			Project Pin														
STM32F4 Pin	Discovery F4 Pin	.QFP100	Name and Function	Votes	Discovery F4 Usage	I/O Level	Function (1)	Alternate functions (2)									
PA11	CN5 (USB)	70	PA11-OTG_FS_DM		USB-FS	FT	PA11	USART1_CTS	CAN1_RX	TIM1_CH4	OTG_FS_DM						
PA12 PA9	CN5 (USB) P2.44	71 68	PA12-OTG_FS_DP PA9-OTG_FS_VBUS		USB-FS USB-FS	FT FT	PA12 PA9	USART1_RTS USART1_TX	CAN1_TX TIM1_CH2	TIM1_ETR I2C3_SMBA	OTG_FS_DP DCMI_D0	OTG_FS_VBUS					
PA10	P2.41	69	PA10-OTG_FS_ID		USB-FS	FT	PA10	USART1_RX	TIM1_CH3	OTG_FS_ID	DCMI_D1						
PC0 PD5	P1.8 P2.29	15 86	PC0-OTG_FS_Power PD5-OTG_FS_OverCurrent	5	USB-FS USB-FS	FT FT	PC0 PD5	DTG_HS_ULPI_STF FSMC_NWE	ADC123_IN10 USART2_TX								
PA2 PA3	P1.14 P1.13	25 26	PA2-USART2_TX PA3-USART2_RX	5 5		FT	PA2 PA3	USART2_TX USART2_RX	TIM5_CH3 TIM5_CH4	TIM9_CH1 TIM9_CH2	TIM2_CH3 TIM2_CH4	OTG HS ULPI DO	ADC123_IN2 ETH_MII_COL	ADC123_IN3			
PD8	P1.40	55	PD8-USART3_TX			FT	PD8	FSMC_D13	USART3_TX								
PD9 PD11	P1.41 P1.43	56 58	PD9-USART3_RX PD11-USART3_CTS			FT FT	PD9 PD11	FSMC_D14 FSMC_A16	USART3_RX USART3_CTS								
PD12	P1.44	59	PD12-USART3_RTS		LED Green	FT	PD12	FSMC_A17	TIM4_CH1	USART3_RTS							
PA0-WKUP PA1	P1.12 P1.11	23 24	PA0-WKUP-USART4_TX PA1-USART4_RX	6,5 5	User Button	FT	PA0-WKUP PA1	USART2_CTS USART2_RTS	USART4_TX USART4_RX	ETH_MII_CRS ETH_RMII_REF_CLF	TIM2_CH1_ETR	TIM5_CH1 TIM5_CH2	TIM8_ETR TIMM2_CH2	ADC123_IN0 ADC123_IN1	WKUP		
170			THE GOVERNMENT OF THE PARTY OF	Ů			1711	OG/ATTE_HTO			ETT_IMI_TO_OEK	TIMO_GTILE	THINNE_ONE	715 0 155_111			
PC7 PC10	P2.48 P2.37	64 78	PC7-I2S3_MCK PC10-I2S3_CK		DAC	FT FT	PC7 PC10	I2S3_MCK SPI3_SCK	TIM8_CH2 I2S3_CK	SDIO_D7 UART4_TX	USART6_RX SDIO D2	DCMI_D1 USART3_TX	TIM3_CH2 DCMI_D8				
PC12	P2.35	80	PC12-I2S3_SD		DAC	FT	PC12	UART5_TX	SDIO_CK	DCMI_D9	SPI3_MOSI	12S3_SD	USART3_CK				
PA4 PD4	P1.16 P2.32	29 85	PA4-I2S3_WS PD4-AUDIO_RESET_N	5	DAC DAC-Reset-N	FT FT	PA4 PD4	SPI1_NSS FSMC_NOE	SPI3_NSS USART2_RTS	USART2_CK	DCMI_HSYNC	OTG_HS_SOF	12S3_WS	ADC12_IN4	DAC1_OUT		
PD4	P2.32	00	FD4-AUDIO_RESET_IN		DAC-neset-IV	-	FD4	F3MC_NOE	USANIZ_NIS								
PD0	P2.36	81	PD0-CAN1_RX			FT FT	PD0	FSMC_D2	CAN1_RX								
PD1	P2.33	82	PD1-CAN1_TX			FI	PD1	FSMC_D3	CAN1_TX								
PB0	P1.22	35	PB0-ADC12_IN8	5		FT	PB0	TIM3_CH3	TIM8_CH2N	OTG_HS_ULPI_D1	ETH_MII_RXD2	TIM1_CH2N	ADC12_IN8				
PB1 PC1	P1.21 P1.7	36 16	PB1-ADC12_IN9 PC1-ADC123_IN11	5 5		FT FT	PB1 PC1	TIM3_CH4 ETH_MDC	TIM8_CH3N ADC123_IN11	OTG_HS_ULPI_D2	ETH_MII_RXD3	OTG_HS_INTN	TIM1_CH3N	ADC12_IN9			
PC2	P1.10	17	PC2-ADC123_IN12	5		FT	PC2	SPI2_MISO	DTG_HS_ULPI_DII	TH_MII_TXD2	I2S2ext_SD	ADC123_IN12					
PC4 PC5	P1.20 P1.19	33 34	PC4-ADC12_IN14 PC5-ADC12_IN15	5 5		FT FT	PC4 PC5	ETH_RMII_RX_D0 ETH_RMII_RX_D1		ADC12_IN14 ADC12_IN15							
PA5 PA6	P1.15 P1.18	30 31	PA5-SPI1_SCK PA6-SPI1_MISO	5 5	MEMS SCLK MEMS MISO	FT FT	PA5 PA6	SPI1_SCK SPI1_MISO	DTG_HS_ULPI_CF TIM8_BKIN	TIM2_CH1_ETR TIM13_CH1	TIM8_CHIN DCMI_PIXCLK	ADC12_IN5 TIM3_CH1	TIM1 BKIN	ADC12_IN6			
PA7	P1.17	32	PA7-SPI1_MOSI	5	MEMS MOSI	FT	PA7	SPI1_MOSI	TIM8_CH1N	TIM14_CH1	TIM3_CH2	ETH_MII_RX_DV	TIM1_CH1	NRMII_CRS_DV	ADC12_IN7		
PB13	P1.37	52 53	PB13-SPI2_SCK			FT FT	PB13 PB14	SPI2_SCK	I2S2_CK TIM1_CH2N	USART3_CTS TIM12_CH1	TIM1_CH1N OTG_HS_DM	CAN2_TX USART3_RTS	OTG_HS_ULPI_D6 TIM8_CH2N	ETH_RMII_TXD1 I2S2ext_SD	ETH_MII_TXD1	OTG_HS_VBUS	-
PB14 PB15	P1.38 P1.39	54	PB14-SPI2_MISO PB15-SPI2_MOSI			FT	PB14 PB15	SPI2_MISO SPI2_MOSI	I2S2_SD	TIM12_CH1	TIM8_CH3N	TIM12_CH2	OTG_HS_DP	I2S2ext_SD			
PB12	P1.36	51	PB12-SPI2_NSS			FT	PB12	SPI2_NSS	12S2_WS	I2C2_SMBA	USART3_CK	TIM1_BKIN	CAN2_RX	OTG_HS_ULPI_D5	ETH_RMII_TXD0	ETH_MII_TXD0	OTG_HS_ID
PA13	P2.42	72	PA13-JTMS-SWDIO			FT	JTMS-SWDIO	JTMS-SWDIO									
PA14	P2.39	76	PA14-JTCK-SWCLK			FT	JTCK-SWCLK	JTCK-SWCLK									
PA15 PB3	P2.40 P2.28	77 89	PA15-JTDI PB3-JTDO			FT	JTDO	JTDI TRACESWO	SPI3_NSS JTDO	I2S3_WS SPI3_SCK	TIM2_CH1_ETR I2S3_CK	SPI1_NSS SPI1_SCK	TIM2_CH2				
PB4	P2.25	90	PB4-NJTRST			FT	NJTRST	NJTRST	SPI3_MISO	TIM3_CH1	SPI1_MISO	I2S3ext_SD	11112_0112				
PB6	P2.23	92	PB6-I2C1 SCL		DAC I2C	FT	PB6	I2C1_SCL	TIM4_CH1	CAN2 TX	OTG FS INTN	DCMI_D5	USART1 TX				
PB9	P2.23	96	PB9-I2C1_SDA		DAC I2C	FT	PB9	SPI2_NSS	12S2_WS	TIM4_CH4	TIM11_CH1	OTG_FS_SDA	SDIO_D5	DCMI_D7	I2C1_SDA	CAN1_TX	
PB10	P1.34	47	PB10-I2C2_SCL		Also MIC CLK	FT FT	PB10	SPI2_SCK	12S2_CK	I2C2_SCL	USART3_TX	OTG_HS_ULPI_D3	ETH_MII_RX_ER	OTG_HS_SCL	TIM2_CH3		
PB11 PB5	P1.35 P2.26	48 91	PB11-I2C2_SDA PB5-I2C1_SMBA			FT	PB11 PB5	I2C2_SDA I2C1_SMBA	USART3_RX CAN2_RX	OTG_HS_ULPI_D4 OTG_HS_ULPI_D7	ETH_RMII_TX_EN ETH_PPS_OUT	ETH_MII_TX_EN TIM3_CH2	OTG_HS_SDA SPI1_MOSI	TIM2_CH4 SPI3_MOSI	DCMI_D10	12S3_SD	
PA8	P2.43	67	PA8-I2C3_SCL			FT	PA8	MCO1	USART1_CK	TIM1_CH1	I2C3_SCL	OTG_FS_SOF					
PC9	P2.46	66	PC9-I2C3_SDA			FT	PC9	I2S_CKIN	MCO2	TIM8_CH4	SDIO_D1	DCMI_D3	TIM3_CH4	I2C3_SDA			
PD13	P1.45	60	PD13		LED Orange	FT	PD13	FSMC_A18	TIM4_CH2								
PD14 PD15	P1.46 P1.47	61 62	PD14 PD15		LED Red LED Blue	FT	PD14 PD15	FSMC_D0 FSMC_D1	TIM4_CH3 TIM4_CH4								
PC3	P1.9	18	PC3-MIC_PDM	5	MIC PDM	FT	PC3	SPI2_MOSI	12S2_SD	OTG_HS_ULPI_NXT	ETH_MII_TX_CLK	ADC123_IN13					
PB7	P2.24	93	PB7			FT	PB7	I2C1_SDA	FSMC_NL	DCMI_VSYNC	USART1_RX	TIM4_CH2					
PB8	P2.19	95	PB8			FT	PB8	TIM4_CH3	SDIO_D4	TIM10_CH1	DCMI_D6	OTG_FS_SCL	ETH_MII_TXD3	I2C1_SCL	CAN1_RX		
PC11 PC13	P2.38 P2.12	79 7	PC11 PC13	3,4		FT FT	PC11 PC13(4)	UART4_RX RTC_AF1	SPI3_MISO	SDIO_D3	DCMI_D4	USART3_RX	I2S3ext_SD				
PC13	P2.47	63	PC6	3,4		FT	PC6	I2S2_MCK	TIM8_CH1	SDIO_D6	USART6_TX	DCMI_D0	TIM3_CH1				
PC8 PD2	P2.45 P2.34	65 83	PC8 PD2			FT FT	PC8 PD2	TIM8_CH3 TIM3_ETR	SDIO_D0 UART5_RX	TIM3_CH3 SDIO CMD	USART6_CK DCMI_D11	DCMI_D2					
PD2 PD3	P2.34 P2.31	84	PD3			FT	PD3	FSMC_CLK	USART2_CTS	- CDIO_CIVID-	- DOMI-DIT						
PD6	P2.30	87	PD6			FT FT	PD6	FSMC_NWAIT USART2_CK	USART2_RX	FSMC_NCE2							
PD7 PD10	P2.27 P1.42	88 57	PD7 PD10			FT	PD7 PD10	FSMC_D15	FSMC_NE1 USART3_CK	T SIVIO_INUE2							
PE0	P2.17	97	PE0		MEMS INT1	FT	PE0	TIM4_ETR	FSMC_NBL0	DCMI_D2							
PE1 PE2	P2.18 P2.15	98	PE1 PE2		MEMS INT2	FT FT	PE1 PE2	FSMC_NBL1 TRACECLK	DCMI_D3 FSMC_A23	ETH_MII_TXD3							
PE3	P2.16	2	PE3		MEMS CS_I2C_SPI	FT	PE3	TRACED0	FSMC_A19								
PE4 PE5	P2.13 P2.14	3	PE4 PE5			FT	PE4 PE5	TRACED1 TRACED2	FSMC_A20 FSMC_A21	DCMI_D4 TIM9_CH1	DCMI_D6						
PE6	P2.11	5	PE6			FT	PE6	TRACED3	FSMC_A22	TIM9_CH2	DCMI_D7						
PE7 PE8	P1.25 P1.26	38 39	PE7 PE8			FT	PE7 PE8	FSMC_D4 FSMC_D5	TIM1_ETR TIM1_CH1N								
PE9	P1.27	40	PE9			FT	PE9	FSMC_D6	TIM1_CH1								
PE10 PE11	P1.28 P1.29	41 42	PE10 PE11			FT FT	PE10 PE11	FSMC_D7 FSMC_D8	TIM1_CH2N TIM1_CH2								
PE11	P1.29 P1.30	43	PE12			FT	PE12	FSMC_D9	TIM1_CH3N								
PE13	P1.31	44	PE13			FT	PE13	FSMC_D10	TIM1_CH3								
PE14 PE15	P1.32 P1.33	45 46	PE14 PE15			FT FT	PE14 PE15	FSMC_D11 FSMC_D12	TIM1_CH4 TIM1_BKIN								
		П															
PH0	P2.7	12	PH0-OSC_IN	5		FT	PH0	OSC_IN									
PH1	P2.8	13	PH1-OSC_OUT	5		FT	PH1	OSC_OUT									
PC14 PC15	P2.9 P2.10	8	PC14-OSC32_IN PC15-OSC32_OUT	3,5 3,5		FT FT	PC14 ₍₄₎ PC15 ₍₄₎	OSC32_IN OSC32_OUT									
F010	CZ.10		. 5.5 05002_001	٥,٥		<u> </u>	. 013(4)	55502_001									
BOOT0	P2.21	94 37	BOOT0 PB2-BOOT1			FT	BOOT0 PB2-BOOT1	Vpp									
PB2 NRST	P1.24 P1.6	14	NRST		Reset Button		NRST										