART1_TX USART1_TX USART1_RX CAN1_RX CAN1_RX CAN1_TX PA13 (JTMS-SWDIO) Vcap_2 Vss_2 Vdd_2 PA14 (JTCK-SWCLK)	PD8 PD9 PD10 PD11 PD12 PD13 PD14 PD15 PC6 PC7 PC8 PC9 PA8 PA9 PA10 PA11 PA12 PA13 (JTMS-SWDIO) Vcap_2 Vss_2		SPI2_MOSI FSMC_D13 FSMC_D14 FSMC_D15 FSMC_CLE FSMC_ALE FSMC_A18 FSMC_D0 FSMC_D1 I2S2_MCK I2S3_MCK TIM8_CH3 I2S_CKIN MCO1 USART1_TX USART1_RX USART1_RX USART1_RTS	USART3_TX USART3_RX/ USART3_CK/ FSMC_A16 FSMC_A17 TIM4_CH2 TIM4_CH3 TIM4_CH4 TIM8_CH1 TIM8_CH1 TIM8_CH2 SDIO_D0 MCO2 USART1_CK TIM1_CH2 TIM1_CH3 CAN1_RX	USART3_CTS TIM4_CH1 SDIO_D6 SDIO_D7 TIM3_CH3 TIM8_CH4 TIM1_CH1 I2C3_SMBA OTG_FS_ID TIM1_CH4	USART3_RTS USART6_TX USART6_RX USART6_CK SDIO_D1 12C3_SCL DCMI_D0 DCMI_D1 OTG_FS_DM	DCMI_D0 DCMI_D1 DCMI_D2 I2C3_SDA	TIM3_CH1 TIM3_CH2					OTG_FS_
I/O	OK	FSMC_D13 FSMC_D14 FSMC_D15 LCD_WAIT LCD_INT FSMC_A18 FSMC_D0 FSMC_D1 USART6_TX USART6_TX USART6_RX SDIO_D0 SDIO_D1 I2C2_PWR_MEASURE USART1_TX USART1_TX USART1_RX CAN1_RX CAN1_RX CAN1_TX PA13 (JTMS-SWDIO) Vcap_2 Vss_2 Vdd_2 PA14 (JTCK-SWCLK) PA15 (JTDI) SDIO_D2	PD8 PD9 PD10 PD11 PD12 PD13 PD14 PD15 PC6 PC7 PC8 PC9 PA8 PA9 PA10 PA11 PA12 PA13 (JTMS-SWDIO) Vcap_2 Vss_2 Vdd_2 PA14 (JTCK-SWCLK) PA15 (JTDI) PC10		SPI2_MOSI FSMC_D13 FSMC_D14 FSMC_D15 FSMC_CLE FSMC_ALE FSMC_A18 FSMC_D0 FSMC_D1 I2S2_MCK I2S3_MCK I2S3_MCK TIM8_CH3 I2S_CKIN MCO1 USART1_TX USART1_TX USART1_RX USART1_RTS JTMS-SWDIO JTCK-SWCLK JTDI SPI3_SCK	USART3_TX USART3_RX/ USART3_CK/ FSMC_A16 FSMC_A17 TIM4_CH2 TIM4_CH3 TIM4_CH4 TIM8_CH1 TIM8_CH1 TIM8_CH2 SDIO_D0 MCO2 USART1_CK TIM1_CH2 TIM1_CH3 CAN1_RX CAN1_TX SPI3_NSS I2S3_CK	USART3_CTS TIM4_CH1 SDIO_D6 SDIO_D7 TIM3_CH3 TIM8_CH4 TIM1_CH1 I2C3_SMBA OTG_FS_ID TIM1_CH4 TIM1_ETR	USART3_RTS USART6_TX USART6_RX USART6_CK SDIO_D1 I2C3_SCL DCMI_D0 DCMI_D1 OTG_FS_DM OTG_FS_DM OTG_FS_DP	DCMI_D0 DCMI_D1 DCMI_D2 I2C3_SDA OTG_FS_SOF	TIM3_CH1 TIM3_CH2 DCMI_D3 USART3_TX					OTG_FS_
I/O	OK	FSMC_D13 FSMC_D14 FSMC_D15 LCD_WAIT LCD_INT FSMC_A18 FSMC_D0 FSMC_D1 USART6_TX USART6_RX SDIO_D0 SDIO_D1 I2C2_PWR_MEASURE USART1_TX USART1_RX CAN1_RX CAN1_TX PA13 (JTMS-SWDIO) Vcap_2 Vss_2 Vdd_2 PA14 (JTCK-SWCLK) PA15 (JTDI) SDIO_D2 SDIO_D3	PD8 PD9 PD10 PD11 PD12 PD13 PD14 PD15 PC6 PC7 PC8 PC9 PA8 PA9 PA10 PA11 PA12 PA13 (JTMS-SWDIO) Vcap_2 Vss_2 Vdd_2 PA14 (JTCK-SWCLK) PA15 (JTDI)		SPI2_MOSI FSMC_D13 FSMC_D14 FSMC_D15 FSMC_CLE FSMC_ALE FSMC_A18 FSMC_D0 FSMC_D1 I2S2_MCK I2S3_MCK TIM8_CH3 I2S_CKIN MCO1 USART1_TX USART1_RX USART1_RX USART1_RTS JTMS-SWDIO	USART3_TX USART3_RX/ USART3_CK/ FSMC_A16 FSMC_A17 TIM4_CH2 TIM4_CH3 TIM4_CH4 TIM8_CH1 TIM8_CH1 TIM8_CH2 SDIO_D0 MCO2 USART1_CK TIM1_CH2 TIM1_CH3 CAN1_RX CAN1_RX CAN1_TX	USART3_CTS TIM4_CH1 SDIO_D6 SDIO_D7 TIM3_CH3 TIM8_CH4 TIM1_CH1 I2C3_SMBA OTG_FS_ID TIM1_CH4 TIM1_ETR	USART3_RTS USART6_TX USART6_RX USART6_CK SDIO_D1 I2C3_SCL DCMI_D0 DCMI_D1 OTG_FS_DM OTG_FS_DM OTG_FS_DP	DCMI_D0 DCMI_D1 DCMI_D2 I2C3_SDA OTG_FS_SOF	TIM3_CH1 TIM3_CH2 DCMI_D3					OTG_FS_
I/O	OK OK	FSMC_D13 FSMC_D14 FSMC_D15 LCD_WAIT LCD_INT FSMC_A18 FSMC_D0 FSMC_D1 USART6_TX USART6_TX USART6_RX SDIO_D0 SDIO_D1 I2C2_PWR_MEASURE USART1_TX USART1_TX USART1_TX CAN1_TX PA13 (JTMS-SWDIO) Vcap_2 Vss_2 Vdd_2 PA14 (JTCK-SWCLK) PA15 (JTDI) SDIO_D3 SDIO_CK FSMC_D2	PD8 PD9 PD10 PD11 PD12 PD13 PD14 PD15 PC6 PC7 PC8 PC9 PA8 PA9 PA10 PA11 PA12 PA13 (JTMS-SWDIO) Vcap_2 Vss_2 Vdd_2 PA14 (JTCK-SWCLK) PA15 (JTDI) PC10 PC11 PC12 PD0		SPI2_MOSI FSMC_D13 FSMC_D14 FSMC_D15 FSMC_CLE FSMC_ALE FSMC_A18 FSMC_D0 FSMC_D1 I2S2_MCK I2S3_MCK TIM8_CH3 I2S_CKIN MCO1 USART1_TX USART1_TX USART1_RX USART1_RTS JTMS-SWDIO JTCK-SWCLK JTDI SPI3_SCK UART4_RX UART5_TX FSMC_D2	USART3_TX USART3_RX/ USART3_CK/ FSMC_A16 FSMC_A17 TIM4_CH2 TIM4_CH3 TIM4_CH4 TIM8_CH1 TIM8_CH1 TIM8_CH2 SDIO_DO MCO2 USART1_CK TIM1_CH3 CAN1_RX CAN1_RX CAN1_TX SPI3_NSS I2S3_CK SPI3_MISO SDIO_CK CAN1_RX	USART3_CTS TIM4_CH1 SDIO_D6 SDIO_D7 TIM3_CH3 TIM8_CH4 TIM1_CH1 I2C3_SMBA OTG_FS_ID TIM1_CH4 TIM1_ETR I2S3_WS UART4_TX SDIO_D3	USART3_RTS USART6_TX USART6_RX USART6_CK SDIO_D1 I2C3_SCL DCMI_D0 DCMI_D1 OTG_FS_DM OTG_FS_DM OTG_FS_DP TIM2_CH1_ETR SDIO_D2 DCMI_D4	DCMI_D0 DCMI_D1 DCMI_D2 I2C3_SDA OTG_FS_SOF SPI1_NSS DCMI_D8 USART3_RX	TIM3_CH1 TIM3_CH2 DCMI_D3 USART3_TX I2S3ext_SD					OTG_FS_
I/O	OK OK	FSMC_D13 FSMC_D14 FSMC_D15 LCD_WAIT LCD_INT FSMC_A18 FSMC_D0 FSMC_D1 USART6_TX USART6_TX USART6_RX SDIO_D0 SDIO_D1 I2C2_PWR_MEASURE USART1_TX USART1_TX USART1_RX CAN1_RX CAN1_TX PA13 (JTMS-SWDIO) Vcap_2 Vss_2 Vdd_2 PA14 (JTCK-SWCLK) PA15 (JTDI) SDIO_D3 SDIO_CK FSMC_D2 FSMC_D3	PD8 PD9 PD10 PD11 PD12 PD13 PD14 PD15 PC6 PC7 PC8 PC9 PA8 PA9 PA10 PA11 PA12 PA13 (JTMS-SWDIO) Vcap_2 Vss_2 Vdd_2 PA14 (JTCK-SWCLK) PA15 (JTDI) PC10 PC11 PC12 PD0 PD1		SPI2_MOSI FSMC_D13 FSMC_D14 FSMC_D15 FSMC_CLE FSMC_ALE FSMC_A18 FSMC_D0 FSMC_D1 I2S2_MCK I2S3_MCK TIM8_CH3 I2S_CKIN MCO1 USART1_TX USART1_TX USART1_RX USART1_RTS JTMS-SWDIO JTCK-SWCLK JTDI SPI3_SCK UART4_RX UART5_TX FSMC_D2 FSMC_D3	USART3_TX USART3_RX/ USART3_CK/ FSMC_A16 FSMC_A17 TIM4_CH2 TIM4_CH3 TIM4_CH4 TIM8_CH1 TIM8_CH1 TIM8_CH2 SDIO_DO MCO2 USART1_CK TIM1_CH2 TIM1_CH3 CAN1_RX CAN1_TX SPI3_NSS I2S3_CK SPI3_MISO SDIO_CK CAN1_RX CAN1_TX	USART3_CTS TIM4_CH1 SDIO_D6 SDIO_D7 TIM3_CH3 TIM8_CH4 TIM1_CH1 I2C3_SMBA OTG_FS_ID TIM1_CH4 TIM1_ETR I2S3_WS UART4_TX SDIO_D3 DCMI_D9	USART3_RTS USART6_TX USART6_RX USART6_CK SDIO_D1 I2C3_SCL DCMI_D0 DCMI_D1 OTG_FS_DM OTG_FS_DM OTG_FS_DP TIM2_CH1_ETR SDIO_D2 DCMI_D4 SPI3_MOSI	DCMI_D0 DCMI_D1 DCMI_D2 I2C3_SDA OTG_FS_SOF SPI1_NSS DCMI_D8 USART3_RX	TIM3_CH1 TIM3_CH2 DCMI_D3 USART3_TX I2S3ext_SD					OTG_FS_
I/O	OK OK	FSMC_D13 FSMC_D14 FSMC_D15 LCD_WAIT LCD_INT FSMC_A18 FSMC_D0 FSMC_D1 USART6_TX USART6_TX USART6_RX SDIO_D0 SDIO_D1 I2C2_PWR_MEASURE USART1_TX USART1_TX USART1_RX CAN1_RX CAN1_TX PA13 (JTMS-SWDIO) Vcap_2 Vss_2 Vdd_2 PA14 (JTCK-SWCLK) PA15 (JTDI) SDIO_D3 SDIO_CK FSMC_D3 SDIO_CMD	PD8 PD9 PD10 PD11 PD12 PD13 PD14 PD15 PC6 PC7 PC8 PC9 PA8 PA9 PA10 PA11 PA12 PA13 (JTMS-SWDIO) Vcap_2 Vss_2 Vdd_2 PA14 (JTCK-SWCLK) PA15 (JTDI) PC10 PC11 PC12 PD0		SPI2_MOSI FSMC_D13 FSMC_D14 FSMC_D15 FSMC_CLE FSMC_ALE FSMC_A18 FSMC_D0 FSMC_D1 I2S2_MCK I2S3_MCK TIM8_CH3 I2S_CKIN MCO1 USART1_TX USART1_TX USART1_RX USART1_RTS JTMS-SWDIO JTCK-SWCLK JTDI SPI3_SCK UART4_RX UART5_TX FSMC_D2	USART3_TX USART3_RX/ USART3_CK/ FSMC_A16 FSMC_A17 TIM4_CH2 TIM4_CH3 TIM4_CH4 TIM8_CH1 TIM8_CH1 TIM8_CH2 SDIO_DO MCO2 USART1_CK TIM1_CH3 CAN1_RX CAN1_RX CAN1_TX SPI3_NSS I2S3_CK SPI3_MISO SDIO_CK CAN1_RX	USART3_CTS TIM4_CH1 SDIO_D6 SDIO_D7 TIM3_CH3 TIM8_CH4 TIM1_CH1 I2C3_SMBA OTG_FS_ID TIM1_CH4 TIM1_ETR I2S3_WS UART4_TX SDIO_D3	USART3_RTS USART6_TX USART6_RX USART6_CK SDIO_D1 I2C3_SCL DCMI_D0 DCMI_D1 OTG_FS_DM OTG_FS_DM OTG_FS_DP TIM2_CH1_ETR SDIO_D2 DCMI_D4	DCMI_D0 DCMI_D1 DCMI_D2 I2C3_SDA OTG_FS_SOF SPI1_NSS DCMI_D8 USART3_RX	TIM3_CH1 TIM3_CH2 DCMI_D3 USART3_TX I2S3ext_SD					OTG_FS_
I/O	OK OK	FSMC_D13 FSMC_D14 FSMC_D15 LCD_WAIT LCD_INT FSMC_A18 FSMC_D0 FSMC_D1 USART6_TX USART6_RX SDIO_D0 SDIO_D1 I2C2_PWR_MEASURE USART1_TX USART1_TX USART1_RX CAN1_TX PA13 (JTMS-SWDIO) Vcap_2 Vss_2 Vdd_2 PA14 (JTCK-SWCLK) PA15 (JTDI) SDIO_D2 SDIO_CK FSMC_D3 SDIO_CMD FSMC_NOE	PD8 PD9 PD10 PD11 PD12 PD13 PD14 PD15 PC6 PC7 PC8 PC9 PA8 PA9 PA10 PA11 PA12 PA13 (JTMS-SWDIO) Vcap_2 Vss_2 Vdd_2 PA14 (JTCK-SWCLK) PA15 (JTDI) PC10 PC11 PC12 PD0 PD1 PD2 PD3 PD3 PD4		SPI2_MOSI FSMC_D13 FSMC_D14 FSMC_D15 FSMC_CLE FSMC_ALE FSMC_A18 FSMC_D0 FSMC_D1 I2S2_MCK I2S3_MCK TIM8_CH3 I2S_CKIN MCO1 USART1_TX USART1_TX USART1_RX USART1_RTS JTMS-SWDIO JTCK-SWCLK JTDI SPI3_SCK UART4_RX UART5_TX FSMC_D2 FSMC_D3 TIM3_ETR FSMC_CLK FSMC_NOE	USART3_TX USART3_RX/ USART3_CK/ FSMC_A16 FSMC_A17 TIM4_CH2 TIM4_CH3 TIM4_CH4 TIM8_CH1 TIM8_CH1 TIM8_CH2 SDIO_DO MCO2 USART1_CK TIM1_CH2 TIM1_CH3 CAN1_RX CAN1_TX SPI3_MISO SDIO_CK CAN1_RX USART2_CTS USART2_RTS	USART3_CTS TIM4_CH1 SDIO_D6 SDIO_D7 TIM3_CH3 TIM8_CH4 TIM1_CH1 I2C3_SMBA OTG_FS_ID TIM1_CH4 TIM1_ETR I2S3_WS UART4_TX SDIO_D3 DCMI_D9	USART3_RTS USART6_TX USART6_RX USART6_CK SDIO_D1 I2C3_SCL DCMI_D0 DCMI_D1 OTG_FS_DM OTG_FS_DM OTG_FS_DP TIM2_CH1_ETR SDIO_D2 DCMI_D4 SPI3_MOSI	DCMI_D0 DCMI_D1 DCMI_D2 I2C3_SDA OTG_FS_SOF SPI1_NSS DCMI_D8 USART3_RX	TIM3_CH1 TIM3_CH2 DCMI_D3 USART3_TX I2S3ext_SD					OTG_FS_
I/O	OK OK	FSMC_D13 FSMC_D14 FSMC_D15 LCD_WAIT LCD_INT FSMC_A18 FSMC_D0 FSMC_D1 USART6_TX USART6_RX SDIO_D0 SDIO_D1 I2C2_PWR_MEASURE USART1_TX USART1_RX CAN1_TX PA13 (JTMS-SWDIO) Vcap_2 Vss_2 Vdd_2 PA14 (JTCK-SWCLK) PA15 (JTDI) SDIO_D2 SDIO_D3 SDIO_CK FSMC_D3 SDIO_CMD FSMC_NOE FSMC_NOE FSMC_NOE FSMC_NOE FSMC_NOE	PD8 PD9 PD10 PD11 PD12 PD13 PD14 PD15 PC6 PC7 PC8 PC9 PA8 PA9 PA10 PA11 PA12 PA13 (JTMS-SWDIO) Vcap_2 Vss_2 Vdd_2 PA14 (JTCK-SWCLK) PA15 (JTDI) PC10 PC11 PC12 PD0 PD1 PD2 PD3		SPI2_MOSI FSMC_D13 FSMC_D14 FSMC_D15 FSMC_CLE FSMC_ALE FSMC_ALE FSMC_A18 FSMC_D0 FSMC_D1 I2S2_MCK I2S3_MCK TIM8_CH3 I2S_CKIN MCO1 USART1_TX USART1_TX USART1_RX USART1_RTS JTMS-SWDIO JTCK-SWCLK JTDI SPI3_SCK UART4_RX UART5_TX FSMC_D2 FSMC_D3 TIM3_ETR FSMC_CLK	USART3_TX USART3_RX/ USART3_CK/ FSMC_A16 FSMC_A17 TIM4_CH2 TIM4_CH3 TIM4_CH4 TIM8_CH1 TIM8_CH1 TIM8_CH2 SDIO_D0 MCO2 USART1_CK TIM1_CH3 CAN1_RX CAN1_RX CAN1_TX SPI3_MISO SDIO_CK CAN1_RX UART5_RX USART2_CTS	USART3_CTS TIM4_CH1 SDIO_D6 SDIO_D7 TIM3_CH3 TIM8_CH4 TIM1_CH1 I2C3_SMBA OTG_FS_ID TIM1_CH4 TIM1_ETR I2S3_WS UART4_TX SDIO_D3 DCMI_D9	USART3_RTS USART6_TX USART6_RX USART6_CK SDIO_D1 I2C3_SCL DCMI_D0 DCMI_D1 OTG_FS_DM OTG_FS_DM OTG_FS_DP TIM2_CH1_ETR SDIO_D2 DCMI_D4 SPI3_MOSI	DCMI_D0 DCMI_D1 DCMI_D2 I2C3_SDA OTG_FS_SOF SPI1_NSS DCMI_D8 USART3_RX	TIM3_CH1 TIM3_CH2 DCMI_D3 USART3_TX I2S3ext_SD					OTG_FS_
I/O	OK OK	FSMC_D13 FSMC_D14 FSMC_D15 LCD_WAIT LCD_INT FSMC_A18 FSMC_D0 FSMC_D1 USART6_TX USART6_RX SDIO_D0 SDIO_D1 I2C2_PWR_MEASURE USART1_TX USART1_TX USART1_RX CAN1_RX CAN1_TX PA13 (JTMS-SWDIO) Vcap_2 Vss_2 Vdd_2 PA14 (JTCK-SWCLK) PA15 (JTDI) SDIO_D2 SDIO_D3 SDIO_CK FSMC_D3 SDIO_CMD FSMC_NOE FSMC_NOE FSMC_NOE FSMC_NWE CTP_INT FSMC_NE1	PD8 PD9 PD10 PD11 PD12 PD13 PD14 PD15 PC6 PC7 PC8 PC9 PA8 PA9 PA10 PA11 PA12 PA13 (JTMS-SWDIO) Vcap_2 Vss_2 Vdd_2 PA14 (JTCK-SWCLK) PA15 (JTDI) PC10 PC11 PC12 PD0 PD1 PD2 PD3 PD4 PD5 PD6 PD6 PD7		SPI2_MOSI FSMC_D13 FSMC_D14 FSMC_D15 FSMC_CLE FSMC_ALE FSMC_A18 FSMC_D0 FSMC_D1 I2S2_MCK I2S3_MCK TIM8_CH3 I2S_CKIN MCO1 USART1_TX USART1_TX USART1_RX USART1_RTS JTMS-SWDIO JTCK-SWCLK JTDI SPI3_SCK UART4_RX UART5_TX FSMC_D2 FSMC_D3 TIM3_ETR FSMC_CLK FSMC_NOE FSMC_NWE FSMC_NWE FSMC_NWAIT USART2_CK	USART3_TX USART3_RX/ USART3_CK/ FSMC_A16 FSMC_A17 TIM4_CH2 TIM4_CH3 TIM4_CH4 TIM8_CH1 TIM8_CH1 TIM8_CH2 SDIO_DO MCO2 USART1_CK TIM1_CH3 CAN1_RX CAN1_RX CAN1_TX SPI3_MISO SDIO_CK CAN1_RX UART5_RX USART2_CTS USART2_RTS USART2_RTS USART2_RX FSMC_NE1	USART3_CTS TIM4_CH1 SDIO_D6 SDIO_D7 TIM3_CH3 TIM8_CH4 TIM1_CH1 I2C3_SMBA OTG_FS_ID TIM1_CH4 TIM1_ETR I2S3_WS UART4_TX SDIO_D3 DCMI_D9 SDIO_CMD	USART3_RTS USART6_TX USART6_RX USART6_CK SDIO_D1 I2C3_SCL DCMI_D0 DCMI_D1 OTG_FS_DM OTG_FS_DM OTG_FS_DP TIM2_CH1_ETR SDIO_D2 DCMI_D4 SPI3_MOSI	DCMI_D0 DCMI_D1 DCMI_D2 I2C3_SDA OTG_FS_SOF SPI1_NSS DCMI_D8 USART3_RX I2S3_SD	TIM3_CH1 TIM3_CH2 DCMI_D3 USART3_TX I2S3ext_SD USART3_CK					OTG_FS_
I/O	OK OK	FSMC_D13 FSMC_D14 FSMC_D15 LCD_WAIT LCD_INT FSMC_A18 FSMC_D0 FSMC_D1 USART6_TX USART6_RX SDIO_D0 SDIO_D1 I2C2_PWR_MEASURE USART1_TX USART1_TX USART1_RX CAN1_RX CAN1_TX PA13 (JTMS-SWDIO) Vcap_2 Vss_2 Vdd_2 PA14 (JTCK-SWCLK) PA15 (JTDI) SDIO_D2 SDIO_D3 SDIO_CK FSMC_D3 SDIO_CMD FSMC_NOE FSMC_NOE FSMC_NOE FSMC_NWE CTP_INT FSMC_NE1	PD8 PD9 PD10 PD11 PD12 PD13 PD14 PD15 PC6 PC7 PC8 PC9 PA8 PA9 PA10 PA11 PA12 PA13 (JTMS-SWDIO) Vcap_2 Vss_2 Vdd_2 PA14 (JTCK-SWCLK) PA15 (JTDI) PC10 PC11 PC12 PD0 PD1 PD2 PD3 PD4 PD5 PD6		SPI2_MOSI FSMC_D13 FSMC_D14 FSMC_D15 FSMC_CLE FSMC_ALE FSMC_ALE FSMC_A18 FSMC_D0 FSMC_D1 I2S2_MCK I2S3_MCK TIM8_CH3 I2S_CKIN MCO1 USART1_TX USART1_TX USART1_RX USART1_RX USART1_RTS JTMS-SWDIO JTCK-SWCLK JTDI SPI3_SCK UART4_RX UART5_TX FSMC_D2 FSMC_D3 TIM3_ETR FSMC_CLK FSMC_NWE FSMC_NWE FSMC_NWE FSMC_NWAIT	USART3_TX USART3_RX/ USART3_CK/ FSMC_A16 FSMC_A17 TIM4_CH2 TIM4_CH3 TIM4_CH4 TIM8_CH1 TIM8_CH1 TIM8_CH2 SDIO_DO MCO2 USART1_CK TIM1_CH3 CAN1_RX CAN1_RX CAN1_TX SPI3_MISO SDIO_CK CAN1_RX USART2_CTS USART2_RTS USART2_RX	USART3_CTS TIM4_CH1 SDIO_D6 SDIO_D7 TIM3_CH3 TIM8_CH4 TIM1_CH1 I2C3_SMBA OTG_FS_ID TIM1_CH4 TIM1_ETR I2S3_WS UART4_TX SDIO_D3 DCMI_D9 SDIO_CMD	USART3_RTS USART6_TX USART6_RX USART6_CK SDIO_D1 I2C3_SCL DCMI_D0 DCMI_D1 OTG_FS_DM OTG_FS_DM OTG_FS_DP TIM2_CH1_ETR SDIO_D2 DCMI_D4 SPI3_MOSI	DCMI_D0 DCMI_D1 DCMI_D2 I2C3_SDA OTG_FS_SOF SPI1_NSS DCMI_D8 USART3_RX	TIM3_CH1 TIM3_CH2 DCMI_D3 USART3_TX I2S3ext_SD					OTG_FS_
I/O	OK OK	FSMC_D13 FSMC_D14 FSMC_D15 LCD_WAIT LCD_INT FSMC_A18 FSMC_D0 FSMC_D1 USART6_TX USART6_TX USART6_RX SDIO_D0 SDIO_D1 I2C2_PWR_MEASURE USART1_TX USART1_TX USART1_TX CAN1_RX CAN1_RX CAN1_TX PA13 (JTMS-SWDIO) Vcap_2 Vss_2 Vdd_2 PA14 (JTCK-SWCLK) PA15 (JTDI) SDIO_D2 SDIO_D3 SDIO_CK FSMC_D3 SDIO_CK FSMC_D3 SDIO_CMD FSMC_NOE FSMC_NWE CTP_INT FSMC_NE1 PB3 (JTDO/ TRACESWO)	PD8 PD9 PD10 PD11 PD12 PD13 PD14 PD15 PC6 PC7 PC8 PC9 PA8 PA9 PA10 PA11 PA12 PA13 (JTMS-SWDIO) Vcap_2 Vss_2 Vdd_2 PA14 (JTCK-SWCLK) PA15 (JTDI) PC10 PC11 PC12 PD0 PD1 PD2 PD3 PD4 PD5 PD6 PD7 PB3 (JTDO/ TRACESWO) PB4 (NJTRST)		SPI2_MOSI FSMC_D13 FSMC_D14 FSMC_D15 FSMC_CLE FSMC_ALE FSMC_A18 FSMC_D0 FSMC_D1 I2S2_MCK I2S3_MCK TIM8_CH3 I2S_CKIN MCO1 USART1_TX USART1_TX USART1_RX USART1_RTS JTMS-SWDIO JTCK-SWCLK JTDI SPI3_SCK UART4_RX UART5_TX FSMC_D2 FSMC_D3 TIM3_ETR FSMC_CLK FSMC_NOE FSMC_NWE FSMC_NWE FSMC_NWE FSMC_NWAIT USART2_CK JTDO NJTRST	USART3_TX USART3_RX/ USART3_CK/ FSMC_A16 FSMC_A17 TIM4_CH2 TIM4_CH3 TIM4_CH4 TIM8_CH1 TIM8_CH1 TIM8_CH2 SDIO_DO MCO2 USART1_CK TIM1_CH2 TIM1_CH3 CAN1_RX CAN1_TX SPI3_MISO SDIO_CK CAN1_TX UART5_RX USART2_CTS USART2_TX USART2_TX USART2_TX USART2_TX USART2_TX USART2_RX FSMC_NE1 TRACESWO	USART3_CTS TIM4_CH1 SDIO_D6 SDIO_D7 TIM3_CH3 TIM8_CH4 TIM1_CH1 I2C3_SMBA OTG_FS_ID TIM1_CH4 TIM1_ETR I2S3_WS UART4_TX SDIO_D3 DCMI_D9 SDIO_CMD FSMC_NCE2 SPI3_SCK TIM3_CH1	USART3_RTS USART6_TX USART6_RX USART6_CK SDIO_D1 I2C3_SCL DCMI_D0 DCMI_D1 OTG_FS_DM OTG_FS_DM OTG_FS_DP TIM2_CH1_ETR SDIO_D2 DCMI_D4 SPI3_MOSI I2S3_CK SPI1_MISO	TIM12_CH2 DCMI_D0 DCMI_D1 DCMI_D2 I2C3_SDA OTG_FS_SOF SPI1_NSS DCMI_D8 USART3_RX I2S3_SD TIM2_CH2 I2S3ext_SD	TIM3_CH1 TIM3_CH2 DCMI_D3 USART3_TX I2S3ext_SD USART3_CK	TIM3_CH4				OTG_FS_
I/O	OK OK	FSMC_D13 FSMC_D14 FSMC_D15 LCD_WAIT LCD_INT FSMC_A18 FSMC_D0 FSMC_D1 USART6_TX USART6_TX USART6_RX SDIO_D0 SDIO_D1 I2C2_PWR_MEASURE USART1_TX USART1_TX USART1_RX CAN1_TX PA13 (JTMS-SWDIO) Vcap_2 Vss_2 Vdd_2 PA14 (JTCK-SWCLK) PA15 (JTDI) SDIO_D2 SDIO_D3 SDIO_CK FSMC_D3 SDIO_CK FSMC_D3 SDIO_CMD FSMC_NOE FSMC_NOE FSMC_NOE FSMC_NWE CTP_INT FSMC_NE1 PB3 (JTDO/ TRACESWO) PB4 (NJTRST) CAN2_RX	PD8 PD9 PD10 PD11 PD12 PD13 PD14 PD15 PC6 PC7 PC8 PC9 PA8 PA9 PA10 PA11 PA12 PA13 (JTMS-SWDIO) Vcap_2 Vss_2 Vdd_2 PA14 (JTCK-SWCLK) PA15 (JTDI) PC10 PC11 PC12 PD0 PD1 PD2 PD3 PD4 PD5 PD6 PD7 PB3 (JTDO/ TRACESWO) PB4 (NJTRST) PB5		SPI2_MOSI FSMC_D13 FSMC_D14 FSMC_D15 FSMC_CLE FSMC_ALE FSMC_A18 FSMC_D0 FSMC_D1 I2S2_MCK I2S3_MCK TIM8_CH3 I2S_CKIN MCO1 USART1_TX USART1_TX USART1_RX USART1_RTS JTMS-SWDIO JTCK-SWCLK JTDI SPI3_SCK UART4_RX UART5_TX FSMC_D2 FSMC_D3 TIM3_ETR FSMC_CLK FSMC_NOE FSMC_NWE FSMC_NWE FSMC_NWE FSMC_NWE FSMC_NWE TSMC_NWE TSMC_NUBA I2C1_SMBA	USART3_TX USART3_RX/ USART3_CK/ FSMC_A16 FSMC_A17 TIM4_CH2 TIM4_CH3 TIM4_CH4 TIM8_CH1 TIM8_CH1 TIM8_CH2 SDIO_D0 MCO2 USART1_CK TIM1_CH2 TIM1_CH3 CAN1_RX CAN1_RX CAN1_TX UART5_RX USART2_CTS USART2_TX USART2_TX USART2_TX USART2_RX FSMC_NE1 TRACESWO	USART3_CTS TIM4_CH1 SDIO_D6 SDIO_D7 TIM3_CH3 TIM8_CH4 TIM1_CH1 I2C3_SMBA OTG_FS_ID TIM1_CH4 TIM1_ETR I2S3_WS UART4_TX SDIO_D3 DCMI_D9 SDIO_CMD FSMC_NCE2 SPI3_SCK TIM3_CH1 OTG_HS_ULPI_D7	USART3_RTS USART6_TX USART6_TX USART6_CK SDIO_D1 I2C3_SCL DCMI_D0 DCMI_D1 OTG_FS_DM OTG_FS_DM OTG_FS_DP TIM2_CH1_ETR SDIO_D2 DCMI_D4 SPI3_MOSI I2S3_CK SPI1_MISO ETH_PPS_OUT	TIM12_CH2 DCMI_D0 DCMI_D1 DCMI_D2 I2C3_SDA OTG_FS_SOF SPI1_NSS DCMI_D8 USART3_RX I2S3_SD TIM2_CH2 I2S3ext_SD TIM3_CH2	TIM3_CH1 TIM3_CH2 DCMI_D3 USART3_TX I2S3ext_SD USART3_CK		DCMI_D10	I2S3_SD		OTG_FS_
1/O	OK OK	FSMC_D13 FSMC_D14 FSMC_D15 LCD_WAIT LCD_INT FSMC_A18 FSMC_D0 FSMC_D1 USART6_TX USART6_TX USART6_TX USART1_TX USART1_TX USART1_TX USART1_TX CAN1_TX PA13 (JTMS-SWDIO) Vcap_2 Vss_2 Vdd_2 PA14 (JTCK-SWCLK) PA15 (JTDI) SDIO_D2 SDIO_CK FSMC_D3 SDIO_CMD FSMC_NOE	PD8 PD9 PD10 PD11 PD12 PD13 PD14 PD15 PC6 PC7 PC8 PC9 PA8 PA9 PA10 PA11 PA12 PA13 (JTMS-SWDIO) Vcap_2 Vss_2 Vdd_2 PA14 (JTCK-SWCLK) PA15 (JTDI) PC10 PC11 PC12 PD0 PD1 PD2 PD3 PD4 PD5 PD6 PD7 PB3 (JTDO/ TRACESWO) PB4 (NJTRST)		SPI2_MOSI FSMC_D13 FSMC_D14 FSMC_D15 FSMC_CLE FSMC_ALE FSMC_A18 FSMC_D0 FSMC_D1 I2S2_MCK I2S3_MCK TIM8_CH3 I2S_CKIN MCO1 USART1_TX USART1_TX USART1_RX USART1_RTS JTMS-SWDIO JTCK-SWCLK JTDI SPI3_SCK UART4_RX UART5_TX FSMC_D2 FSMC_D3 TIM3_ETR FSMC_CLK FSMC_NOE FSMC_NWE FSMC_NWE FSMC_NWE FSMC_NWAIT USART2_CK JTDO NJTRST	USART3_TX USART3_RX/ USART3_CK/ FSMC_A16 FSMC_A17 TIM4_CH2 TIM4_CH3 TIM4_CH4 TIM8_CH1 TIM8_CH1 TIM8_CH2 SDIO_DO MCO2 USART1_CK TIM1_CH2 TIM1_CH3 CAN1_RX CAN1_TX SPI3_MISO SDIO_CK CAN1_TX UART5_RX USART2_CTS USART2_TX USART2_TX USART2_TX USART2_TX USART2_TX USART2_RX FSMC_NE1 TRACESWO	USART3_CTS TIM4_CH1 SDIO_D6 SDIO_D7 TIM3_CH3 TIM8_CH4 TIM1_CH1 I2C3_SMBA OTG_FS_ID TIM1_CH4 TIM1_ETR I2S3_WS UART4_TX SDIO_D3 DCMI_D9 SDIO_CMD FSMC_NCE2 SPI3_SCK TIM3_CH1	USART3_RTS USART6_TX USART6_RX USART6_CK SDIO_D1 I2C3_SCL DCMI_D0 DCMI_D1 OTG_FS_DM OTG_FS_DM OTG_FS_DP TIM2_CH1_ETR SDIO_D2 DCMI_D4 SPI3_MOSI I2S3_CK SPI1_MISO	TIM12_CH2 DCMI_D0 DCMI_D1 DCMI_D2 I2C3_SDA OTG_FS_SOF SPI1_NSS DCMI_D8 USART3_RX I2S3_SD TIM2_CH2 I2S3ext_SD	TIM3_CH1 TIM3_CH2 DCMI_D3 USART3_TX I2S3ext_SD USART3_CK	TIM3_CH4	DCMI_D10	I2S3_SD		OTG_FS_
I/O	OK OK	FSMC_D13 FSMC_D14 FSMC_D15 LCD_WAIT LCD_INT FSMC_A18 FSMC_D0 FSMC_D1 USART6_TX USART6_TX USART6_RX SDIO_D0 SDIO_D1 I2C2_PWR_MEASURE USART1_TX USART1_RX CAN1_RX CAN1_RX CAN1_TX PA13 (JTMS-SWDIO) Vcap_2 Vss_2 Vdd_2 PA14 (JTCK-SWCLK) PA15 (JTDI) SDIO_D2 SDIO_D3 SDIO_CK FSMC_D2 FSMC_D3 SDIO_CMD FSMC_NOE FSMC_NOE FSMC_NOE FSMC_NOE FSMC_NE1 PB3 (JTDO/ TRACESWO) PB4 (NJTRST) CAN2_RX CAN2_TX BOOTO	PD8 PD9 PD10 PD11 PD12 PD13 PD14 PD15 PC6 PC7 PC8 PC9 PA8 PA9 PA10 PA11 PA12 PA13 (JTMS-SWDIO) Vcap_2 Vss_2 Vdd_2 PA14 (JTCK-SWCLK) PA15 (JTDI) PC10 PC11 PC12 PD0 PD1 PD2 PD3 PD4 PD5 PD6 PD7 PB3 (JTDO/ TRACESWO) PB4 (NJTRST) PB5 PB6 PB7 BOOT0		SPI2_MOSI FSMC_D13 FSMC_D14 FSMC_D15 FSMC_CLE FSMC_ALE FSMC_ALE FSMC_A18 FSMC_D0 FSMC_D1 I2S2_MCK I2S3_MCK TIM8_CH3 I2S_CKIN MCO1 USART1_TX USART1_TX USART1_RX USART1_RTS JTMS-SWDIO JTCK-SWCLK JTDI SPI3_SCK UART4_RX UART5_TX FSMC_D2 FSMC_D3 TIM3_ETR FSMC_CLK FSMC_NOE FSMC_NWE FSMC_NWE FSMC_NWAIT USART2_CK JTDO NJTRST I2C1_SDA	USART3_TX USART3_RX/ USART3_CK/ FSMC_A16 FSMC_A17 TIM4_CH2 TIM4_CH3 TIM4_CH4 TIM8_CH1 TIM8_CH1 TIM8_CH2 SDIO_DO MCO2 USART1_CK TIM1_CH2 TIM1_CH3 CAN1_RX CAN1_TX SPI3_NSS I2S3_CK SPI3_MISO SDIO_CK CAN1_TX UART5_RX USART2_CTS USART2_TX USART2_TX USART2_RTS USART2_RX FSMC_NE1 TRACESWO SPI3_MISO CAN2_RX TIM4_CH1 FSMC_NL	USART3_CTS TIM4_CH1 SDIO_D6 SDIO_D7 TIM3_CH3 TIM8_CH4 TIM1_CH1 I2C3_SMBA OTG_FS_ID TIM1_CH4 TIM1_ETR I2S3_WS UART4_TX SDIO_D3 DCMI_D9 SDIO_CMD FSMC_NCE2 SPI3_SCK TIM3_CH1 OTG_HS_ULPI_D7 CAN2_TX DCMI_VSYNC	USART3_RTS USART6_TX USART6_RX USART6_CK SDIO_D1 I2C3_SCL DCMI_D1 OTG_FS_DM OTG_FS_DM OTG_FS_DP TIM2_CH1_ETR SDIO_D2 DCMI_D4 SPI3_MOSI I2S3_CK SPI1_MISO ETH_PPS_OUT DCMI_D5 USART1_RX	TIM12_CH2 DCMI_D0 DCMI_D1 DCMI_D2 I2C3_SDA OTG_FS_SOF SPI1_NSS DCMI_D8 USART3_RX I2S3_SD TIM2_CH2 USART1_TX TIM4_CH2	TIM3_CH1 TIM3_CH2 DCMI_D3 USART3_TX I2S3ext_SD USART3_CK SPI1_MOSI	TIM3_CH4 SPI3_MOSI	DCMI_D10	I2S3_SD		
I/O	OK OK	FSMC_D13 FSMC_D14 FSMC_D15 LCD_WAIT LCD_INT FSMC_A18 FSMC_D0 FSMC_D1 USART6_TX USART6_TX USART6_RX SDIO_D0 SDIO_D1 I2C2_PWR_MEASURE USART1_TX USART1_TX USART1_RX CAN1_TX PA13 (JTMS-SWDIO) Vcap_2 Vss_2 Vdd_2 PA14 (JTCK-SWCLK) PA15 (JTDI) SDIO_D2 SDIO_CK FSMC_D2 FSMC_D3 SDIO_CKD FSMC_NOE FSMC	PD8 PD9 PD10 PD11 PD12 PD13 PD14 PD15 PC6 PC7 PC8 PC9 PA8 PA9 PA10 PA11 PA12 PA13 (JTMS-SWDIO) Vcap_2 Vss_2 Vdd_2 PA14 (JTCK-SWCLK) PA15 (JTDI) PC10 PC11 PC12 PD0 PD1 PD2 PD3 PD4 PD5 PD6 PD7 PB3 (JTDO/TRACESWO) PB4 (NJTRST) PB6 PB7 BOOT0 PB8		SPI2_MOSI FSMC_D13 FSMC_D14 FSMC_D15 FSMC_CLE FSMC_ALE FSMC_A18 FSMC_D0 FSMC_D1 I2S2_MCK I2S3_MCK TIM8_CH3 I2S_CKIN MCO1 USART1_TX USART1_TX USART1_RTS JTMS-SWDIO JTCK-SWCLK JTDI SPI3_SCK UART4_RX UART5_TX FSMC_D2 FSMC_D3 TIM3_ETR FSMC_CLK FSMC_NOE FSMC_NWE FSMC_NWE FSMC_NWE FSMC_NWE TIM4_CH3 TIM4_CH3	USART3_TX USART3_RX/ USART3_CK/ FSMC_A16 FSMC_A17 TIM4_CH2 TIM4_CH3 TIM4_CH4 TIM8_CH1 TIM8_CH2 SDIO_DO MCO2 USART1_CK TIM1_CH2 TIM1_CH3 CAN1_RX CAN1_RX CAN1_TX UART5_RX USART2_CTS USART2_TX USART2_RX FSMC_NE1 TRACESWO SDIO_D4	USART3_CTS TIM4_CH1 SDIO_D6 SDIO_D7 TIM3_CH3 TIM8_CH4 TIM1_CH1 I2C3_SMBA OTG_FS_ID TIM1_CH4 TIM1_ETR I2S3_WS UART4_TX SDIO_D3 DCMI_D9 SDIO_CMD FSMC_NCE2 SPI3_SCK TIM3_CH1 OTG_HS_ULPI_D7 CAN2_TX DCMI_VSYNC TIM10_CH1	USART3_RTS USART6_TX USART6_RX USART6_CK SDIO_D1 I2C3_SCL DCMI_D0 DCMI_D1 OTG_FS_DM OTG_FS_DM OTG_FS_DP TIM2_CH1_ETR SDIO_D2 DCMI_D4 SPI3_MOSI I2S3_CK SPI1_MISO ETH_PPS_OUT DCMI_D1 USART1_RX DCMI_D6	TIM12_CH2 DCMI_D0 DCMI_D1 DCMI_D2 I2C3_SDA OTG_FS_SOF SPI1_NSS DCMI_D8 USART3_RX I2S3_SD TIM2_CH2 I2S3ext_SD TIM3_CH2 USART1_TX TIM4_CH2 ETH_MII_TXD3	TIM3_CH1 TIM3_CH2 DCMI_D3 USART3_TX I2S3ext_SD USART3_CK SPI1_SCK	TIM3_CH4 SPI3_MOSI				
I/O	OK OK	FSMC_D13 FSMC_D14 FSMC_D15 LCD_WAIT LCD_INT FSMC_A18 FSMC_D0 FSMC_D1 USART6_TX USART6_TX USART6_RX SDIO_D0 SDIO_D1 I2C2_PWR_MEASURE USART1_TX USART1_TX USART1_RX CAN1_TX PA13 (JTMS-SWDIO) Vcap_2 Vss_2 Vdd_2 PA14 (JTCK-SWCLK) PA15 (JTDI) SDIO_D2 SDIO_D3 SDIO_CK FSMC_D3 SDIO_CK FSMC_D3 SDIO_CMD FSMC_NOE FSMC_NOE FSMC_NOE FSMC_NOE FSMC_NOE FSMC_NOE FSMC_NOE FSMC_NOE FSMC_NOE FSMC_NUE CTP_INT FSMC_NE1 PB3 (JTDO/ TRACESWO) PB4 (NJTRST) CAN2_RX CAN2_TX BOOTO I2C1_SCL I2C1_SDA	PD8 PD9 PD10 PD11 PD12 PD13 PD14 PD15 PC6 PC7 PC8 PC9 PA8 PA9 PA10 PA11 PA12 PA13 (JTMS-SWDIO) Vcap_2 Vss_2 Vdd_2 PA14 (JTCK-SWCLK) PA15 (JTDI) PC10 PC11 PC12 PD0 PD1 PD2 PD3 PD4 PD5 PD6 PD7 PB3 (JTDO/TRACESWO) PB4 (NJTRST) PB5 PB6 PB7 BOOTO PB8 PB9 PE0		SPI2_MOSI FSMC_D13 FSMC_D14 FSMC_D15 FSMC_CLE FSMC_ALE FSMC_A18 FSMC_D0 FSMC_D1 I2S2_MCK I2S3_MCK TIM8_CH3 I2S_CKIN MCO1 USART1_TX USART1_TX USART1_RTS JTMS-SWDIO JTCK-SWCLK JTDI SPI3_SCK UART4_RX UART5_TX FSMC_D2 FSMC_D3 TIM3_ETR FSMC_CLK FSMC_NOE FSMC_NWE FSMC_NWE FSMC_NWE FSMC_NWAIT USART2_CK JTDO NJTRST I2C1_SMBA I2C1_SCL I2C1_SDA	USART3_TX USART3_RX/ USART3_CK/ FSMC_A16 FSMC_A17 TIM4_CH2 TIM4_CH3 TIM4_CH4 TIM8_CH1 TIM8_CH1 TIM8_CH2 SDIO_DO MCO2 USART1_CK TIM1_CH2 TIM1_CH3 CAN1_RX CAN1_TX SPI3_NSS I2S3_CK SPI3_MISO SDIO_CK CAN1_TX UART5_RX USART2_CTS USART2_TX USART2_TX USART2_RTS USART2_RX FSMC_NE1 TRACESWO SPI3_MISO CAN2_RX TIM4_CH1 FSMC_NL	USART3_CTS TIM4_CH1 SDIO_D6 SDIO_D7 TIM3_CH3 TIM8_CH4 TIM1_CH1 I2C3_SMBA OTG_FS_ID TIM1_CH4 TIM1_ETR I2S3_WS UART4_TX SDIO_D3 DCMI_D9 SDIO_CMD FSMC_NCE2 SPI3_SCK TIM3_CH1 OTG_HS_ULPI_D7 CAN2_TX DCMI_VSYNC	USART3_RTS USART6_TX USART6_RX USART6_CK SDIO_D1 I2C3_SCL DCMI_D1 OTG_FS_DM OTG_FS_DM OTG_FS_DP TIM2_CH1_ETR SDIO_D2 DCMI_D4 SPI3_MOSI I2S3_CK SPI1_MISO ETH_PPS_OUT DCMI_D5 USART1_RX	TIM12_CH2 DCMI_D0 DCMI_D1 DCMI_D2 I2C3_SDA OTG_FS_SOF SPI1_NSS DCMI_D8 USART3_RX I2S3_SD TIM2_CH2 USART1_TX TIM4_CH2	TIM3_CH1 TIM3_CH2 DCMI_D3 USART3_TX I2S3ext_SD USART3_CK SPI1_MOSI	TIM3_CH4 SPI3_MOSI	DCMI_D10	I2S3_SD		OTG_FS_ VPF
1/0	OK OK	FSMC_D13 FSMC_D14 FSMC_D15 LCD_WAIT LCD_INT FSMC_A18 FSMC_D0 FSMC_D1 USART6_TX USART6_TX USART6_RX SDIO_D0 SDIO_D1 I2C2_PWR_MEASURE USART1_TX USART1_TX USART1_RX CAN1_TX PA13 (JTMS-SWDIO) Vcap_2 Vss_2 Vdd_2 PA14 (JTCK-SWCLK) PA15 (JTDI) SDIO_D2 SDIO_D3 SDIO_CK FSMC_D3 SDIO_CK FSMC_D3 SDIO_CMD FSMC_NOE FSMC_NOE FSMC_NOE FSMC_NOE FSMC_NOE FSMC_NOE FSMC_NOE FSMC_NOE FSMC_NOE FSMC_NUE CTP_INT FSMC_NE1 PB3 (JTDO/ TRACESWO) PB4 (NJTRST) CAN2_RX CAN2_TX BOOTO I2C1_SCL I2C1_SDA	PD8 PD9 PD10 PD11 PD12 PD13 PD14 PD15 PC6 PC7 PC8 PC9 PA8 PA9 PA10 PA11 PA12 PA13 (JTMS-SWDIO) Vcap_2 Vss_2 Vdd_2 PA14 (JTCK-SWCLK) PA15 (JTDI) PC10 PC11 PC12 PD0 PD1 PD2 PD3 PD4 PD5 PD6 PD7 PB3 (JTDO/TRACESWO) PB4 (NJTRST) PB5 PB6 PB7 BOOT0 PB8 PB9		SPI2_MOSI FSMC_D13 FSMC_D14 FSMC_D15 FSMC_CLE FSMC_ALE FSMC_A18 FSMC_D0 FSMC_D1 I2S2_MCK I2S3_MCK TIM8_CH3 I2S_CKIN MCO1 USART1_TX USART1_TX USART1_RTS JTMS-SWDIO JTCK-SWCLK JTDI SPI3_SCK UART4_RX UART5_TX FSMC_D2 FSMC_D3 TIM3_ETR FSMC_CLK FSMC_NWE FSMC_NWE FSMC_NWE FSMC_NWE FSMC_NWE FSMC_NWE FSMC_NWE TIM4_CH3 SPI2_NSS	USART3_TX USART3_RX/ USART3_CK/ FSMC_A16 FSMC_A17 TIM4_CH2 TIM4_CH3 TIM4_CH4 TIM8_CH1 TIM8_CH1 TIM8_CH2 SDIO_DO MCO2 USART1_CK TIM1_CH3 CAN1_RX CAN1_TX SPI3_MISO SDIO_CK CAN1_TX UART5_RX USART2_CTS USART2_RTS USART2_TX USART2_RX FSMC_NE1 TRACESWO SPI3_MISO SPI3_MISO SDIO_D4 I2S2_WS	USART3_CTS TIM4_CH1 SDIO_D6 SDIO_D7 TIM3_CH3 TIM8_CH4 TIM1_CH1 I2C3_SMBA OTG_FS_ID TIM1_CH4 TIM1_ETR I2S3_WS UART4_TX SDIO_D3 DCMI_D9 SDIO_CMD FSMC_NCE2 SPI3_SCK TIM3_CH1 OTG_HS_ULPI_D7 CAN2_TX DCMI_VSYNC TIM10_CH1 TIM4_CH4	USART3_RTS USART6_TX USART6_RX USART6_CK SDIO_D1 I2C3_SCL DCMI_D0 DCMI_D1 OTG_FS_DM OTG_FS_DM OTG_FS_DP TIM2_CH1_ETR SDIO_D2 DCMI_D4 SPI3_MOSI I2S3_CK SPI1_MISO ETH_PPS_OUT DCMI_D1 USART1_RX DCMI_D6	TIM12_CH2 DCMI_D0 DCMI_D1 DCMI_D2 I2C3_SDA OTG_FS_SOF SPI1_NSS DCMI_D8 USART3_RX I2S3_SD TIM2_CH2 I2S3ext_SD TIM3_CH2 USART1_TX TIM4_CH2 ETH_MII_TXD3	TIM3_CH1 TIM3_CH2 DCMI_D3 USART3_TX I2S3ext_SD USART3_CK SPI1_SCK	TIM3_CH4 SPI3_MOSI				