Table 7. Legend/abbreviations used in the pinout table

Nar	ne	Abbreviation	Definition
Pin na	ame		ecified in brackets below the pin name, the pin function during as same as the actual pin name
		S	Supply pin
Din t	vno.	I	Input only pin
Pin t	ype	I/O	Input / output pin
		ANA	Analog-only Input
		FT	5 V tolerant I/O
		TT	3.3 V tolerant I/O
		В	Dedicated BOOT0 pin
		RST	Bidirectional reset pin with embedded weak pull-up resistor
I/O stru	ucture		Option for TT and FT I/Os
		_f	I2C FM+ option
		_a	analog option (supplied by V _{DDA})
		_u	USB option (supplied by V _{DD33USB})
		_h	High Speed Low Voltage
Not	es	Unless otherwise spatter reset.	ecified by a note, all I/Os are set as floating inputs during and
Pin functions	Alternate functions	Functions selected the	hrough GPIOx_AFR registers
FIITIUTICUOTIS	Additional functions	Functions directly se	elected/enabled through peripheral registers

Table 8. STM32H743xl pin/ball definition

No. No.				Pin/hs	all nam		45.0	<u> </u>	//32H/43X	Piii.		,		
1	LQFP100	TFBGA100	LQFP144				LQFP208	TFBGA240 +25	(function after	Pin type	I/O structure	Notes	Alternate functions	
2	1	А3	1	A2	A2	1	1	С3	PE2	I/O	FT_h	-	SPI4_SCK, SAI1_MCLK_A, SAI4_MCLK_A, QUADSPI_BK1_IO2, SAI4_CK1, ETH_MII_TXD3,	-
Second Color	2	В3	2	B2	A1	2	2	D3	PE3	I/O	FT_h	-	SAI1_SD_B, SAI4_SD_B,	-
4 D3 4 C3 B2 4 4 D1 PE5 I/O FT_h - DFSDM_CKIN3, TIM15_CH1, SPI4_MISO, SAI1_SCK_A, SAI4_SCK_A, SAI4_SCK_TA, SAI4_SCK_A, SAI4_SCK_T, TAIA_SCK_TA, SAI4_SCK_T, TAIA_SCK_TA, SAI4_SCK_TA, SAI4_SCK_T, TAIA_SCK_TA, SAI4_SCK_TA, SAI4	3	С3	3	A1	B1	3	3	D2	PE4	I/O	FT_h	-	DFSDM_DATIN3, TIM15_CH1N, SPI4_NSS, SAI1_FS_A, SAI4_FS_A, SAI4_D2, FMC_A20, DCMI_D4,	-
5 E3 5 C2 B3 5 5 E5 PE6 I/O FT_h - SAI1_D1, TIM15_CH2, SPI4_MOSI, SAI1_SD_A, SAI4_SD_A, SA	4	D3	4	С3	B2	4	4	D1	PE5	I/O	FT_h	-	DFSDM_CKIN3, TIM15_CH1, SPI4_MISO, SAI1_SCK_A, SAI4_SCK_A, SAI4_CK2, FMC_A21, DCMI_D6,	-
- - - A3 - - - VDD S -	5	E3	5	C2	В3	5	5	E5	PE6	I/O	FT_h	-	SAI1_D1, TIM15_CH2, SPI4_MOSI, SAI1_SD_A, SAI4_SD_A, SAI4_D1, SAI2_MCK_B, TIM1_BKIN2_COMP12, FMC_A22, DCMI_D7,	-
6 B2 6 E3 C1 6 6 B1 VBAT S	-	-	-	M4	H10	-	-	A1	VSS	S	-	-	-	-
J6 - B2 VSS EVENTOUT RTC_TAMP_2/ RTC_TS/ WKUP3 7 A2 7 D3 D1 8 8 E3 PC13 I/O FT - EVENTOUT RTC_TS/ WKUP2	-	-	-	A3	-	-	-	-	VDD	S	-	-	-	-
-	6	B2	6	E3	C1	6	6	B1	VBAT	S	_	-	-	-
D2 7 7 E4 PI8 I/O FT - EVENTOUT RTC_TS/ WKUP3 7 A2 7 D3 D1 8 8 E3 PC13 I/O FT - EVENTOUT RTC_TS/ WKUP2	-	-	-	-	J6	-	-	B2	VSS	-	-	-	-	
7 A2 7 D3 D1 8 8 E3 PC13 I/O FT - EVENTOUT RTC_TS/ WKUP2	-	-	-	-	D2	7	7	E4	PI8	I/O	FT	-	EVENTOUT	RTC_TS/
J7 - B6 VSS	7	A2	7	D3	D1	8	8	E3	PC13	I/O	FT	-	EVENTOUT	RTC_TS/
_ , , , , , , , , , , , , , , , , , , ,	-	-	-	-	J7	-	-	В6	VSS	-	-	-	-	-

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Table 8. STM32H743xl pin/ball definition (continued)

			Pin/ba	all nam	е								
LQFP100	TFBGA100	LQFP144	UFBGA169	UFBGA176+25	LQFP176	LQFP208	TFBGA240 +25	Pin name (function after reset)	Pin type	I/O structure	Notes	Alternate functions	Additional functions
8	A1	8	C1	E1	9	9	C2	PC14- OSC32_ IN(PC14)	I/O	FT	-	EVENTOUT	OSC32_IN
9	B1	9	B1	F1	10	10	C1	PC15- OSC32_ OUT(PC1 5)	I/O	FT	-	EVENTOUT	OSC32_ OUT
-	1	-	-	D3	11	11	E2	PI9	I/O	FT_h	-	UART4_RX, CAN1_RX, FMC_D30, LCD_VSYNC, EVENTOUT	-
-	1	-	-	E3	12	12	F3	PI10	I/O	FT_h	-	CAN1_RXFD, ETH_MII_RX_ER, FMC_D31, LCD_HSYNC, EVENTOUT	
-	-	-	E1	E4	13	13	F4	PI11	I/O	FT	-	LCD_G6, OTG_HS_ULPI_DIR, EVENTOUT	WKUP4
-	C2	-	D2	F2	14	14	A17	VSS	S	-	-	-	-
-	D2	-	D1	F3	15	15	E6	VDD	S	-	-	-	-
-	ı	-	-	ı	-	-	E1 ⁽¹⁾	NC	1	-	-	-	-
-	-	-	-	-	-	-	F1 ⁽²⁾	NC	-	-	-	-	-
-	-	-	-	-	-	-	G2 ⁽³⁾	NC	-	-	-	-	-
-	-	10	F3	E2	16	16	G4	PF0	I/O	FT_f	-	I2C2_SDA, FMC_A0, EVENTOUT	-
-	-	11	E4	Н3	17	17	G3	PF1	I/O	FT_f	-	I2C2_SCL, FMC_A1, EVENTOUT	-
-	-	12	F4	H2	18	18	G1	PF2	I/O	FT	-	I2C2_SMBA, FMC_A2, EVENTOUT	-
-	1	-	F2	1	-	19	H1	Pl12	I/O	FT	-	ETH_TX_ER, LCD_HSYNC, EVENTOUT	-
-	-	-	F1	-	-	20	H2	PI13	I/O	FT	-	LCD_VSYNC, EVENTOUT	-
-	1	-	-	-	-	21	НЗ	PI14	I/O	FT_h	-	LCD_CLK, EVENTOUT	-
-	-	13	E5	J2	19	22	H4	PF3	I/O	FT_ ha	-	FMC_A3, EVENTOUT	ADC3_INP5
-	1	14	G3	J3	20	23	J5	PF4	I/O	FT_ ha	-	FMC_A4, EVENTOUT	ADC3_INN5, ADC3_INP9
-	-	15	F5	K3	21	24	J4	PF5	I/O	FT_ ha	-	FMC_A5, EVENTOUT	ADC3_INP4

Table 8. STM32H743xI pin/ball definition (continued)

			Pin/ba	all nam	е							,	
LQFP100	TFBGA100	LQFP144	UFBGA169	UFBGA176+25	LQFP176	LQFP208	TFBGA240 +25	Pin name (function after reset)	Pin type	I/O structure	Notes	Alternate functions	Additional functions
10	-	16	B10	G2	22	25	C10	VSS	S	-	-	-	-
11	-	17	G1	G3	23	26	E9	VDD	S	-	-	-	-
-	-	18	G4	K2	24	27	K2	PF6	I/O	FT_ ha	-	TIM16_CH1, SPI5_NSS, SAI1_SD_B, UART7_RX, SAI4_SD_B, QUADSPI_BK1_IO3, EVENTOUT	ADC3_INN4, ADC3_INP8
-	-	19	F6	K1	25	28	K3	PF7	I/O	FT_ ha	-	TIM17_CH1, SPI5_SCK, SAI1_MCLK_B, UART7_TX, SAI4_MCLK_B, QUADSPI_BK1_IO2, EVENTOUT	ADC3_INP3
-	-	20	H4	L3	26	29	K4	PF8	I/O	FT_ ha	-	TIM16_CH1N, SPI5_MISO, SAI1_SCK_B, UART7_RTS, SAI4_SCK_B, TIM13_CH1, QUADSPI_BK1_IO0, EVENTOUT	ADC3_INN3, ADC3_INP7
-	-	21	G5	L2	27	30	L4	PF9	I/O	FT_ ha	-	TIM17_CH1N, SPI5_MOSI, SAI1_FS_B, UART7_CTS, SAI4_FS_B, TIM14_CH1, QUADSPI_BK1_IO1, EVENTOUT	ADC3_INP2
-	-	22	НЗ	L1	28	31	L3	PF10	I/O	FT_ ha	-	TIM16_BKIN, SAI1_D3, QUADSPI_CLK, SAI4_D3, DCMI_D11, LCD_DE, EVENTOUT	ADC3_INN2, ADC3_INP6
12	C1	23	H1	G1	29	32	J2	PH0- OSC_IN (PH0)	I/O	FT	-	EVENTOUT	OSC_IN
13	D1	24	H2	H1	30	33	J1	PH1- OSC_OUT (PH1)	I/O	FT	-	EVENTOUT	OSC_OUT
14	E1	25	G6	J1	31	34	K1	NRST	I/O	RST	-	-	-
15	F1	26	J1	M2	32	35	L2	PC0	I/O	FT_a	-	DFSDM_CKINO, DFSDM_DATIN4, SAI2_FS_B, OTG_HS_ULPI_STP, FMC_SDNWE, LCD_R5, EVENTOUT	ADC123_ INP10

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Table 8. STM32H743xl pin/ball definition (continued)

			Pin/ba	ıll nam	е			-					
LQFP100	TFBGA100	LQFP144	UFBGA169	UFBGA176+25	LQFP176	LQFP208	TFBGA240 +25	Pin name (function after reset)	Pin type	I/O structure	Notes	Alternate functions	Additional functions
16	F2	27	J2	М3	33	36	M2	PC1	I/O	FT_ ha	-	TRACEDO, SAI1_D1, DFSDM_DATINO, DFSDM_CKIN4, SPI2_MOSI/I2S2_SDO, SAI1_SD_A, SAI4_SD_A, SDMMC2_CK, SAI4_D1, ETH_MDC, MDIOS_MDC, EVENTOUT	ADC123_ INN10, ADC123_ INP11, RTC_TAMP_3/ WKUP5
-	1	1	1	1	1	1	M3 ⁽⁴⁾	PC2	I/O	FT_a	-	DFSDM_CKIN1, SPI2_MISO/I2S2_SDI, DFSDM_CKOUT, OTG_HS_ULPI_DIR, ETH_MII_TXD2, FMC_SDNE0, EVENTOUT	ADC123_ INN11, ADC123_ INP12
17 (5)	E2 ⁽⁵⁾	28 ⁽⁵⁾	K2 ⁽⁵⁾	M4 ⁽⁵⁾	34 ⁽⁵⁾	37 ⁽⁵⁾	R1 ⁽⁴⁾	PC2_C	ANA	TT_a	-	-	ADC3_INN1, ADC3_INP0
-	-	-	-	-	-	-	M4 ⁽⁴⁾	PC3	I/O	FT_a	-	DFSDM_DATIN1, SPI2_MOSI/I2S2_SDO, OTG_HS_ULPI_NXT, ETH_MII_TX_CLK, FMC_SDCKE0, EVENTOUT	ADC12_INN12, ADC12_INP13
18 (5)	F3 ⁽⁵⁾	29 ⁽⁵⁾	K1 ⁽⁵⁾	M5 ⁽⁵⁾	35 ⁽⁵⁾	38 ⁽⁵⁾	R2 ⁽⁴⁾	PC3_C	ANA	TT_a	-	-	ADC3_INP1
-	F5	30	-	G3	36	39	E11	VDD	S	-	-	-	-
-	E6	1	В3	J10	-	-	C13	VSS	S	-	-	-	-
19	G1	31	J3	M1	37	40	P1	VSSA	S	-	-	-	-
-	-	-	-	N1	-	-	N1	VREF-	S	-	-	-	-
20	_(6)	32	L2	P1	38	41	M1	VREF+	S	-	-	-	-
21	H1	33	L1	R1	39	42	L1	VDDA	S	-	-	-	-
22	G2	34	J5	N3	40	43	N5 ⁽⁴⁾	PA0- WKUP (PA0)	I/O	FT_a	-	TIM2_CH1/TIM2_ETR, TIM5_CH1, TIM8_ETR, TIM15_BKIN, USART2_CTS_NSS, UART4_TX, SDMMC2_CMD, SAI2_SD_B, ETH_MII_CRS, EVENTOUT	ADC1_INP16, WKUP0
-	-	-	-	-	-	-	T1 ⁽⁴⁾	PA0_C	ANA	TT_a	-	-	ADC12_INN1, ADC12_INP0

Table 8. STM32H743xl pin/ball definition (continued)

			Pin/ba	all nam								(continued)	
LQFP100	TFBGA100	LQFP144	UFBGA169	UFBGA176+25	LQFP176	LQFP208	TFBGA240 +25	Pin name (function after reset)	Pin type	I/O structure	Notes	Alternate functions	Additional functions
23	H2	35	K4	N2	41	44	N4 ⁽⁴⁾	PA1	I/O	FT_ ha	-	TIM2_CH2, TIM5_CH2, LPTIM3_OUT, TIM15_CH1N, USART2_RTS, UART4_RX, QUADSPI_BK1_IO3, SAI2_MCK_B, ETH_MII_RX_CLK/ETH_ RMII_REF_CLK, LCD_R2, EVENTOUT	ADC1_INN16, ADC1_INP17
-	-	-	-	-	-	-	T2 ⁽⁴⁾	PA1_C	ANA	TT_a	-	-	ADC12_INP1
24	J2	36	N1	P2	42	45	N3	PA2	I/O	FT_a	-	TIM2_CH3, TIM5_CH3, LPTIM4_OUT, TIM15_CH1, USART2_TX, SAI2_SCK_B, ETH_MDIO, MDIOS_MDIO, LCD_R1, EVENTOUT	ADC12_INP14, WKUP1
-	-	-	N2	F4	43	46	N2	PH2	I/O	FT_ ha	-	LPTIM1_IN2, QUADSPI_BK2_IO0, SAI2_SCK_B, ETH_MII_CRS, FMC_SDCKE0, LCD_R0, EVENTOUT	ADC3_INP13
-	K1	-	M1	-	-	-	F5	VDD	S	-	-	-	-
-	J1	-	M7	J8	-	-	C16	VSS	S	-	-	-	-
1	1	-	М3	G4	44	47	P2	PH3	I/O	FT_ ha	-	QUADSPI_BK2_IO1, SAI2_MCK_B, ETH_MII_COL, FMC_SDNE0, LCD_R1, EVENTOUT	ADC3_INN13, ADC3_INP14
-	-	-	K3	H4	45	48	P3	PH4	I/O	FT_fa	-	I2C2_SCL, LCD_G5, OTG_HS_ULPI_NXT, LCD_G4, EVENTOUT	ADC3_INN14, ADC3_INP15
-	-	-	L3	J4	46	49	P4	PH5	I/O	FT_fa	-	I2C2_SDA, SPI5_NSS, FMC_SDNWE, EVENTOUT	ADC3_INN15, ADC3_INP16
25	K2	37	N3	R2	47	50	U2	PA3	I/O	FT_ ha	-	TIM2_CH4, TIM5_CH4, LPTIM5_OUT, TIM15_CH2, USART2_RX, LCD_B2, OTG_HS_ULPI_D0, ETH_MII_COL, LCD_B5, EVENTOUT	ADC12_INP15

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Table 8. STM32H743xl pin/ball definition (continued)

			Pin/ba	all nam	е			-					
LQFP100	TFBGA100	LQFP144	UFBGA169	UFBGA176+25	LQFP176	LQFP208	TFBGA240 +25	Pin name (function after reset)	Pin type	I/O structure	Notes	Alternate functions	Additional functions
26	-	38	G2	K6	-	51	F2 ⁽³⁾	VSS	S	-	-	-	-
-	-	-	ı	L4	48	1	1	VSS	S	-	-	-	-
27	-	39	1	K4	49	52	G5	VDD	S	-	-	-	-
28	G3	40	Н6	N4	50	53	U3	PA4	I/O	TT_a	-	TIM5_ETR, SPI1_NSS/I2S1_WS, SPI3_NSS/I2S3_WS, USART2_CK, SPI6_NSS, OTG_HS_SOF, DCMI_HSYNC, LCD_VSYNC, EVENTOUT	ADC12_INP18, DAC1_OUT1
29	Н3	41	L4	P4	51	54	Т3	PA5	I/O	TT_ ha	1	TIM2_CH1/TIM2_ETR, TIM8_CH1N, SPI1_SCK/I2S1_CK, SPI6_SCK, OTG_HS_ULPI_CK, LCD_R4, EVENTOUT	ADC12_INN18, ADC12_INP19, DAC1_OUT2
30	J3	42	K5	P3	52	55	R3	PA6	I/O	FT_a	1	TIM1_BKIN, TIM3_CH1, TIM8_BKIN, SPI1_MISO/I2S1_SDI, SPI6_MISO, TIM13_CH1, TIM8_BKIN_COMP12, MDIOS_MDC, TIM1_BKIN_COMP12, DCMI_PIXCLK, LCD_G2, EVENTOUT	ADC12_INP3
31	КЗ	43	J6	R3	53	56	R5	PA7	I/O	TT_a	-	TIM1_CH1N, TIM3_CH2, TIM8_CH1N, SPI1_MOSI/I2S1_SDO, SPI6_MOSI, TIM14_CH1, ETH_MII_RX_DV/ETH_R MII_CRS_DV, FMC_SDNWE, EVENTOUT	ADC12_INN3, ADC12_INP7, OPAMP1_VINM
32	G4	44	K6	N5	54	57	T4	PC4	I/O	TT_a	-	DFSDM_CKIN2,	ADC12_INP4, OPAMP1_ VOUT, COMP_1_INM

Table 8. STM32H743xl pin/ball definition (continued)

			Pin/ba	ıll nam	е							•	
LQFP100	TFBGA100	LQFP144	UFBGA169	UFBGA176+25	LQFP176	LQFP208	TFBGA240 +25	Pin name (function after reset)	Pin type	I/O structure	Notes	Alternate functions	Additional functions
33	H4	45	N5	P5	55	58	U4	PC5	I/O	TT_a	-	SAI1_D3, DFSDM_DATIN2, SPDIFRX_IN3, SAI4_D3, ETH_MII_RXD1/ETH_R MII_RXD1, FMC_SDCKE0, COMP_1_OUT, EVENTOUT	ADC12_INN4, ADC12_INP8, OPAMP1_ VINM
-	-	-	N4	-	-	59	G13	VDD	S	-	-	-	-
-	-	-	H12	J9	-	60	G16	VSS	S	-	-	-	-
34	J4	46	M5	R5	56	61	U5	PB0	I/O	FT_a	-	TIM1_CH2N, TIM3_CH3, TIM8_CH2N, DFSDM_CKOUT, UART4_CTS, LCD_R3, OTG_HS_ULPI_D1, ETH_MII_RXD2, LCD_G1, EVENTOUT	ADC12_INN5, ADC12_INP9, OPAMP1_VINP, COMP_1_INP
35	K4	47	L5	R4	57	62	T5	PB1	I/O	TT_u	-	TIM1_CH3N, TIM3_CH4, TIM8_CH3N, DFSDM_DATIN1, LCD_R6, OTG_HS_ULPI_D2, ETH_MII_RXD3, LCD_G0, EVENTOUT	ADC12_INP5, COMP_1_INM
36	G5	48	L6	M6	58	63	R6	PB2	I/O	FT_ ha	-	SAI1_D1, DFSDM_CKIN1, SAI1_SD_A, SPI3_MOSI/I2S3_SDO, SAI4_SD_A, QUADSPI_CLK, SAI4_D1, ETH_TX_ER, EVENTOUT	COMP_1_INP, RTC_OUT
1	-	ı	-	ı	-	64	P5	PI15	I/O	FT	-	LCD_G2, LCD_R0, EVENTOUT	-
-	-	-	J4	-	-	65	N6	PJ0	I/O	FT	-	LCD_R7, LCD_R1, EVENTOUT	-
-	-	-	H5	-	-	66	P6	PJ1	I/O	FT	-	LCD_R2, EVENTOUT	-
-	-	1	-	-	-	67	T6	PJ2	I/O	FT	-	LCD_R3, EVENTOUT	-
-	-	-	-	-	-	68	U6	PJ3	I/O	FT	-	LCD_R4, EVENTOUT	-
-	-	-	-	-	-	69	U7	PJ4	I/O	FT	-	LCD_R5, EVENTOUT	-
-	-	49	M6	R6	59	70	Т7	PF11	I/O	FT_a	-	SPI5_MOSI, SAI2_SD_B, FMC_SDNRAS, DCMI_D12, EVENTOUT	ADC1_INP2

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Table 8. STM32H743xl pin/ball definition (continued)

			Pin/ha	ıll nam								continued)	
LQFP100	TFBGA100	LQFP144	UFBGA169	UFBGA176+25	LQFP176	LQFP208	TFBGA240 +25	Pin name (function after reset)	Pin type	I/O structure	Notes	Alternate functions	Additional functions
-	-	50	N6	P6	60	71	R7	PF12	I/O	FT_ ha	-	FMC_A6, EVENTOUT	ADC1_INN2, ADC1_INP6
-	-	51	M11	M8	61	72	J3	VSS	S	-	-	-	-
-	-	52	-	N8	62	73	H5	VDD	S	-	-	-	-
-	-	53	G7	N6	63	74	P7	PF13	I/O	FT_ ha	-	DFSDM_DATIN6, I2C4_SMBA, FMC_A7, EVENTOUT	ADC2_INP2
-	1	54	H7	R7	64	75	P8	PF14	I/O	FT_ fha	-	DFSDM_CKIN6, I2C4_SCL, FMC_A8, EVENTOUT	ADC2_INN2, ADC2_INP6
-	-	55	J7	P7	65	76	R9	PF15	I/O	FT_fh	-	I2C4_SDA, FMC_A9, EVENTOUT	-
-	1	56	K7	N7	66	77	Т8	PG0	I/O	FT_h	-	FMC_A10, EVENTOUT	-
-	-	-	M2	F6	-	-	J16	VSS	S	-	-	-	-
-	-	ı	A10	ı	-	-	H13	VDD	S	-	-	-	-
-	-	57	L7	M7	67	78	U8	PG1	I/O	TT_h	-	FMC_A11, EVENTOUT	OPAMP2_ VINM
37	H5	58	G8	R8	68	79	U9	PE7	I/O	TT_ ha	-	TIM1_ETR, DFSDM_DATIN2, UART7_RX, QUADSPI_BK2_IO0, FMC_D4/FMC_DA4, EVENTOUT	OPAMP2_ VOUT, COMP_2_INM
38	J5	59	Н8	P8	69	80	Т9	PE8	I/O	TT_ ha	-	TIM1_CH1N, DFSDM_CKIN2, UART7_TX, QUADSPI_BK2_IO1, FMC_D5/FMC_DA5, COMP_2_OUT, EVENTOUT	OPAMP2_ VINM
39	K5	60	J8	P9	70	81	P9	PE9	I/O	TT_ ha	-	TIM1_CH1, DFSDM_CKOUT, UART7_RTS, QUADSPI_BK2_IO2, FMC_D6/FMC_DA6, EVENTOUT	OPAMP2_VINP, COMP_2_INP
-	-	61	C12	M9	71	82	J17	VSS	S	-	-	-	-
-	-	62	C13	N9	72	83	J13	VDD	S	-	-	-	-

Table 8. STM32H743xl pin/ball definition (continued)

			Pin/ba	all nam								continued)	
LQFP100	TFBGA100	LQFP144	UFBGA169	UFBGA176+25	LQFP176	LQFP208	TFBGA240 +25	Pin name (function after reset)	Pin type	I/O structure	Notes	Alternate functions	Additional functions
40	G6	63	M8	R9	73	84	N9	PE10	I/O	FT_ ha	-	TIM1_CH2N, DFSDM_DATIN4, UART7_CTS, QUADSPI_BK2_IO3, FMC_D7/FMC_DA7, EVENTOUT	COMP_2_INM
41	Н6	64	N8	P10	74	85	P10	PE11	I/O	FT_ ha	-	TIM1_CH2, DFSDM_CKIN4, SPI4_NSS, SAI2_SD_B, FMC_D8/FMC_DA8, LCD_G3, EVENTOUT	COMP_2_INP
42	J6	65	L8	R10	75	86	R10	PE12	I/O	FT_h	-	TIM1_CH3N, DFSDM_DATIN5, SPI4_SCK, SAI2_SCK_B, FMC_D9/FMC_DA9, COMP_1_OUT, LCD_B4, EVENTOUT	-
43	K6	66	K8	N11	76	87	T10	PE13	I/O	FT_h	-	TIM1_CH3, DFSDM_CKIN5, SPI4_MISO, SAI2_FS_B, FMC_D10/FMC_DA10, COMP_2_OUT, LCD_DE, EVENTOUT	-
-	-	-	L12	F7	-	-	K15	VSS	S	-	-	-	-
-	-	-	H13	-	-	-	K13	VDD	S	-	-	-	-
44	G7	67	J9	P11	77	88	U10	PE14	I/O	FT_h	-	TIM1_CH4, SPI4_MOSI, SAI2_MCK_B, FMC_D11/FMC_DA11, LCD_CLK, EVENTOUT	-
45	H7	68	N9	R11	78	89	R11	PE15	I/O	FT_h	-	TIM1_BKIN, HDMITIM1_BKIN, FMC_D12/FMC_DA12, TIM1_BKIN_COMP12, LCD_R7, EVENTOUT	-
46	J7	69	L9	R12	79	90	P11	PB10	I/O	FT_f	-	TIM2_CH3, HRTIM_SCOUT, LPTIM2_IN1, I2C2_SCL, SPI2_SCK/I2S2_CK, DFSDM_DATIN7, USART3_TX, QUADSPI_BK1_NCS, OTG_HS_ULPI_D3, ETH_MII_RX_ER, LCD_G4, EVENTOUT	-

Table 8. STM32H743xl pin/ball definition (continued)

			Pin/ba	all nam	е							·	
LQFP100	TFBGA100	LQFP144	UFBGA169	UFBGA176+25	LQFP176	LQFP208	TFBGA240 +25	Pin name (function after reset)	Pin type	I/O structure	Notes	Alternate functions	Additional functions
47	K7	70	М9	R13	80	91	P12	PB11	I/O	FT_f	-	TIM2_CH4, HRTIM_SCIN, LPTIM2_ETR, I2C2_SDA, DFSDM_CKIN7, USART3_RX, OTG_HS_ULPI_D4, ETH_MII_TX_EN/ETH_R MII_TX_EN, LCD_G5, EVENTOUT	-
48	F8	71	N10	M10	81	92	U11	VCAP1	S	-	-	-	-
49	E4	-	-	K7	ı	93	L15	VSS	S	-	-	-	-
-	-	-	M10	-	-	-	U12	VDDLDO1	S	-	-	-	-
50	-	72	M1	N10	82	94	L13	VDD	S	-	-	-	-
-	ı	-	-	ı	ı	95	R12	PJ5	1/0	FT	-	LCD_R6, EVENTOUT	-
-	1	-	-	M11	83	96	T11	PH6	I/O	FT	-	TIM12_CH1, I2C2_SMBA, SPI5_SCK, ETH_MII_RXD2, FMC_SDNE1, DCMI_D8, EVENTOUT	-
-	-	-	-	N12	84	97	U13	PH7	I/O	FT_fa	-	I2C3_SCL, SPI5_MISO, ETH_MII_RXD3, FMC_SDCKE1, DCMI_D9, EVENTOUT	-
-	-	-	-	M12	85	98	T13	PH8	I/O	FT_fh a	-	TIM5_ETR, I2C3_SDA, FMC_D16, DCMI_HSYNC, LCD_R2, EVENTOUT	-
-	-	-	-	F8	-	-	M15	VSS	S	-	-	-	-
-	-	-	L13	-	-	-	M13	VDD	S	-	-	-	-
-	-	-	-	M13	86	99	R13	PH9	I/O	FT_h	-	TIM12_CH2, I2C3_SMBA, FMC_D17, DCMI_D0, LCD_R3, EVENTOUT	-
-	-	-	K9	L13	87	100	P13	PH10	I/O	FT_h	-	TIM5_CH1, I2C4_SMBA, FMC_D18, DCMI_D1, LCD_R4, EVENTOUT	-
-	-	-	L10	L12	88	101	P14	PH11	I/O	FT_fh	-	TIM5_CH2, I2C4_SCL, FMC_D19, DCMI_D2, LCD_R5, EVENTOUT	-

Table 8. STM32H743xl pin/ball definition (continued)

			Pin/ba	all nam	е			-					
LQFP100	TFBGA100	LQFP144	UFBGA169	UFBGA176+25	LQFP176	LQFP208	TFBGA240 +25	Pin name (function after reset)	Pin type	I/O structure	Notes	Alternate functions	Additional functions
-	-	-	K10	K12	89	102	R14	PH12	I/O	FT_fh	-	TIM5_CH3, I2C4_SDA, FMC_D20, DCMI_D3, LCD_R6, EVENTOUT	-
-	-	-	-	H12	90	-	N16	VSS	S	-	-	-	-
-	-	-	N11	J12	91	103	P17	VDD	S	-	-	-	-
51	K8	73	N12	P12	92	104	T14	PB12	I/O	FT_u	-	TIM1_BKIN, I2C2_SMBA, SPI2_NSS/I2S2_WS, DFSDM_DATIN1, USART3_CK, CAN2_RX, OTG_HS_ULPI_D5, ETH_MII_TXD0/ETH_RM II_TXD0, OTG_HS_ID, TIM1_BKIN_COMP12, UART5_RX, EVENTOUT	
52	J8	74	L11	P13	93	105	U14	PB13	I/O	FT_u	-	TIM1_CH1N, LPTIM2_OUT, SPI2_SCK/I2S2_CK, DFSDM_CKIN1, USART3_CTS_NSS, CAN2_TX, OTG_HS_ULPI_D6, ETH_MII_TXD1/ETH_RM II_TXD1, UART5_TX, EVENTOUT	OTG_HS_ VBUS
53	H10	75	N13	R14	94	106	U15	PB14	I/O	FT_u	-	TIM1_CH2N, TIM12_CH1, TIM8_CH2N, USART1_TX, SPI2_MISO/I2S2_SDI, DFSDM_DATIN2, USART3_RTS, UART4_RTS, SDMMC2_D0, OTG_HS_DM, EVENTOUT	-
54	G10	76	M13	R15	95	107	T15	PB15	I/O	FT_u	-	RTC_REFIN, TIM1_CH3N, TIM12_CH2, TIM8_CH3N, USART1_RX, SPI2_MOSI/I2S2_SDO, DFSDM_CKIN2, UART4_CTS, SDMMC2_D1, OTG_HS_DP, EVENTOUT	-

Table 8. STM32H743xl pin/ball definition (continued)

			Pin/ba	all nam	е								
LQFP100	TFBGA100	LQFP144	UFBGA169	UFBGA176+25	LQFP176	LQFP208	TFBGA240 +25	Pin name (function after reset)	Pin type	I/O structure	Notes	Alternate functions	Additional functions
55	K9	77	M12	P15	96	108	U16	PD8	I/O	FT_h	-	DFSDM_CKIN3, SAI3_SCK_B, USART3_TX, SPDIFRX_IN1, FMC_D13/FMC_DA13, EVENTOUT	-
56	J9	78	K11	P14	97	109	T17	PD9	I/O	FT_h	-	DFSDM_DATIN3, SAI3_SD_B, USART3_RX, CAN2_RXFD, FMC_D14/FMC_DA14, EVENTOUT	-
57	Н9	79	K12	N15	98	110	T16	PD10	I/O	FT_h	-	DFSDM_CKOUT, SAI3_FS_B, USART3_CK, CAN2_TXFD, FMC_D15/FMC_DA15, LCD_B3, EVENTOUT	-
-	-	1	N7	ı	1	1	N12	VDD	S	-	-	-	-
-	-	1	-	F9	1	1	U17	VSS	S	-	-	-	-
58	G9	80	J10	N14	99	111	R15	PD11	I/O	FT_h	-	LPTIM2_IN2, I2C4_SMBA, USART3_CTS_NSS, QUADSPI_BK1_IO0, SAI2_SD_A, FMC_A16, EVENTOUT	-
59	K10	81	K13	N13	100	112	R16	PD12	I/O	FT_fh	-	LPTIM1_IN1, TIM4_CH1, LPTIM2_IN1, I2C4_SCL, USART3_RTS, QUADSPI_BK1_IO1, SAI2_FS_A, FMC_A17, EVENTOUT	-
60	J10	82	J11	M15	101	113	R17	PD13	I/O	FT_fh	-	LPTIM1_OUT, TIM4_CH2, I2C4_SDA, QUADSPI_BK1_IO3, SAI2_SCK_A, FMC_A18, EVENTOUT	-
-	-	83	-	K8	102	114	T12	VSS	S	-	-	-	-
-	-	84	-	J13	103	115	N11	VDD	S	-	-	-	-
61	H8	85	J13	M14	104	116	P16	PD14	I/O	FT_h	-	TIM4_CH3, SAI3_MCLK_B, UART8_CTS, FMC_D0/FMC_DA0, EVENTOUT	-

Table 8. STM32H743xl pin/ball definition (continued)

			Pin/ba	all nam	е			-			,,,,		
LQFP100	TFBGA100	LQFP144	UFBGA169	UFBGA176+25	LQFP176	LQFP208	TFBGA240 +25	Pin name (function after reset)	Pin type	I/O structure	Notes	Alternate functions	Additional functions
62	G8	86	J12	L14	105	117	P15	PD15	I/O	FT_h	-	TIM4_CH4, SAI3_MCLK_A, UART8_RTS, FMC_D1/FMC_DA1, EVENTOUT	-
-	ı	ı	-	-	-	118	N15	PJ6	I/O	FT	-	TIM8_CH2, LCD_R7, EVENTOUT	-
-	ı	1	-	-	-	119	N14	PJ7	I/O	FT	-	TRGIN, TIM8_CH2N, LCD_G0, EVENTOUT	-
-	-	-	-	-	-	-	N10	VDD	S		-		-
-	-	-	-	F10	-	-	R8	VSS	S		-		-
-	1	-	-	-	-	120	N13	PJ8	I/O	FT	-	TIM1_CH3N, TIM8_CH1, UART8_TX, LCD_G1, EVENTOUT	-
-	-	-	-	-	-	121	M14	PJ9	I/O	FT	-	TIM1_CH3, TIM8_CH1N, UART8_RX, LCD_G2, EVENTOUT	-
-	1	-	-	-	-	122	L14	PJ10	I/O	FT	-	TIM1_CH2N, TIM8_CH2, SPI5_MOSI, LCD_G3, EVENTOUT	-
-	-	-	-	-	-	123	K14	PJ11	I/O	FT	-	TIM1_CH2, TIM8_CH2N, SPI5_MISO, LCD_G4, EVENTOUT	-
-	1	-	-	-	-	124	N8	VDD	S		-		-
-	-	-	-	G6	-	125	U1	VSS	S	-	-	-	-
-	1	-	-	-	-	-	N17	NC	-	-	-	-	-
-	-	-	-	-	-	-	M16	NC	-	-	-	-	-
-	-	-	-	-	-	-	M17	NC	-	-	-	-	-
-	-	-	-	-	-	-	L7	VSS	S	-	-	-	-
-	-	-	-	-	-	-	L16 ⁽¹⁾	NC	-	-	-	-	-
-	-	-	-	-	-	-	L17 ⁽¹⁾	NC	-	-	-	-	-
-	-	-	-	-	-	-	K16	NC	-	-	-	-	-
-	-	-	-	-	-	-	K17	NC	-	-	-	-	-
-	-	-	-	-	-	-	L8	VSS	S	-	-	-	-

Table 8. STM32H743xl pin/ball definition (continued)

			Pin/ba	all nam	е			-					
LQFP100	TFBGA100	LQFP144	UFBGA169	UFBGA176+25	LQFP176	LQFP208	TFBGA240 +25	Pin name (function after reset)	Pin type	I/O structure	Notes	Alternate functions	Additional functions
-	1	-	-	-	-	126	J14	PK0	I/O	FT	-	TIM1_CH1N, TIM8_CH3, SPI5_SCK, LCD_G5, EVENTOUT	-
-	-	-	-	-	-	127	J15	PK1	I/O	FT	-	TIM1_CH1, TIM8_CH3N, SPI5_NSS, LCD_G6, EVENTOUT	-
-	1	-	1	-	1	128	H17	PK2	I/O	FT	1	TIM1_BKIN, TIM8_BKIN, TIM8_BKIN_COMP12, TIM1_BKIN_COMP12, LCD_G7, EVENTOUT	-
-	,	87	Н9	L15	106	129	H16	PG2	I/O	FT_h	-	TIM8_BKIN, TIM8_BKIN_COMP12, FMC_A12, EVENTOUT	-
-	-	88	H10	K15	107	130	H15	PG3	I/O	FT_h	- 1	TIM8_BKIN2, TIM8_BKIN2_COMP12, FMC_A13, EVENTOUT	-
-	-	ı	-	G7	1	1	-	VSS	S	-	ı	-	-
-	-	ı	-	ı	1	1	N7	VDD	S	-	-	-	-
1	1	89	F8	K14	108	131	H14	PG4	I/O	FT_h	1	TIM1_BKIN2, TIM1_BKIN2_COMP12, FMC_A14/FMC_BA0, EVENTOUT	-
-	-	90	H11	K13	109	132	G14	PG5	I/O	FT_h	-	TIM1_ETR, FMC_A15/FMC_BA1, EVENTOUT	-
,	,	91	G9	J15	110	133	G15	PG6	I/O	FT_h	-	TIM17_BKIN, HRTIM_CHE1, QUADSPI_BK1_NCS, FMC_NE3, DCMI_D12, LCD_R7, EVENTOUT	-
-	-	92	G10	J14	111	134	F16	PG7	I/O	FT_h	-	HRTIM_CHE2, SAI1_MCLK_A, USART6_CK, FMC_INT, DCMI_D13, LCD_CLK, EVENTOUT	-
-	-	93	G11	H14	112	135	F15	PG8	I/O	FT_h	1	TIM8_ETR, SPI6_NSS, USART6_RTS, SPDIFRX_IN2, ETH_PPS_OUT, FMC_SDCLK, LCD_G7, EVENTOUT	-
-	-	94	-	G12	113	136	-	VSS	S	-	-	-	-

Table 8. STM32H743xl pin/ball definition (continued)

			Pin/ba	all nam	е			-				,	
LQFP100	TFBGA100	LQFP144	UFBGA169	UFBGA176+25	LQFP176	LQFP208	TFBGA240 +25	Pin name (function after reset)	Pin type	VO structure	Notes	Alternate functions	Additional functions
-	-	-	G12	-	-	-	G17	VDD50 USB	S	-	-	-	-
-	F6	95	G13	H13	114	137	F17	VDD33 USB	S	-	-	-	-
-	-	-	-	-	-	-	M5	VDD	S	-	-	-	-
63	F10	96	F9	H15	115	138	F14	PC6	I/O	FT_h	-	HRTIM_CHA1, TIM3_CH1, TIM8_CH1, DFSDM_CKIN3, I2S2_MCK, USART6_TX, SDMMC1_DODIR, FMC_NWAIT, SDMMC2_D6, SDMMC1_D6, DCMI_D0, LCD_HSYNC, EVENTOUT	SWPMI_IO
64	E10	97	F10	G15	116	139	F13	PC7	I/O	FT_h	-	TRGIO, HRTIM_CHA2, TIM3_CH2, TIM8_CH2, DFSDM_DATIN3, I2S3_MCK, USART6_RX, SDMMC1_D123DIR, FMC_NE1, SDMMC2_D7, SWPMI_TX, SDMMC1_D7, DCMI_D1, LCD_G6, EVENTOUT	-
65	F9	98	F12	G14	117	140	E13	PC8	I/O	FT_h	-	TRACED1, HRTIM_CHB1, TIM3_CH3, TIM8_CH3, USART6_CK, UART5_RTS, FMC_NE2/FMC_NCE, SWPMI_RX, SDMMC1_D0, DCMI_D2, EVENTOUT	-
66	E9	99	F11	F14	118	141	E14	PC9	I/O	FT_fh	-	MCO2, TIM3_CH4, TIM8_CH4, I2C3_SDA, I2S_CKIN, UART5_CTS, QUADSPI_BK1_IO0, LCD_G3, SWPMI_SUSPEND, SDMMC1_D1, DCMI_D3, LCD_B2, EVENTOUT	-
-	-	-	-	G8	-	-	-	VSS	S	-	-		-
-	-	-	-	-	-	-	L5	VDD	S	-	-		-

Table 8. STM32H743xl pin/ball definition (continued)

			Pin/ba	ıll nam								continueu)	
LQFP100	TFBGA100	LQFP144	UFBGA169	UFBGA176+25	LQFP176	LQFP208	TFBGA240 +25	Pin name (function after reset)	Pin type	I/O structure	Notes	Alternate functions	Additional functions
67	D9	100	E12	F15	119	142	E15	PA8	I/O	FT_ fha	1	MCO1, TIM1_CH1, HRTIM_CHB2, TIM8_BKIN2, I2C3_SCL, USART1_CK, OTG_FS_SOF, UART7_RX, TIM8_BKIN2_COMP12, LCD_B3, LCD_R6, EVENTOUT	-
68	С9	101	E11	E15	120	143	D15	PA9	I/O	FT_u	1	TIM1_CH2, HRTIM_CHC1, LPUART1_TX, I2C3_SMBA, SPI2_SCK/I2S2_CK, USART1_TX, CAN1_RXFD, ETH_TX_ER, DCMI_D0, LCD_R5, EVENTOUT	OTG_FS_VBUS
69	D10	102	E10	D15	121	144	D14	PA10	I/O	FT_u	1	TIM1_CH3, HRTIM_CHC2, LPUART1_RX, USART1_RX, CAN1_TXFD, OTG_FS_ID, MDIOS_MDIO, LCD_B4, DCMI_D1, LCD_B1, EVENTOUT	-
70	C10	103	F13	C15	122	145	E17	PA11	I/O	FT_u	1	TIM1_CH4, HRTIM_CHD1, LPUART1_CTS, SPI2_NSS/I2S2_WS, UART4_RX, USART1_CTS_NSS, CAN1_RX, OTG_FS_DM, LCD_R4, EVENTOUT	-
71	B10	104	E13	B15	123	146	E16	PA12	I/O	FT_u	1	TIM1_ETR, HRTIM_CHD2, LPUART1_RTS, SPI2_SCK/I2S2_CK, UART4_TX, USART1_RTS, SAI2_FS_B, CAN1_TX, OTG_FS_DP, LCD_R5, EVENTOUT	-
72	A10	105	D11	A15	124	147	C15	PA13(JTM S-SWDIO)	I/O	FT	-	JTMS-SWDIO, EVENTOUT	-

Table 8. STM32H743xl pin/ball definition (continued)

			Pin/ba	all nam	е							·	
LQFP100	TFBGA100	LQFP144	UFBGA169	UFBGA176+25	LQFP176	LQFP208	TFBGA240 +25	Pin name (function after reset)	Pin type	I/O structure	Notes	Alternate functions	Additional functions
73	E7	106	D13	F13	125	148	D17	VCAP2	S	-	-	-	-
74	E5	107	-	F12	126	149	-	VSS	S	-	-	-	-
-	-	-	D12	-	-	-	C17	VDDLDO2		-	-	-	-
75	-	108	-	G13	127	150	K5	VDD	S	-	-	-	-
-	-	-	-	E12	128	151	D16	PH13	I/O	FT_h	-	TIM8_CH1N, UART4_TX, CAN1_TX, FMC_D21, LCD_G2, EVENTOUT	-
-	-	-	-	E13	129	152	B17	PH14	I/O	FT_h	-	TIM8_CH2N, UART4_RX, CAN1_RX, FMC_D22, DCMI_D4, LCD_G3, EVENTOUT	-
-	-	-	-	D13	130	153	B16	PH15	I/O	FT_h	-	TIM8_CH3N, CAN1_TXFD, FMC_D23, DCMI_D11, LCD_G4, EVENTOUT	-
-	-	-	A13	E14	131	154	A16	PI0	I/O	FT_h	-	TIM5_CH4, SPI2_NSS/I2S2_WS, CAN1_RXFD, FMC_D24, DCMI_D13, LCD_G5, EVENTOUT	-
-	-	-	-	G9	-	-	-	VSS	S	-	-	-	-
-	-	-	B13	D14	132	155	A15	PI1	I/O	FT_h	-	TIM8_BKIN2, SPI2_SCK/I2S2_CK, TIM8_BKIN2_COMP12, FMC_D25, DCMI_D8, LCD_G6, EVENTOUT	-
-	-	-	A6	C14	133	156	B15	PI2	I/O	FT_h	-	TIM8_CH4, SPI2_MISO/I2S2_SDI, FMC_D26, DCMI_D9, LCD_G7, EVENTOUT	-
-	-	-	В7	C13	134	157	C14	PI3	I/O	FT_h	-	TIM8_ETR, SPI2_MOSI/I2S2_SDO, FMC_D27, DCMI_D10, EVENTOUT	-
-	-	-	-	D9	135	-	-	VSS	S	-	-	-	-
-	-	-	-	C9	136	158	-	VDD	S	-	-	-	-
76	A9	109	B12	A14	137	159	B14	PA14 (JTCK- SWCLK)	I/O	FT	-	JTCK-SWCLK, EVENTOUT	-

Table 8. STM32H743xl pin/ball definition (continued)

			Pin/ba	all nam	е			•				,	
LQFP100	TFBGA100	LQFP144	UFBGA169	UFBGA176+25	LQFP176	LQFP208	TFBGA240 +25	Pin name (function after reset)	Pin type	I/O structure	Notes	Alternate functions	Additional functions
77	A8	110	C11	A13	138	160	A14	PA15 (JTDI)	I/O	FT	-	JTDI, TIM2_CH1/TIM2_ETR, HRTIM_FLT1, HDMI_CEC, SPI1_NSS/I2S1_WS, SPI3_NSS/I2S3_WS, SPI6_NSS, UART4_RTS, UART7_TX, EVENTOUT	-
78	В9	111	A12	B14	139	161	A13	PC10	I/O	FT_ ha	-	HRTIM_EEV1, DFSDM_CKIN5, SPI3_SCK/I2S3_CK, USART3_TX, UART4_TX, QUADSPI_BK1_IO1, SDMMC1_D2, DCMI_D8, LCD_R2, EVENTOUT	-
79	В8	112	B11	B13	140	162	B13	PC11	I/O	FT_h	-	HRTIM_FLT2, DFSDM_DATIN5, SPI3_MISO/I2S3_SDI, USART3_RX, UART4_RX, QUADSPI_BK2_NCS, SDMMC1_D3, DCMI_D4, EVENTOUT	-
80	C8	113	A11	A12	141	163	C12	PC12	I/O	FT_h	-	TRACED3, HRTIM_EEV2, SPI3_MOSI/I2S3_SDO, USART3_CK, UART5_TX, SDMMC1_CK, DCMI_D9, EVENTOUT	-
-	-	-	-	G10	-	-	-	VSS	S	-	-	-	-
81	D8	114	D10	B12	142	164	D13	PD0	I/O	FT_h	-	DFSDM_CKIN6, SAI3_SCK_A, UART4_RX, CAN1_RX, FMC_D2/FMC_DA2, EVENTOUT	-
82	E8	115	C10	C12	143	165	E12	PD1	I/O	FT_h	-	DFSDM_DATIN6, SAI3_SD_A, UART4_TX, CAN1_TX, FMC_D3/FMC_DA3, EVENTOUT	-
83	В7	116	E9	D12	144	166	D12	PD2	I/O	FT_h	-	TRACED2, TIM3_ETR, UART5_RX, SDMMC1_CMD, DCMI_D11, EVENTOUT	-

Table 8. STM32H743xl pin/ball definition (continued)

			Pin/ba	all nam				•				continueu)	
LQFP100	TFBGA100	LQFP144	UFBGA169	UFBGA176+25	LQFP176	LQFP208	TFBGA240 +25	Pin name (function after reset)	Pin type	I/O structure	Notes	Alternate functions	Additional functions
84	C7	117	D9	D11	145	167	B12	PD3	I/O	FT_h	-	DFSDM_CKOUT, SPI2_SCK/I2S2_CK, USART2_CTS_NSS, FMC_CLK, DCMI_D5, LCD_G7, EVENTOUT	-
85	D7	118	C9	D10	146	168	A12	PD4	I/O	FT_h	-	HRTIM_FLT3, SAI3_FS_A, USART2_RTS, CAN1_RXFD, FMC_NOE, EVENTOUT	·
86	В6	119	A9	C11	147	169	A11	PD5	I/O	FT_h	-	HRTIM_EEV3, USART2_TX, CAN1_TXFD, FMC_NWE, EVENTOUT	ı
-	-	120	-	D8	148	170	R4	VSS	S	-	-	-	-
-	-	121	-	C8	149	171	-	VDD	S	-	-	-	-
87	C6	122	B9	B11	150	172	B11	PD6	I/O	FT_h	-	SAI1_D1, DFSDM_CKIN4, DFSDM_DATIN1, SPI3_MOSI/I2S3_SDO, SAI1_SD_A, USART2_RX, SAI4_SD_A, CAN2_RXFD, SAI4_D1, SDMMC2_CK, FMC_NWAIT, DCMI_D10, LCD_B2, EVENTOUT	-
88	D6	123	D8	A11	151	173	C11	PD7	I/O	FT_h	-	DFSDM_DATIN4, SPI1_MOSI/I2S1_SDO, DFSDM_CKIN1, USART2_CK, SPDIFRX_IN0, SDMMC2_CMD, FMC_NE1, EVENTOUT	-
-	ı	1	-	1	1	174	D11	PJ12	I/O	FT	-	TRGOUT, LCD_G3, LCD_B0, EVENTOUT	-
-	-	-	-	-	-	175	E10	PJ13	I/O	FT	-	LCD_B4, LCD_B1, EVENTOUT	-
-	-	-	1	-	ı	176	D10	PJ14	I/O	FT	-	LCD_B2, EVENTOUT	-
-	-	-	-	-	-	177	B10	PJ15	I/O	FT	-	LCD_B3, EVENTOUT	-
-	1	-	1	H6	1	1	-	VSS	S	-	-	-	-
-	-	-	A7	-	-	-	-	VDD	S	-	-	-	-

Table 8. STM32H743xl pin/ball definition (continued)

			Pin/ba	all nam	е			-					
LQFP100	TFBGA100	LQFP144	UFBGA169	UFBGA176+25	LQFP176	LQFP208	TFBGA240 +25	Pin name (function after reset)	Pin type	I/O structure	Notes	Alternate functions	Additional functions
-	1	124	C8	C10	152	178	A10	PG9	I/O	FT_h	-	SPI1_MISO/I2S1_SDI, USART6_RX, SPDIFRX_IN3, QUADSPI_BK2_IO2, SAI2_FS_B, FMC_NE2/FMC_NCE, DCMI_VSYNC, EVENTOUT	-
-	-	125	A8	B10	153	179	A9	PG10	I/O	FT_h	-	HRTIM_FLT5, SPI1_NSS/I2S1_WS, LCD_G3, SAI2_SD_B, FMC_NE3, DCMI_D2, LCD_B2, EVENTOUT	-
-	1	126	В8	В9	154	180	В9	PG11	I/O	FT_h	-	HRTIM_EEV4, SPI1_SCK/I2S1_CK, SPDIFRX_IN0, SDMMC2_D2, ETH_MII_TX_EN/ETH_R MII_TX_EN, DCMI_D3, LCD_B3, EVENTOUT	-
-	1	127	E8	В8	155	181	C9	PG12	I/O	FT_h	-	LPTIM1_IN1, HRTIM_EEV5, SPI6_MISO, USART6_RTS, SPDIFRX_IN1, LCD_B4, ETH_MII_TXD1/ETH_RM II_TXD1, FMC_NE4, LCD_B1, EVENTOUT	-
-	1	128	D7	A8	156	182	D9	PG13	I/O	FT_h	-	TRACEDO, LPTIM1_OUT, HRTIM_EEV10, SPI6_SCK, USART6_CTS_NSS, ETH_MII_TXD0/ETH_RM II_TXD0, FMC_A24, LCD_R0, EVENTOUT	
-	-	129	C7	A7	157	183	D8	PG14	I/O	FT_h	-	TRACED1, LPTIM1_ETR, SPI6_MOSI, USART6_TX, QUADSPI_BK2_IO3, ETH_MII_TXD1/ETH_RM II_TXD1, FMC_A25, LCD_B0, EVENTOUT	-
-	-	130	-	D7	158	184	1	VSS	S	-	-	-	-
-	-	131	-	C7	159	185	-	VDD	S	-	-	-	-

Table 8. STM32H743xl pin/ball definition (continued)

			Pin/ba	all nam								Continued)	
LQFP100	TFBGA100	LQFP144	UFBGA169	UFBGA176+25	LQFP176	LQFP208	TFBGA240 +25	Pin name (function after reset)	Pin type	I/O structure	Notes	Alternate functions	Additional functions
-	-	-	-	-	-	186	C8	PK3	I/O	FT	-	LCD_B4, EVENTOUT	-
-	1	-	-	-	-	187	В8	PK4	I/O	FT	-	LCD_B5, EVENTOUT	-
-	-	-	-	-	-	188	A8	PK5	I/O	FT	1	LCD_B6, EVENTOUT	-
-	-	-	-	-	-	189	C7	PK6	I/O	FT	-	LCD_B7, EVENTOUT	-
-	1	-	-	-	-	190	D7	PK7	I/O	FT	-	LCD_DE, EVENTOUT	-
-	-	-	-	H7	-	-	-	VSS	S	-	-	-	-
-	-	132	E7	В7	160	191	D6	PG15	I/O	FT_h	-	USART6_CTS_NSS, FMC_SDNCAS, DCMI_D13, EVENTOUT	-
89	A7	133	F7	A10	161	192	C6	PB3(JTDO /TRACES WO)	I/O	FT	1	JTDO/TRACESWO, TIM2_CH2, HRTIM_FLT4, SPI1_SCK/I2S1_CK, SPI3_SCK/I2S3_CK, SPI6_SCK, SDMMC2_D2, UART7_RX, EVENTOUT	ı
90	A6	134	В6	A9	162	193	В7	PB4(NJTR ST)	I/O	FT	-	NJTRST, TIM16_BKIN, TIM3_CH1, HRTIM_EEV6, SPI1_MISO/I2S1_SDI, SPI3_MISO/I2S3_SDI, SPI2_NSS/I2S2_WS, SPI6_MISO, SDMMC2_D3, UART7_TX, EVENTOUT	-
91	C5	135	C6	A6	163	194	A5	PB5	I/O	FT	-	TIM17_BKIN, TIM3_CH2, HRTIM_EEV7, I2C1_SMBA, SPI1_MOSI/I2S1_SDO, I2C4_SMBA, SPI3_MOSI/I2S3_SDO, SPI6_MOSI, CAN2_RX, OTG_HS_ULPI_D7, ETH_PPS_OUT, FMC_SDCKE1, DCMI_D10, UART5_RX, EVENTOUT	-
-	-	-	-	Н8	-	-	-	VSS	S	-	-	-	-

Table 8. STM32H743xl pin/ball definition (continued)

			Pin/ba	all nam								Continued)	
LQFP100	TFBGA100	LQFP144	UFBGA169	UFBGA176+25	LQFP176	LQFP208	TFBGA240 +25	Pin name (function after reset)	Pin type	I/O structure	Notes	Alternate functions	Additional functions
92	B5	136	A5	B6	164	195	B5	PB6	I/O	FT_f	-	TIM16_CH1N, TIM4_CH1, HRTIM_EEV8, I2C1_SCL, HDMI_CEC, I2C4_SCL, USART1_TX, LPUART1_TX, CAN2_TX, QUADSPI_BK1_NCS, DFSDM_DATIN5, FMC_SDNE1, DCMI_D5, UART5_TX, EVENTOUT	-
93	A5	137	D6	B5	165	196	C5	PB7	I/O	FT_fa	-	TIM17_CH1N, TIM4_CH2, HRTIM_EEV9, I2C1_SDA, I2C4_SDA, USART1_RX, LPUART1_RX, CAN2_TXFD, DFSDM_CKIN5, FMC_NL, DCMI_VSYNC, EVENTOUT	PVD_IN
94	D5	138	E6	D6	166	197	E8	воото	I	В	-	-	VPP
95	B4	139	B5	A5	167	198	D5	PB8	I/O	FT_fh	-	TIM16_CH1, TIM4_CH3, DFSDM_CKIN7, I2C1_SCL, I2C4_SCL, SDMMC1_CKIN, UART4_RX, CAN1_RX, SDMMC2_D4, ETH_MII_TXD3, SDMMC1_D4, DCMI_D6, LCD_B6, EVENTOUT	-
96	A4	140	C5	B4	168	199	D4	PB9	I/O	FT_fh	-	TIM17_CH1, TIM4_CH4, DFSDM_DATIN7, I2C1_SDA, SPI2_NSS/I2S2_WS, I2C4_SDA, SDMMC1_CDIR, UART4_TX, CAN1_TX, SDMMC2_D5, I2C4_SMBA, SDMMC1_D5, DCMI_D7, LCD_B7, EVENTOUT	-

Table 8. STM32H743xl pin/ball definition (continued)

			Pin/ba	all nam								(continued)	
LQFP100	TFBGA100	LQFP144	UFBGA169	UFBGA176+25	LQFP176	LQFP208	TFBGA240 +25	Pin name (function after reset)	Pin type	I/O structure	Notes	Alternate functions	Additional functions
97	D4	141	D5	A4	169	200	C4	PE0	I/O	FT_h	-	LPTIM1_ETR, TIM4_ETR, HRTIM_SCIN, LPTIM2_ETR, UART8_RX, CAN1_RXFD, SAI2_MCK_A, FMC_NBL0, DCMI_D2, EVENTOUT	-
98	C4	142	D4	А3	170	201	B4	PE1	I/O	FT_h	-	LPTIM1_IN2, HRTIM_SCOUT, UART8_TX, CAN1_TXFD, FMC_NBL1, DCMI_D3, EVENTOUT	-
-	ı	ı	1	-	ı	-	A7	VCAP3	S	-	-	-	-
99	ı	ı	ı	D5	1	202	ı	VSS	S	-	-	-	-
-	F7	143	C4	C6	171	203	E7	PDR_ON	S	-	-	-	-
-	F4	-	B4	-	-	-	A6	VDDLDO3	S	-	-	-	-
100	-	144	-	C5	172	204	-	VDD	S	-	-	-	-
-	1	-	-	D4	173	205	A4	Pl4	I/O	FT_h	-	TIM8_BKIN, SAI2_MCK_A, TIM8_BKIN_COMP12, FMC_NBL2, DCMI_D5, LCD_B4, EVENTOUT	-
-	-	-	-	C4	174	206	А3	PI5	I/O	FT_h	_	TIM8_CH1, SAI2_SCK_A, FMC_NBL3, DCMI_VSYNC, LCD_B5, EVENTOUT	-
-	1	1	A4	С3	175	207	A2	PI6	I/O	FT_h	-	TIM8_CH2, SAI2_SD_A, FMC_D28, DCMI_D6, LCD_B6, EVENTOUT	-
-	1	-	E2	C2	176	208	В3	PI7	I/O	FT_h	-	TIM8_CH3, SAI2_FS_A, FMC_D29, DCMI_D7, LCD_B7, EVENTOUT	-
-	-	-	-	Н9	-	-	-	VSS	S	-	-	-	-
-	-	-	1	K9	-	-	-	VSS	S	-	-	-	-
-	-	-	-	K10	-	-	-	VSS	S	-	-	-	-

^{1.} This ball should remain floating.

^{2.} This ball should not remain floating. It can be connected to VSS or VDD. It is reserved for future use.