STM32F4 Pinout

		Draigat		I	Ī									
		Project												
		Pin												
		Name												
	•	and												
	100	Functio	u	, l_										
STM32F4 Pin	-QFP100	n	Notes	Fund	` '	Alternate functions (2)								
PA11	7 0	PA11-OTG_FS_		PA1		USART1_CTS	CAN1 RX	TIM1_CH4	OTG_FS_DM					
PA12	71	PA12-OTG FS		PA12		USART1 RTS		TIM1_ETR	OTG_FS_DP					
IAIZ	7.1	1 A 12-0 1 0_1 0_	_Di	1 7 12		OOAKTI_KTO	OAIVI_IX	TIIVIT_ETIX	010_10_b1					
GND		GND1												
GND		GND2												
VDD		VDD1												
VDD		VDD2												
GND		GND3												
NRST	14	NRST		NRS	ST									
PC1	16	PC1-ADC123_II	5			ETH MDC	ADC123 IN11							
PC0	15	PC0-OTG FS	5			_	ADC123 IN10							
PC3	18	PC3-MIC_PDM	5	PC3	3	SPI2_MOSI	12S2_SD	OTG_HS_ULPI_NXT	ETH_MII_TX_CLK	ADC123_IN13				
PC2	17	PC2-ADC123_II	5	PC2	2	SPI2_MISO	OTG_HS_ULPI_DIR	TH_MII_TXD2	I2S2ext_SD	ADC123_IN12				
PA1	24	PA1-USART4_F	5	PA1		USART2_RTS	USART4_RX	ETH_RMII_REF_CLK	ETH_MII_RX_CLK	TIM5_CH2	TIMM2_CH2	ADC123_IN1		
PA0-WKUP	23	PA0-WKUP-US	6,	5 PA0-	-WKUP	USART2_CTS	USART4_TX	ETH_MII_CRS	TIM2_CH1_ETR	TIM5_CH1	TIM8_ETR	ADC123_IN0	WKUP	
PA3	26	PA3-USART2_F	5	PA3	3	USART2_RX	TIM5_CH4	TIM9_CH2	TIM2_CH4	OTG_HS_ULPI_D0	ETH_MII_COL	ADC123_IN3		
PA2	25	PA2-USART2_	5	PA2	2	USART2_TX	TIM5_CH3	TIM9_CH1	TIM2_CH3	ETH_MDIO	ADC123_IN2			
PA5	30	PA5-SPI1_SCK	5	PA5	5	SPI1_SCK	OTG_HS_ULPI_CK	TIM2_CH1_ETR	TIM8_CHIN	ADC12_IN5	DAC2_OUT			
PA4	29	PA4-I2S3_WS	5	PA4	ļ	SPI1_NSS	SPI3_NSS	USART2_CK	DCMI_HSYNC	OTG_HS_SOF	12S3_WS	ADC12_IN4	DAC1_OUT	
PA7	32	PA7-SPI1_MOS	5	PA7	7	SPI1_MOSI	TIM8_CH1N	TIM14_CH1	TIM3_CH2	ETH_MII_RX_DV	TIM1_CH1	NRMII_CRS_DV	ADC12_IN7	
PA6	31	PA6-SPI1_MISO	5	PA6	6	SPI1_MISO	TIM8_BKIN	TIM13_CH1	DCMI_PIXCLK	TIM3_CH1	TIM1_BKIN	ADC12_IN6		
PC5	34	PC5-ADC12_IN	5	PC5	5	ETH_RMII_RX_D1	ETH_MII_RX_D1	ADC12_IN15						
PC4	33	PC4-ADC12_IN	5	PC4	1	ETH_RMII_RX_D0	ETH_MII_RX_D0	ADC12_IN14						
PB1	36	PB1-ADC12_IN	5	PB1		TIM3_CH4	TIM8_CH3N	OTG_HS_ULPI_D2	ETH_MII_RXD3	OTG_HS_INTN	TIM1_CH3N	ADC12_IN9		
PB0	35	PB0-ADC12_IN	5	PB0)	TIM3_CH3	TIM8_CH2N	OTG_HS_ULPI_D1	ETH_MII_RXD2	TIM1_CH2N	ADC12_IN8			
GND		GND4												
PB2	37	PB2-BOOT1		PB2-	2-BOOT1									
PE7	38	PE7		PE7	7	FSMC_D4	TIM1_ETR							

PEB 33 PEB PEB PEB PEB PEMC_DS TMM_CHIN				1									1		
PETO 41 PETO PETO PETO PETO PETO PENOLOGY TIMI_CHZN PETO 42 PETO PETO PETO PENOLOGY TIMI_CHZN PETO 42 PETO PETO PETO PENOLOGY TIMI_CHZN PETO 44 PETO PETO PETO PETO TIMI_CHZN PETO 45 PETO PETO PETO PETO PETO PETO PETO PETO	PE8	39	PE8		PE8	FSMC_D5	TIM1_CH1N								
PET 42	PE9	40	PE9		PE9	FSMC_D6	TIM1_CH1								
PE12	PE10	41	PE10		PE10	FSMC_D7	TIM1_CH2N								
PE13	PE11	42	PE11		PE11	FSMC_D8	TIM1_CH2								
PE14	PE12	43	PE12		PE12	FSMC_D9	TIM1_CH3N								
PE15	PE13	44	PE13		PE13	FSMC_D10	TIM1_CH3								
PB10	PE14	45	PE14		PE14	FSMC_D11	TIM1_CH4								
PB11	PE15	46	PE15		PE15	FSMC_D12	TIM1_BKIN								
PB12 51 PB12-SPI2_NSS	PB10	47	PB10-I2C2_SCL		PB10	SPI2_SCK	12S2_CK	I2C2_SCL	USART3_TX	OTG_HS_ULPI_D3	ETH_MII_RX_ER	OTG_HS_SCL	TIM2_CH3		
PB13 S2 PB13-SPI2_SCK PB13 SPI2_SCK I2S2_CK USART3_CTS TIM1_CH1N CAN2_TX TIM1_CH2N	PB11	48	PB11-I2C2_SDA		PB11	I2C2_SDA	USART3_RX	OTG_HS_ULPI_D4	ETH_RMII_TX_EN	ETH_MII_TX_EN	OTG_HS_SDA	TIM2_CH4			
PB14	PB12	51	PB12-SPI2_NS	S	PB12	SPI2_NSS	I2S2_WS	I2C2_SMBA	USART3_CK	TIM1_BKIN	CAN2_RX	OTG_HS_ULPI_D5	ETH_RMII_TXD0	ETH_MII_TXD0	OTG_HS_ID
PB15	PB13	52	PB13-SPI2_SC	K	PB13	SPI2_SCK	I2S2_CK	USART3_CTS	TIM1_CH1N	CAN2_TX	OTG_HS_ULPI_D6	ETH_RMII_TXD1	ETH_MII_TXD1	OTG_HS_VBUS	
PD8	PB14	53	PB14-SPI2_MIS	0	PB14	SPI2_MISO	TIM1_CH2N	TIM12_CH1	OTG_HS_DM	USART3_RTS	TIM8_CH2N	I2S2ext_SD			
PD9	PB15	54	PB15-SPI2_MO	SI	PB15	SPI2_MOSI	I2S2_SD	TIM1_CH3N	TIM8_CH3N	TIM12_CH2	OTG_HS_DP				
PD10 57 PD10 PD10 FSMC_D15 USART3_CK	PD8	55	PD8-USART3_	ΤΧ	PD8	FSMC_D13	USART3_TX								
PD11	PD9	56	PD9-USART3_I	RX	PD9	FSMC_D14	USART3_RX								
PD12 59 PD12-USART3 RTS PD12 FSMC_A17 TIM4_CH1 USART3 RTS PD13 60 PD13 PD13 FSMC_A18 TIM4_CH2 PD14 61 PD14 PD14 FSMC_D0 TIM4_CH3 PD15 FSMC_D1 TIM4_CH4 PD15 TIM4_CH4 TIM4_CH4 TIM4_CH4 TIM4_CH4 TIM4_CH4 TIM4_CH4 TIM4_CH4	PD10	57	PD10		PD10	FSMC_D15	USART3_CK								
PD13 60 PD13 PD13 FSMC_A18 TIM4_CH2	PD11	58	PD11-USART3	CTS	PD11	FSMC_A16	USART3_CTS								
PD14 61 PD14 PD14 FSMC_D0 TIM4_CH3 IIM4_CH3 IIM4_CH3_CH3 IIM4_CH3_CH3 IIM4_CH3_CH3 II	PD12	59	PD12-USART3	RTS	PD12	FSMC_A17	TIM4_CH1	USART3_RTS							
PD15 62 PD15 PD15 FSMC_D1 TIM4_CH4	PD13	60	PD13		PD13	FSMC_A18	TIM4_CH2								
NC NC<	PD14	61	PD14		PD14	FSMC_D0	TIM4_CH3								
GND GND5	PD15	62	PD15		PD15	FSMC_D1	TIM4_CH4								
GND GND6	NC		NC												
GND GND7	GND		GND5												
GND GND8	GND		GND6												
GND GND8															
5V 5V-1 <td>GND</td> <td></td> <td>GND7</td> <td></td>	GND		GND7												
5V 5V-2 <td>GND</td> <td></td> <td>GND8</td> <td></td>	GND		GND8												
3V 3V-1	5V		5V-1												
3V 3V-2 PH0-OSC_IN 5 PH0 OSC_IN S PH0 OSC_IN	5V		5V-2												
PH0 12 PH0-OSC_IN 5 PH0 OSC_IN	3V		3V-1												
	3V		3V-2												
	PH0	12	PH0-OSC_IN	5	PH0	OSC_IN									
PH1	PH1	13	PH1-OSC_OUT	5	PH1	OSC_OUT									
PC14 8 PC14-OSC32_I 3,5 PC14(4) OSC32_IN	PC14	8	PC14-OSC32_I	3,5	PC14(4)	OSC32_IN									
PC15 9 PC15-OSC32_0 3,5 PC15(4) OSC32_OUT	PC15	9	PC15-OSC32_0	3,5	PC15(4)	OSC32_OUT									

PE6	5	PE6		PE6	TRACED3	FSMC A22	TIM9 CH2	DCMI D7						
PC13	7	PC13	3,4	PC13(4)	RTC AF1									
PE4	3	PE4	- ,	PE4	TRACED1	FSMC_A20	DCMI_D4							
PE5	4	PE5		PE5	TRACED2	FSMC_A21	TIM9 CH1	DCMI D6						
PE2	1	PE2	1	PE2	TRACECLK	FSMC_A23	ETH_MII_TXD3							
PE3	2	PE3		PE3	TRACED0	FSMC_A19								
PE0	97	PE0		PE0	TIM4_ETR	FSMC_NBL0	DCMI_D2							
PE1	98	PE1		PE1	FSMC_NBL1	DCMI_D3								
PB8	95	PB8		PB8	TIM4_CH3	SDIO_D4	TIM10_CH1	DCMI_D6	OTG_FS_SCL	ETH_MII_TXD3	I2C1_SCL	CAN1_RX		
PB9	96	PB9-I2C1_SDA		PB9	SPI2_NSS	I2S2_WS	TIM4_CH4	TIM11_CH1	OTG_FS_SDA	SDIO_D5	DCMI_D7	I2C1_SDA	CAN1_TX	
воото	94	воото		воото	VPP									
VDD		VDD3												
PB6	92	PB6-I2C1_SCL		PB6	I2C1_SCL	TIM4_CH1	CAN2_TX	OTG_FS_INTN	DCMI_D5	USART1_TX				
PB7	93	PB7		PB7	I2C1_SDA	FSMC_NL	DCMI_VSYNC	USART1_RX	TIM4_CH2					
PB4	90	PB4-NJTRST		NJTRST	NJTRST	SPI3_MISO	TIM3_CH1	SPI1_MISO	I2S3ext_SD					
PB5	91	PB5-I2C1_SMB	<mark>3</mark> A	PB5	I2C1_SMBA	CAN2_RX	OTG_HS_ULPI_D7	ETH_PPS_OUT	TIM3_CH2	SPI1_MOSI	SPI3_MOSI	DCMI_D10	12S3_SD	
PD7	88	PD7		PD7	USART2_CK	FSMC_NE1	FSMC_NCE2							
PB3	89	PB3-JTDO		JTDO	TRACESWO	JTDO	SPI3_SCK	I2S3_CK	SPI1_SCK	TIM2_CH2				
PD5	86	PD5-OTG_FS_	OverCurrent	PD5	FSMC_NWE	USART2_TX								
PD6	87	PD6		PD6	FSMC_NWAIT	USART2_RX								
PD3	84	PD3		PD3	FSMC_CLK	USART2_CTS								
PD4	85	PD4-AUDIO_RI		PD4	FSMC_NOE	USART2_RTS								
PD1	82	PD1-CAN1_TX		PD1	FSMC_D3	CAN1_TX								
PD2	83	PD2		PD2	TIM3_ETR	UART5_RX	SDIO_CMD	DCMI_D11						
PC12	80	PC12-I2S3_SD		PC12	UART5_TX	SDIO_CK	DCMI_D9	SPI3_MOSI	12S3_SD	USART3_CK				
PD0	81	PD0-CAN1_RX		PD0	FSMC_D2	CAN1_RX								
PC10	78	PC10-I2S3_CK		PC10	SPI3_SCK	I2S3_CK	UART4_TX	SDIO_D2	USART3_TX	DCMI_D8				
PC11	79	PC11		PC11	UART4_RX	SPI3_MISO	SDIO_D3	DCMI_D4	USART3_RX	I2S3ext_SD				
PA14	76	PA14-JTCK-SWCLK		JTCK-SWCLK	JTCK-SWCLK									
PA15	77	PA15-JTDI		JTDI	JTDI	SPI3_NSS	12S3_WS	TIM2_CH1_ETR	SPI1_NSS					
PA10	69	PA10-OTG_FS	_ID	PA10	USART1_RX	TIM1_CH3	OTG_FS_ID	DCMI_D1						
PA13	72	PA13-JTMS-SWDIO		JTMS-SWDIO	JTMS-SWDIO									
PA8	67	PA8-I2C3_SCL		PA8	MCO1	USART1_CK	TIM1_CH1	I2C3_SCL	OTG_FS_SOF					
PA9	68	PA9-OTG_FS_	VBUS	PA9	USART1_TX	TIM1_CH2	I2C3_SMBA	DCMI_D0	OTG_FS_VBUS					
PC8	65	PC8		PC8	TIM8_CH3	SDIO_D0	TIM3_CH3	USART6_CK	DCMI_D2					
PC9	66	PC9-I2C3_SDA		PC9	I2S_CKIN	MCO2	TIM8_CH4	SDIO_D1	DCMI_D3	TIM3_CH4	I2C3_SDA			

PC6	63	PC6	PC6	I2S2_MCK	TIM8_CH1	SDIO_D6	USART6_TX	DCMI_D0	TIM3_CH1			
PC7	64	PC7-I2S3_MCK	PC7	I2S3_MCK	TIM8_CH2	SDIO_D7	USART6_RX	DCMI_D1	TIM3_CH2			
GND		GND9										
GND		GND10									·	

Pin numbe	Function
PB6	COM1 TX
PB7	COM1 RX
PA2	COM2 TX
PA3	COM2 RX
PD8	COM3 TX
PD9	COM3 RX
PA0	COM4 TX
PA1	COM4 RX
PD5	COM5 TX
PD6	COM5 RX
PC6	COM6 RX
PC7	COM6 TX
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