

Table 6. STM32F40x pin and ball definitions

Pin number					Pin name (function after reset) ⁽¹⁾	Pin type	I / O structure	Notes	Alternate functions	Additional functions
LQFP64	LQFP100	LQFP144	UFBGA176	LQFP176						
-	1	1	A2	1	PE2	I/O	FT		TRACECLK/ FSMC_A23 / ETH_MII_TXD3 / EVENTOUT	
-	2	2	A1	2	PE3	I/O	FT		TRACED0/FSMC_A19 / EVENTOUT	
-	3	3	B1	3	PE4	I/O	FT		TRACED1/FSMC_A20 / DCMI_D4/ EVENTOUT	
-	4	4	B2	4	PE5	I/O	FT		TRACED2 / FSMC_A21 / TIM9_CH1 / DCMI_D6 / EVENTOUT	
-	5	5	B3	5	PE6	I/O	FT		TRACED3 / FSMC_A22 / TIM9_CH2 / DCMI_D7 / EVENTOUT	
1	6	6	C1	6	V _{BAT}	S				
-	-	-	D2	7	PI8	I/O	FT	(2)(3)	EVENTOUT	RTC_AF2
2	7	7	D1	8	PC13	I/O	FT	(2)(3)	EVENTOUT	RTC_AF1
3	8	8	E1	9	PC14-OSC32_IN (PC14)	I/O	FT	(2)(3)	EVENTOUT	OSC32_IN ⁽⁴⁾
4	9	9	F1	10	PC15- OSC32_OUT (PC15)	I/O	FT	(2)(3)	EVENTOUT	OSC32_OUT ⁽⁴⁾
-	-	-	D3	11	PI9	I/O	FT		CAN1_RX / EVENTOUT	
-	-	-	E3	12	PI10	I/O	FT		ETH_MII_RX_ER / EVENTOUT	
-	-	-	E4	13	PI11	I/O	FT		OTG_HS_ULPI_DIR / EVENTOUT	
-	-	-	F2	14	V _{SS}	S				
-	-	-	F3	15	V _{DD}	S				
-	-	10	E2	16	PF0	I/O	FT		FSMC_A0 / I2C2_SDA / EVENTOUT	
-	-	11	H3	17	PF1	I/O	FT		FSMC_A1 / I2C2_SCL / EVENTOUT	
-	-	12	H2	18	PF2	I/O	FT		FSMC_A2 / I2C2_SMBA / EVENTOUT	
-	-	13	J2	19	PF3	I/O	FT	(4)	FSMC_A3/EVENTOUT	ADC3_IN9
-	-	14	J3	20	PF4	I/O	FT	(4)	FSMC_A4/EVENTOUT	ADC3_IN14
-	-	15	K3	21	PF5	I/O	FT	(4)	FSMC_A5/EVENTOUT	ADC3_IN15

Table 6. STM32F40x pin and ball definitions (continued)

Pin number					Pin name (function after reset) ⁽¹⁾	Pin type	I/O structure	Notes	Alternate functions	Additional functions
LQFP64	LQFP100	LQFP144	UFBGA176	LQFP176						
-	10	16	G2	22	V _{SS}	S				
-	11	17	G3	23	V _{DD}	S				
-	-	18	K2	24	PF6	I/O	FT	(4)	TIM10_CH1 / FSMC_NIORD/ EVENTOUT	ADC3_IN4
-	-	19	K1	25	PF7	I/O	FT	(4)	TIM11_CH1/FSMC_NREG/ EVENTOUT	ADC3_IN5
-	-	20	L3	26	PF8	I/O	FT	(4)	TIM13_CH1 / FSMC_NIOWR/ EVENTOUT	ADC3_IN6
-	-	21	L2	27	PF9	I/O	FT	(4)	TIM14_CH1 / FSMC_CD/ EVENTOUT	ADC3_IN7
-	-	22	L1	28	PF10	I/O	FT	(4)	FSMC_INTR/ EVENTOUT	ADC3_IN8
5	12	23	G1	29	PH0-OSC_IN (PH0)	I/O	FT		EVENTOUT	OSC_IN ⁽⁴⁾
6	13	24	H1	30	PH1-OSC_OUT (PH1)	I/O	FT		EVENTOUT	OSC_OUT ⁽⁴⁾
7	14	25	J1	31	NRST	I/O	RST			
8	15	26	M2	32	PC0	I/O	FT	(4)	OTG_HS_ULPI_STP/ EVENTOUT	ADC123_IN10
9	16	27	M3	33	PC1	I/O	FT	(4)	ETH_MDC/ EVENTOUT	ADC123_IN11
10	17	28	M4	34	PC2	I/O	FT	(4)	SPI2_MISO / OTG_HS_ULPI_DIR / TH MII_TXD2 /I2S2ext_SD/ EVENTOUT	ADC123_IN12
11	18	29	M5	35	PC3	I/O	FT	(4)	SPI2_MOSI / I2S2_SD / OTG_HS_ULPI_NXT / ETH_MII_TX_CLK/ EVENTOUT	ADC123_IN13
-	19	30	G3	36	V _{DD}	S				
12	20	31	M1	37	V _{SSA}	S				
-	-	-	N1	-	V _{REF-}	S				
-	21	32	P1	38	V _{REF+}	S				
13	22	33	R1	39	V _{DDA}	S				

Table 6. STM32F40x pin and ball definitions (continued)

Pin number					Pin name (function after reset) ⁽¹⁾	Pin type	I/O structure	Notes	Alternate functions	Additional functions
LQFP64	LQFP100	LQFP144	UFBGA176	LQFP176						
14	23	34	N3	40	PA0-WKUP (PA0)	I/O	FT	(5)	USART2_CTS/ UART4_TX/ ETH_MII_CRS / TIM2_CH1_ETR/ TIM5_CH1 / TIM8_ETR/ EVENTOUT	ADC123_IN0/WKUP ⁽⁴⁾
15	24	35	N2	41	PA1	I/O	FT	(4)	USART2_RTS / UART4_RX/ ETH_RMII_REF_CLK / ETH_MII_RX_CLK / TIM5_CH2 / TIM2_CH2/ EVENTOUT	ADC123_IN1
16	25	36	P2	42	PA2	I/O	FT	(4)	USART2_TX/TIM5_CH3 / TIM9_CH1 / TIM2_CH3 / ETH_MDIO/ EVENTOUT	ADC123_IN2
-	-	-	F4	43	PH2	I/O	FT		ETH_MII_CRS/EVENTOUT	
-	-	-	G4	44	PH3	I/O	FT		ETH_MII_COL/EVENTOUT	
-	-	-	H4	45	PH4	I/O	FT		I2C2_SCL / OTG_HS_ULPI_NXT/ EVENTOUT	
-	-	-	J4	46	PH5	I/O	FT		I2C2_SDA/ EVENTOUT	
17	26	37	R2	47	PA3	I/O	FT	(4)	USART2_RX/TIM5_CH4 / TIM9_CH2 / TIM2_CH4 / OTG_HS_ULPI_D0 / ETH_MII_COL/ EVENTOUT	ADC123_IN3
18	27	38	-	48	V _{SS}	S				
			L4	-	BYPASS_REG	I	FT			
19	28	39	K4	49	V _{DD}	S				
20	29	40	N4	50	PA4	I/O	TTa	(4)	SPI1_NSS / SPI3_NSS / USART2_CK / DCMI_HSYNC / OTG_HS_SOF/ I2S3_WS/ EVENTOUT	ADC12_IN4 /DAC1_OUT
21	30	41	P4	51	PA5	I/O	TTa	(4)	SPI1_SCK/ OTG_HS_ULPI_CK / TIM2_CH1_ETR/ TIM8_CHIN/ EVENTOUT	ADC12_IN5/DAC2_OUT
22	31	42	P3	52	PA6	I/O	FT	(4)	SPI1_MISO / TIM8_BKIN/TIM13_CH1 / DCMI_PIXCLK/TIM3_CH1 / TIM1_BKIN/ EVENTOUT	ADC12_IN6

Table 6. STM32F40x pin and ball definitions (continued)

Pin number					Pin name (function after reset) ⁽¹⁾	Pin type	I/O structure	Notes	Alternate functions	Additional functions
LQFP64	LQFP100	LQFP144	UFBGA176	LQFP176						
23	32	43	R3	53	PA7	I/O	FT	(4)	SPI1_MOSI/ TIM8_CH1N / TIM14_CH1/TIM3_CH2/ ETH_MII_RX_DV / TIM1_CH1N / RMII_CRS_DV/ EVENTOUT	ADC12_IN7
24	33	44	N5	54	PC4	I/O	FT	(4)	ETH_RMII_RX_D0 / ETH_MII_RX_D0/ EVENTOUT	ADC12_IN14
25	34	45	P5	55	PC5	I/O	FT	(4)	ETH_RMII_RX_D1 / ETH_MII_RX_D1/ EVENTOUT	ADC12_IN15
26	35	46	R5	56	PB0	I/O	FT	(4)	TIM3_CH3 / TIM8_CH2N/ OTG_HS_ULPI_D1/ ETH_MII_RXD2 / TIM1_CH2N/ EVENTOUT	ADC12_IN8
27	36	47	R4	57	PB1	I/O	FT	(4)	TIM3_CH4 / TIM8_CH3N/ OTG_HS_ULPI_D2/ ETH_MII_RXD3 / OTG_HS_INTN / TIM1_CH3N/ EVENTOUT	ADC12_IN9
28	37	48	M6	58	PB2-BOOT1 (PB2)	I/O	FT		EVENTOUT	
-	-	49	R6	59	PF11	I/O	FT		DCMI_12/ EVENTOUT	
-	-	50	P6	60	PF12	I/O	FT		FSMC_A6/ EVENTOUT	
-	-	51	M8	61	V _{SS}	S				
-	-	52	N8	62	V _{DD}	S				
-	-	53	N6	63	PF13	I/O	FT		FSMC_A7/ EVENTOUT	
-	-	54	R7	64	PF14	I/O	FT		FSMC_A8/ EVENTOUT	
-	-	55	P7	65	PF15	I/O	FT		FSMC_A9/ EVENTOUT	
-	-	56	N7	66	PG0	I/O	FT		FSMC_A10/ EVENTOUT	
-	-	57	M7	67	PG1	I/O	FT		FSMC_A11/ EVENTOUT	
-	38	58	R8	68	PE7	I/O	FT		FSMC_D4/TIM1_ETR/ EVENTOUT	
-	39	59	P8	69	PE8	I/O	FT		FSMC_D5/ TIM1_CH1N/ EVENTOUT	
-	40	60	P9	70	PE9	I/O	FT		FSMC_D6/TIM1_CH1/ EVENTOUT	
-	-	61	M9	71	V _{SS}	S				

Table 6. STM32F40x pin and ball definitions (continued)

Pin number					Pin name (function after reset) ⁽¹⁾	Pin type	I/O structure	Notes	Alternate functions	Additional functions
LQFP64	LQFP100	LQFP144	UFBGA176	LQFP176						
-	-	62	N9	72	V _{DD}	S				
-	41	63	R9	73	PE10	I/O	FT		FSMC_D7/TIM1_CH2N/ EVENTOUT	
-	42	64	P10	74	PE11	I/O	FT		FSMC_D8/TIM1_CH2/ EVENTOUT	
-	43	65	R10	75	PE12	I/O	FT		FSMC_D9/TIM1_CH3N/ EVENTOUT	
-	44	66	N11	76	PE13	I/O	FT		FSMC_D10/TIM1_CH3/ EVENTOUT	
-	45	67	P11	77	PE14	I/O	FT		FSMC_D11/TIM1_CH4/ EVENTOUT	
-	46	68	R11	78	PE15	I/O	FT		FSMC_D12/TIM1_BKIN/ EVENTOUT	
29	47	69	R12	79	PB10	I/O	FT		SPI2_SCK / I2S2_CK / I2C2_SCL/ USART3_TX / OTG_HS_ULPI_D3 / ETH_MII_RX_ER / TIM2_CH3/ EVENTOUT	
30	48	70	R13	80	PB11	I/O	FT		I2C2_SDA/USART3_RX/ OTG_HS_ULPI_D4 / ETH_RMII_TX_EN/ ETH_MII_TX_EN / TIM2_CH4/ EVENTOUT	
31	49	71	M10	81	V _{CAP_1}	S				
32	50	72	N10	82	V _{DD}	S				
-	-	-	M11	83	PH6	I/O	FT		I2C2_SMBA / TIM12_CH1 / ETH_MII_RXD2/ EVENTOUT	
-	-	-	N12	84	PH7	I/O	FT		I2C3_SCL / ETH_MII_RXD3/ EVENTOUT	
-	-	-	M12	85	PH8	I/O	FT		I2C3_SDA / DCMI_HSYNC/ EVENTOUT	
-	-	-	M13	86	PH9	I/O	FT		I2C3_SMBA / TIM12_CH2/ DCMI_D0/ EVENTOUT	
-	-	-	L13	87	PH10	I/O	FT		TIM5_CH1 / DCMI_D1/ EVENTOUT	
-	-	-	L12	88	PH11	I/O	FT		TIM5_CH2 / DCMI_D2/ EVENTOUT	

Table 6. STM32F40x pin and ball definitions (continued)

Pin number					Pin name (function after reset) ⁽¹⁾	Pin type	I/O structure	Notes	Alternate functions	Additional functions
LQFP64	LQFP100	LQFP144	UFBGA176	LQFP176						
-	-	-	K12	89	PH12	I/O	FT		TIM5_CH3 / DCMI_D3/ EVENTOUT	
-	-	-	H12	90	V _{SS}	S				
-	-	-	J12	91	V _{DD}	S				
33	51	73	P12	92	PB12	I/O	FT		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/ EVENTOUT	
34	52	74	P13	93	PB13	I/O	FT		SPI2_SCK / I2S2_CK / USART3_CTS/ TIM1_CH1N / CAN2_TX / OTG_HS_ULPI_D6 / ETH_RMII_TXD1 / ETH_MII_TXD1/ EVENTOUT	OTG_HS_VBUS
35	53	75	R14	94	PB14	I/O	FT		SPI2_MISO/ TIM1_CH2N / TIM12_CH1 / OTG_HS_DM/ USART3_RTS / TIM8_CH2N/I2S2ext_SD/ EVENTOUT	
36	54	76	R15	95	PB15	I/O	FT		SPI2_MOSI / I2S2_SD/ TIM1_CH3N / TIM8_CH3N / TIM12_CH2 / OTG_HS_DP/ EVENTOUT	
-	55	77	P15	96	PD8	I/O	FT		FSMC_D13 / USART3_TX/ EVENTOUT	
-	56	78	P14	97	PD9	I/O	FT		FSMC_D14 / USART3_RX/ EVENTOUT	
-	57	79	N15	98	PD10	I/O	FT		FSMC_D15 / USART3_CK/ EVENTOUT	
-	58	80	N14	99	PD11	I/O	FT		FSMC_CLE / FSMC_A16/USART3_CTS/ EVENTOUT	
-	59	81	N13	100	PD12	I/O	FT		FSMC_ALE/ FSMC_A17/TIM4_CH1 / USART3_RTS/ EVENTOUT	

Table 6. STM32F40x pin and ball definitions (continued)

Pin number					Pin name (function after reset) ⁽¹⁾	Pin type	I/O structure	Notes	Alternate functions	Additional functions
LQFP64	LQFP100	LQFP144	UFBGA176	LQFP176						
-	60	82	M15	101	PD13	I/O	FT		FSMC_A18/TIM4_CH2/ EVENTOUT	
-	-	83	-	102	V _{SS}	S				
-	-	84	J13	103	V _{DD}	S				
-	61	85	M14	104	PD14	I/O	FT		FSMC_D0/TIM4_CH3/ EVENTOUT/ EVENTOUT	
-	62	86	L14	105	PD15	I/O	FT		FSMC_D1/TIM4_CH4/ EVENTOUT	
-	-	87	L15	106	PG2	I/O	FT		FSMC_A12/ EVENTOUT	
-	-	88	K15	107	PG3	I/O	FT		FSMC_A13/ EVENTOUT	
-	-	89	K14	108	PG4	I/O	FT		FSMC_A14/ EVENTOUT	
-	-	90	K13	109	PG5	I/O	FT		FSMC_A15/ EVENTOUT	
-	-	91	J15	110	PG6	I/O	FT		FSMC_INT2/ EVENTOUT	
-	-	92	J14	111	PG7	I/O	FT		FSMC_INT3/USART6_CK/ EVENTOUT	
-	-	93	H14	112	PG8	I/O	FT		USART6_RTS / ETH_PPS_OUT/ EVENTOUT	
-	-	94	G12	113	V _{SS}	S				
-	-	95	H13	114	V _{DD}	S				
37	63	96	H15	115	PC6	I/O	FT		I2S2_MCK / TIM8_CH1/SDIO_D6 / USART6_TX / DCMI_D0/TIM3_CH1/ EVENTOUT	
38	64	97	G15	116	PC7	I/O	FT		I2S3_MCK / TIM8_CH2/SDIO_D7 / USART6_RX / DCMI_D1/TIM3_CH2/ EVENTOUT	
39	65	98	G14	117	PC8	I/O	FT		TIM8_CH3/SDIO_D0 /TIM3_CH3/ USART6_CK / DCMI_D2/ EVENTOUT	
40	66	99	F14	118	PC9	I/O	FT		I2S_CKIN/ MCO2 / TIM8_CH4/SDIO_D1 / /I2C3_SDA / DCMI_D3 / TIM3_CH4/ EVENTOUT	

Table 6. STM32F40x pin and ball definitions (continued)

Pin number					Pin name (function after reset) ⁽¹⁾	Pin type	I/O structure	Notes	Alternate functions	Additional functions
LQFP64	LQFP100	LQFP144	UFBGA176	LQFP176						
41	67	100	F15	119	PA8	I/O	FT		MCO1 / USART1_CK/ TIM1_CH1/ I2C3_SCL/ OTG_FS_SOF/ EVENTOUT	
42	68	101	E15	120	PA9	I/O	FT		USART1_TX/ TIM1_CH2 / I2C3_SMBA / DCMI_D0/ EVENTOUT	OTG_FS_VBUS
43	69	102	D15	121	PA10	I/O	FT		USART1_RX/ TIM1_CH3/ OTG_FS_ID/DCMI_D1/ EVENTOUT	
44	70	103	C15	122	PA11	I/O	FT		USART1_CTS / CAN1_RX / TIM1_CH4 / OTG_FS_DM/ EVENTOUT	
45	71	104	B15	123	PA12	I/O	FT		USART1_RTS / CAN1_TX/ TIM1_ETR/ OTG_FS_DP/ EVENTOUT	
46	72	105	A15	124	PA1 (JTMS-SWDIO)	I/O	FT		JTMS-SWDIO/ EVENTOUT	
47	73	106	F13	125	V _{CAP_2}	S				
-	74	107	F12	126	V _{SS}	S				
48	75	108	G13	127	V _{DD}	S				
-	-	-	E12	128	PH13	I/O	FT		TIM8_CH1N / CAN1_TX/ EVENTOUT	
-	-	-	E13	129	PH14	I/O	FT		TIM8_CH2N / DCMI_D4/ EVENTOUT	
-	-	-	D13	130	PH15	I/O	FT		TIM8_CH3N / DCMI_D11/ EVENTOUT	
-	-	-	E14	131	PI0	I/O	FT		TIM5_CH4 / SPI2_NSS / I2S2_WS / DCMI_D13/ EVENTOUT	
-	-	-	D14	132	PI1	I/O	FT		SPI2_SCK / I2S2_CK / DCMI_D8/ EVENTOUT	
-	-	-	C14	133	PI2	I/O	FT		TIM8_CH4 / SPI2_MISO / DCMI_D9 / I2S2ext_SD/ EVENTOUT	
-	-	-	C13	134	PI3	I/O	FT		TIM8_ETR / SPI2_MOSI / I2S2_SD / DCMI_D10/ EVENTOUT	
-	-	-	D9	135	V _{SS}	S				
-	-	-	C9	136	V _{DD}	S				

Table 6. STM32F40x pin and ball definitions (continued)

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LQFP64	LQFP100	LQFP144	UFBGA176	LQFP176						
49	76	109	A14	137	PA14 (JTCK-SWCLK)	I/O	FT		JTCK-SWCLK/ EVENTOUT	
50	77	110	A13	138	PA15 (JTDI)	I/O	FT		JTDI/ SPI3_NSS/ I2S3_WS/TIM2_CH1_ETR / SPI1_NSS / EVENTOUT	
51	78	111	B14	139	PC10	I/O	FT		SPI3_SCK / I2S3_CK/ UART4_TX/SDIO_D2 / DCMI_D8 / USART3_TX/ EVENTOUT	
52	79	112	B13	140	PC11	I/O	FT		UART4_RX/ SPI3_MISO / SDIO_D3 / DCMI_D4/USART3_RX / I2S3ext_SD/ EVENTOUT	
53	80	113	A12	141	PC12	I/O	FT		UART5_TX/SDIO_CK / DCMI_D9 / SPI3_MOSI /I2S3_SD / USART3_CK/ EVENTOUT	
-	81	114	B12	142	PD0	I/O	FT		FSMC_D2/CAN1_RX/ EVENTOUT	
-	82	115	C12	143	PD1	I/O	FT		FSMC_D3 / CAN1_TX/ EVENTOUT	
54	83	116	D12	144	PD2	I/O	FT		TIM3_ETR/UART5_RX/ SDIO_CMD / DCMI_D11/ EVENTOUT	
-	84	117	D11	145	PD3	I/O	FT		FSMC_CLK/USART12_C1S / EVENTOUT	
-	85	118	D10	146	PD4	I/O	FT		FSMC_NOE/USART2_RTS / EVENTOUT	
-	86	119	C11	147	PD5	I/O	FT		FSMC_NWE/USART2_TX/ EVENTOUT	
-	-	120	D8	148	V _{SS}	S				
-	-	121	C8	149	V _{DD}	S				
-	87	122	B11	150	PD6	I/O	FT		FSMC_NWAIT/ USART2_RX/ EVENTOUT	
-	88	123	A11	151	PD7	I/O	FT		USART2_CK/FSMC_NE1/ FSMC_NCE2/ EVENTOUT	
-	-	124	C10	152	PG9	I/O	FT		USART6_RX / FSMC_NE2/FSMC_NCE3/ EVENTOUT	

Table 6. STM32F40x pin and ball definitions (continued)

Pin number					Pin name (function after reset) ⁽¹⁾	Pin type	I/O structure	Notes	Alternate functions	Additional functions
LQFP64	LQFP100	LQFP144	UFBGA176	LQFP176						
-	-	125	B10	153	PG10	I/O	FT		FSMC_NCE4_1/ FSMC_NE3/ EVENTOUT	
-	-	126	B9	154	PG11	I/O	FT		FSMC_NCE4_2 / ETH_MII_TX_EN/ ETH_RMII_TX_EN/ EVENTOUT	
-	-	127	B8	155	PG12	I/O	FT		FSMC_NE4 / USART6_RTS/ EVENTOUT	
-	-	128	A8	156	PG13	I/O	FT		FSMC_A24 / USART6_CTS /ETH_MII_TXD0/ ETH_RMII_TXD0/ EVENTOUT	
-	-	129	A7	157	PG14	I/O	FT		FSMC_A25 / USART6_TX /ETH_MII_TXD1/ ETH_RMII_TXD1/ EVENTOUT	
-	-	130	D7	158	V _{SS}	S				
-	-	131	C7	159	V _{DD}	S				
-	-	132	B7	160	PG15	I/O	FT		USART6_CTS / DCMI_D13/ EVENTOUT	
55	89	133	A10	161	PB3 (JTDO/ TRACESWO)	I/O	FT		JTDO/ TRACESWO/ SPI3_SCK / I2S3_CK / TIM2_CH2 / SPI1_SCK/ EVENTOUT	
56	90	134	A9	162	PB4 (NJTRST)	I/O	FT		NJTRST/ SPI3_MISO / TIM3_CH1 / SPI1_MISO / I2S3ext_SD/ EVENTOUT	
57	91	135	A6	163	PB5	I/O	FT		I2C1_SMBA/ CAN2_RX / OTG_HS_ULPI_D7 / ETH_PPS_OUT/TIM3_CH 2 / SPI1_MOSI/ SPI3_MOSI / DCMI_D10 / I2S3_SD/ EVENTOUT	
58	92	136	B6	164	PB6	I/O	FT		I2C1_SCL/ TIM4_CH1 / CAN2_TX / DCMI_D5/USART1_TX/ EVENTOUT	

Table 6. STM32F40x pin and ball definitions (continued)

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LQFP64	LQFP100	LQFP144	UFBGA176	LQFP176						
59	93	137	B5	165	PB7	I/O	FT		I2C1_SDA / FSMC_NL / DCMI_VSYNC / USART1_RX / TIM4_CH2 / EVENTOUT	
60	94	138	D6	166	BOOT0	I	B			V _{PP}
61	95	139	A5	167	PB8	I/O	FT		TIM4_CH3 / SDIO_D4 / TIM10_CH1 / DCMI_D6 / ETH_MII_TXD3 / I2C1_SCL / CAN1_RX / EVENTOUT	
62	96	140	B4	168	PB9	I/O	FT		SPI2_NSS / I2S2_WS / TIM4_CH4 / TIM11_CH1 / SDIO_D5 / DCMI_D7 / I2C1_SDA / CAN1_TX / EVENTOUT	
-	97	141	A4	169	PE0	I/O	FT		TIM4_ETR / FSMC_NBL0 / DCMI_D2 / EVENTOUT	
-	98	142	A3	170	PE1	I/O	FT		FSMC_NBL1 / DCMI_D3 / EVENTOUT	
63	99	-	D5	-	V _{SS}	S				
-	-	143	C6	171	PDR_ON	I	FT			
64	100	144	C5	172	V _{DD}	S				
-	-	-	D4	173	PI4	I/O	FT		TIM8_BKIN / DCMI_D5 / EVENTOUT	
-	-	-	C4	174	PI5	I/O	FT		TIM8_CH1 / DCMI_VSYNC / EVENTOUT	
-	-	-	C3	175	PI6	I/O	FT		TIM8_CH2 / DCMI_D6 / EVENTOUT	
-	-	-	C2	176	PI7	I/O	FT		TIM8_CH3 / DCMI_D7 / EVENTOUT	

1. Function availability depends on the chosen device.

2. PC13, PC14, PC15 and PI8 are supplied through the power switch. Since the switch only sinks a limited amount of current (3 mA), the use of GPIOs PC13 to PC15 and PI8 in output mode is limited:
 - The speed should not exceed 2 MHz with a maximum load of 30 pF.
 - These I/Os must not be used as a current source (e.g. to drive an LED).

3. Main function after the first backup domain power-up. Later on, it depends on the contents of the RTC registers even after reset (because these registers are not reset by the main reset). For details on how to manage these I/Os, refer to the RTC register description sections in the STM32F4xx reference manual, available from the STMicroelectronics website: www.st.com.

4. FT = 5 V tolerant except when in analog mode or oscillator mode (for PC14, PC15, PH0 and PH1).