Table 10. Port A alternate functions

Port	AF0	AF1	AF2	AF3	AF4	AF5	AF6	AF7	AF8	AF9	AF10	AF11	AF12	AF13	AF14	AF15
	SYS	TIM1/2/16/17/LPTIM1/HRTIM1	SAI1/TIM3/4/5/12/HRTIM1	LPUART/TIM8/4/5/HRTIM1/DFSDM1	I2C1/2/3/4/USART1/TIM15/LPTIM2/DFSDM1/CEC	SPI1/2/3/4/5/6/CEC	SPI2/3/SAI1/3/I2C4/UART4/DFSDM1	SPI2/3/6/USART1/2/3/6/UART7/SDMMC1	SPI6/SAI2/4/UART4/5/8/LPUART/SDMMC1/SPDIFRX1	SAI4/FDCAN1/2/TIM13/14/QUADSPI/FMC/SDMMC2/LCD/SPDIFRX1	SAI2/4/TIM8/QUADSPI/SDMMC2/OTG1_HS/OTG2_FS/LCD	I2C4/UART7/SWPMI1/TIM1/8/DFSDM1/SDMMC2/MDIOS/ETH	TIM1/8/FMC/SDMMC1/MDIOS/OTG1_FS/LCD	TIM1/DCMI/LCD/COMP	UART5/LCD	SYS
PA0	-	TIM2_CH1/TIM2_ETR	TIM5_CH1	TIM8_ETR	TIM15_BKIN	-	-	USART2_CTS/USART2_NSS	UART4_TX	SDMMC2_CMD	SAI2_SD_B	ETH_MII_CRS	-	-	-	EVENT-OUT
PA1	-	TIM2_CH2	TIM5_CH2	LPTIM3_OUT	TIM15_CH1N	-	-	USART2_RTS/USART2_DE	UART4_RX	QUADSPI_BK1_IO3	SAI2_MCLK_B	ETH_MII_RX_CLK/ETH_RMII_REF_CLK	-	-	LCD_R2	EVENT-OUT
PA2	-	TIM2_CH3	TIM5_CH3	LPTIM4_OUT	TIM15_CH1	-	-	USART2_TX	SAI2_SCK_B	-	-	ETH_MDIO	MDIOS_MDIO	-	LCD_R1	EVENT-OUT
PA3	-	TIM2_CH4	TIM5_CH4	LPTIM5_OUT	TIM15_CH2	-	-	USART2_RX	-	LCD_B2	OTG_HS_ULPI_D0	ETH_MII_COL	-	-	LCD_B5	EVENT-OUT
PA4	D1 PWREN	-	TIM5_ETR	-	-	SPI1_NSS/I2S1_WS	SPI3_NSS/I2S3_WS	USART2_CK	SPI6_NSS	-	-	-	OTG_HS_SOF	DCMI_HSYNC	LCD_VSYNC	EVENT-OUT
PA5	D2 PWREN	TIM2_CH1/TIM2_ETR	-	TIM8_CH1N	-	SPI1_SCK/I2S1_CK	-	-	SPI6_SCK	-	OTG_HS_ULPI_CK	-	-	-	LCD_R4	EVENT-OUT
PA6	-	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	EVENT-OUT
PA7	-	TIM1_CH1N	TIM3_CH2	TIM8_CH1N	-	SPI1_MOSI/I2S1_SDO	-	-	SPI6_MOSI	TIM14_CH1	-	ETH_MII_RX_DV/ETH_RMII_CRS_DV	FMC_SDNWE	-	-	EVENT-OUT
PA8	MCO1	TIM1_CH1	HRTIM_CHB2	TIM8_BKIN2	I2C3_SCL	-	-	USART1_CK	-	-	OTG_FS_SOF	UART7_RX	TIM8_BKIN2_COMP12	LCD_B3	LCD_R6	EVENT-OUT
PA9	-	TIM1_CH2	HRTIM_CHC1	LPUART1_TX	I2C3_SMBA	SPI2_SCK/I2S2_CK	-	USART1_TX	-	FDCAN1_RXFD_MODE	-	-	-	DCMI_D0	LCD_R5	EVENT-OUT
PA10	-	TIM1_CH3	HRTIM_CHC2	LPUART1_RX	-	-	-	USART1_RX	-	FDCAN1_TXFD_MODE	OTG_FS_ID	MDIOS_MDIO	LCD_B4	DCMI_D1	LCD_B1	EVENT-OUT
PA11	-	TIM1_CH4	HRTIM_CHD1	LPUART1_CTS	-	SPI2_NSS/I2S2_WS	UART4_RX	USART1_CTS/USART1_NSS	-	FDCAN1_RX	OTG_FS_DM	-	-	-	LCD_R4	EVENT-OUT
PA12	-	TIM1_ETR	HRTIM_CHD2	LPUART1_RTS/LPUART1_DE	-	SPI2_SCK/I2S2_CK	UART4_TX	USART1_RTS/USART1_DE	SAI2_FS_B	FDCAN1_TX	OTG_FS_DP	-	-	-	LCD_R5	EVENT-OUT

Port A

Pin descriptions

STM32H742xI/G STM32H743xI/G

Table 10. Port A alternate functions (continued)

Port		AF0 SYS	AF1 TIM1/2/16/17/LPTIM1/HRTIM1	AF2 SAI1/TIM3/4/5/12/HRTIM1	AF3 LPUART/TIM8/LPTIM2/3/4/5/HRTIM1/DFSDM1	AF4 I2C1/2/3/4/USART1/TIM15/LPTIM2/DFSDM1/CEC	AF5 SPI1/2/3/4/5/6/CEC	AF6 SPI2/3/SAI1/3/I2C4/UART4/DFSDM1	AF7 SPI2/3/6/USART1/2/3/6/UART7/SDMMC1	AF8 SPI6/SAI2/4/UART4/5/8/LPUART/SDMMC1/SPDIFRX1	AF9 SAI4/FDCAN1/2/TIM13/14/QUADSPI/FMC/SDMMC2/LCD/SPDIFRX1	AF10 SAI2/4/TIM8/QUADSPI/SDMMC2/OTG1_HS/OTG2_FS/LCD	AF11 I2C4/UART7/SWPMI1/TIM1/8/DFSDM1/SDMMC2/MDIOS/ETH	AF12 TIM1/8/FMC/SDMMC1/MDIOS/OTG1_FS/LCD	AF13 TIM1/DCMI/LCD/COMP	AF14 UART5/LCD	AF15 SYS
Port A	PA13	JTMS-SWDIO	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EVENT-OUT
	PA14	JTCK-SWCLK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EVENT-OUT
	PA15	JTDI	TIM2_CH1/TIM2_ETR	HRTIM_FLT1	-	CEC	SPI1_NSS/I2S1_WS	SPI3_NSS/I2S3_WS	SPI6_NSS	UART4_RTS/UART4_DE	-	-	UART7_TX	-	-	-	EVENT-OUT

Table 11. Port B alternate functions

Port		AF0 SYS	AF1 TIM1/2/16/17/LPTIM1/HRTIM1	AF2 SAI1/TIM3/4/5/12/HRTIM1	AF3 LPUART/TIM8/LPTIM2/3/4/5/HRTIM1/DFSDM1	AF4 I2C1/2/3/4/USART1/TIM15/LPTIM2/DFSDM1/CEC	AF5 SPI1/2/3/4/5/6/CEC	AF6 SPI2/3/SAI1/3/I2C4/UART4/DFSDM1	AF7 SPI2/3/6/USART1/2/3/6/UART7/SDMMC1	AF8 SPI6/SAI2/4/UART4/5/8/LPUART/SDMMC1/SPDIFRX1	AF9 SAI4/FDCAN1/2/TIM13/14/QUADSPI/FMC/SDMMC2/LCD/SPDIFRX1	AF10 SAI2/4/TIM8/QUADSPI/SDMMC2/OTG1_HS/OTG2_FS/LCD	AF11 I2C4/UART7/SWPMI1/TIM1/8/DFSDM1/SDMMC2/MDIOS/ETH	AF12 TIM1/8/FMC/SDMMC1/MDIOS/OTG1_FS/LCD	AF13 TIM1/DCMI/LCD/COMP	AF14 UART5/LCD	AF15 SYS
Port B	PB0	-	TIM1_CH2N	TIM3_CH3	TIM8_CH2N	-	-	DFSDM1_CKOUT	-	UART4_CTS	LCD_R3	OTG_HS_ULPI_D1	ETH_MII_RXD2	-	-	LCD_G1	EVENT-OUT
	PB1	-	TIM1_CH3N	TIM3_CH4	TIM8_CH3N	-	-	DFSDM1_DATIN1	-	-	LCD_R6	OTG_HS_ULPI_D2	ETH_MII_RXD3	-	-	LCD_G0	EVENT-OUT
	PB2	RTC_OUT	-	SAI1_D1	-	DFSDM1_CKIN1	-	SAI1_SD_A	SPI3_MOSI/I2S3_SDO	SAI4_SD_A	QUADSPI_CLK	SAI4_D1	-	-	-	-	EVENT-OUT
	PB3	JTDO/TRACESWO	TIM2_CH2	HRTIM_FLT4	-	-	SPI1_SCK/I2S1_CK	SPI3_SCK/I2S3_CK	-	SPI6_SCK	SDMMC2_D2	CRS_SYNC	UART7_RX	-	-	-	EVENT-OUT
	PB4	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	-	-	-	EVENT-OUT
	PB5	-	TIM17_BKIN	TIM3_CH2	HRTIM_EEV7	I2C1_SMBA	SPI1_MOSI/I2S1_SDO	I2C4_SMBA	SPI3_MOSI/I2S3_SDO	SPI6_MOSI	FDCAN2_RX	OTG_HS_ULPI_D7	ETH_PPS_OUT	FMC_SDCKE1	DCMI_D10	UART5_RX	EVENT-OUT
	PB6	-	TIM16_CH1N	TIM4_CH1	HRTIM_EEV8	I2C1_SCL	CEC	I2C4_SCL	USART1_TX	LPUART1_TX	FDCAN2_TX	QUADSPI_BK1_NCS	DFSDM1_DATIN5	FMC_SDNE1	DCMI_D5	UART5_TX	EVENT-OUT
	PB7	-	TIM17_CH1N	TIM4_CH2	HRTIM_EEV9	I2C1_SDA	-	I2C4_SDA	USART1_RX	LPUART1_RX	FDCAN2_TXFD_MODE	-	DFSDM1_CKIN5	FMC_NL	DCMI_VSYNC	-	EVENT-OUT

Table 11. Port B alternate functions (continued)

Port	AF0 SYS	AF1 TIM1/2/16/17/LPTIM1/HRTIM1	AF2 SAI1/TIM3/4/5/12/HRTIM1	AF3 LPUART/TIM8/LPTIM2/3/4/5/HRTIM1/DFSDM1	AF4 I2C1/2/3/4/USART1/TIM15/LPTIM2/DFSDM1/CEC	AF5 SPI1/2/3/4/5/6/CEC	AF6 SPI2/3/SAI1/3/I2C4/UART4/DFSDM1	AF7 SPI2/3/6/USART1/2/3/6/UART7/SDMMC1	AF8 SPI6/SAI2/4/UART4/5/8/LPUART/SDMMC1/SPDIFRX1	AF9 SAI4/FDCAN1/2/TIM13/14/QUADSPI/FMC/SDMMC2/LCD/SPDIFRX1	AF10 SAI2/4/TIM8/QUADSPI/SDMMC2/OTG1_HS/OTG2_FS/LCD	AF11 I2C4/UART7/SWPMI1/TIM1/8/DFSDM1/SDMMC2/MDIOS/ETH	AF12 TIM1/8/FMC/SDMMC1/MDIOS/OTG1_FS/LCD	AF13 TIM1/DCMI/LCD/COMP	AF14 UART5/LCD	AF15 SYS
PB8	-	TIM16_CH1	TIM4_CH3	DFSDM1_CKIN7	I2C1_SCL	-	I2C4_SCL	SDMMC1_CKIN	UART4_RX	FDCAN1_RX	SDMMC2_D4	ETH_MII_TXD3	SDMMC1_D4	DCMI_D6	LCD_B6	EVENT-OUT
PB9	-	TIM17_CH1	TIM4_CH4	DFSDM1_DATIN7	I2C1_SDA	SPI2_NSS/I2S2_WS	I2C4_SDA	SDMMC1_CDIR	UART4_TX	FDCAN1_TX	SDMMC2_D5	I2C4_SMBA	SDMMC1_D5	DCMI_D7	LCD_B7	EVENT-OUT
PB10	-	TIM2_CH3	HRTIM_SCOUT	LPTIM2_IN1	I2C2_SCL	SPI2_SCK/I2S2_CK	DFSDM1_DATIN7	USART3_TX	-	QUADSPI_BK1_NCS	OTG_HS_ULPI_D3	ETH_MII_RX_ER	-	-	LCD_G4	EVENT-OUT
PB11	-	TIM2_CH4	HRTIM_SCIN	LPTIM2_ETR	I2C2_SDA	-	DFSDM1_CKIN7	USART3_RX	-	-	OTG_HS_ULPI_D4	ETH_MII_TX_EN/ETH_RMII_TX_EN	-	-	LCD_G5	EVENT-OUT
PB12	-	TIM1_BKIN	-	-	I2C2_SMBA	SPI2_NSS/I2S2_WS	DFSDM1_DATIN1	USART3_CK	-	FDCAN2_RX	OTG_HS_ULPI_D5	ETH_MII_TXD0/ETH_RMII_TXD0	OTG_HS_ID	TIM1_BKIN_COMP12	UART5_RX	EVENT-OUT
PB13	-	TIM1_CH1N	-	LPTIM2_OUT	-	SPI2_SCK/I2S2_CK	DFSDM1_CKIN1	USART3_CTS/USART3_NSS	-	FDCAN2_TX	OTG_HS_ULPI_D6	ETH_MII_TXD1/ETH_RMII_TXD1	-	-	UART5_TX	EVENT-OUT
PB14	-	TIM1_CH2N	TIM12_CH1	TIM8_CH2N	USART1_TX	SPI2_MISO/I2S2_SDI	DFSDM1_DATIN2	USART3_RTS/USART3_DE	UART4_RTS/UART4_DE	SDMMC2_D0	-	-	OTG_HS_DM	-	-	EVENT-OUT
PB15	RTC_REFIN	TIM1_CH3N	TIM12_CH2	TIM8_CH3N	USART1_RX	SPI2_MOSI/I2S2_SDO	DFSDM1_CKIN2	-	UART4_CTS	SDMMC2_D1	-	-	OTG_HS_DP	-	-	EVENT-OUT

Table 12. Port C alternate functions

	Port	AF0	AF1	AF2	AF3	AF4	AF5	AF6	AF7	AF8	AF9	AF10	AF11	AF12	AF13	AF14	AF15
		SYS	TIM1/2/16/17/LPTIM1/HRTIM1	SAI1/TIM3/4/5/12/HRTIM1	LPUART/TIM8/LPTIM2/3/4/5/HRTIM1/DFSDM1	I2C1/2/3/4/USART1/TIM15/LPTIM2/DFSDM1/CEC	SPI1/2/3/4/5/6/CEC	SPI2/3/SAI1/3/I2C4/UART4/DFSDM1	SPI2/3/6/USART1/2/3/6/UART7/SDMMC1	SPI6/SAI2/4/UART4/5/8/LPUART/SDMMC1/SPDIFRX1	SAI4/FDCAN1/2/TIM13/14/QUADSPI/FMC/SDMMC2/LCD/SPDIFRX1	SAI2/4/TIM8/QUADSPI/SDMMC2/OTG1_HS/OTG2_FS/LCD	I2C4/UART7/SWPMI1/TIM1/8/DFSDM1/SDMMC2/MDIOS/ETH	TIM1/8/FMC/SDMMC1/MDIOS/OTG1_FS/LCD	TIM1/DCMI/LCD/COMP	UART5/LCD	SYS
Port C	PC0	-	-	-	DFSDM1_CKIN0	-	-	DFSDM1_DATIN4	-	SAI2_FS_B	-	OTG_HS_ULPI_STP	-	FMC_SDNWE	-	LCD_R5	EVENT-OUT
	PC1	TRACED0	-	SAI1_D1	DFSDM1_DATIN0	DFSDM1_CKIN4	SPI2_MOSI/I2S2_SDO	SAI1_SD_A	-	SAI4_SD_A	SDMMC2_CK	SAI4_D1	ETH_MDC	MDIOS_MDC	-	-	EVENT-OUT
	PC2	CDSLEEP	-	-	DFSDM1_CKIN1	-	SPI2_MISO/I2S2_SDI	DFSDM1_CKOUT	-	-	-	OTG_HS_ULPI_DIR	ETH_MII_TXD2	FMC_SDNE0	-	-	EVENT-OUT
	PC3	CSLEEP	-	-	DFSDM1_DATIN1	-	SPI2_MOSI/I2S2_SDO	-	-	-	-	OTG_HS_ULPI_NXT	ETH_MII_TX_CLK	FMC_SDCKE0	-	-	EVENT-OUT
	PC4	-	-	-	DFSDM1_CKIN2	-	I2S1_MCK	-	-	-	SPDIFRX1_IN3	-	ETH_MII_RXD0/ETH_RMII_RXD0	FMC_SDNE0	-	-	EVENT-OUT
	PC5	-	-	SAI1_D3	DFSDM1_DATIN2	-	-	-	-	-	SPDIFRX1_IN4	SAI4_D3	ETH_MII_RXD1/ETH_RMII_RXD1	FMC_SDCKE0	COMP1_OUT	-	EVENT-OUT
	PC6	-	HRTIM_CHA1	TIM3_CH1	TIM8_CH1	DFSDM1_CKIN3	I2S2_MCK	-	USART6_TX	SDMMC1_D0DIR	FMC_NWAIT	SDMMC2_D6	-	SDMMC1_D6	DCMI_D0	LCD_HSYNC	EVENT-OUT
	PC7	TRGIO	HRTIM_CHA2	TIM3_CH2	TIM8_CH2	DFSDM1_DATIN3	-	I2S3_MCK	USART6_RX	SDMMC1_D123DIR	FMC_NE1	SDMMC2_D7	SWPMI_TX	SDMMC1_D7	DCMI_D1	LCD_G6	EVENT-OUT
	PC8	TRACED1	HRTIM_CHB1	TIM3_CH3	TIM8_CH3	-	-	-	USART6_CK	UART5_RTS/UART5_DE	FMC_NE2/FMC_NCE	-	SWPMI_RX	SDMMC1_D0	DCMI_D2	-	EVENT-OUT
	PC9	MCO2	-	TIM3_CH4	TIM8_CH4	I2C3_SDA	I2S_CKIN	-	-	UART5_CTS	QUADSPI_BK1_IO0	LCD_G3	SWPMI_SUSPEND	SDMMC1_D1	DCMI_D3	LCD_B2	EVENT-OUT
	PC10	-	-	HRTIM_EEV1	DFSDM1_CKIN5	-	-	SPI3_SCK/I2S3_CK	USART3_TX	UART4_TX	QUADSPI_BK1_IO1	-	-	SDMMC1_D2	DCMI_D8	LCD_R2	EVENT-OUT
	PC11	-	-	HRTIM_FLT2	DFSDM1_DATIN5	-	-	SPI3_MISO/I2S3_SDI	USART3_RX	UART4_RX	QUADSPI_BK2_NCS	-	-	SDMMC1_D3	DCMI_D4	-	EVENT-OUT
	PC12	TRACED3	-	HRTIM_EEV2	-	-	-	SPI3_MOSI/I2S3_SDO	USART3_CK	UART5_TX	-	-	-	SDMMC1_CK	DCMI_D9	-	EVENT-OUT
	PC13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EVENT-OUT

Table 12. Port C alternate functions (continued)

		AF0	AF1	AF2	AF3	AF4	AF5	AF6	AF7	AF8	AF9	AF10	AF11	AF12	AF13	AF14	AF15
	Port	SYS	TIM1/2/16/17/LPTIM1/HRTIM1	SAI1/TIM3/4/5/12/HRTIM1	LPUART/TIM8/LPTIM2/3/4/5/HRTIM1/DFSDM1	I2C1/2/3/4/USART1/TIM15/LPTIM2/DFSDM1/CEC	SPI1/2/3/4/5/6/CEC	SPI2/3/SAI1/3/I2C4/UART4/DFSDM1	SPI2/3/6/USART1/2/3/6/UART7/SDMMC1	SPI6/SAI2/4/UART4/5/8/LPUART/SDMMC1/SPDIFRX1	SAI4/FDCAN1/2/TIM13/14/QUADSPI/FMC/SDMMC2/LCD/SPDIFRX1	SAI2/4/TIM8/QUADSPI/SDMMC2/OTG1_HS/OTG2_FS/LCD	I2C4/UART7/SWPMI1/TIM1/8/DFSDM1/SDMMC2/MDIOS/ETH	TIM1/8/FMC/SDMMC1/MDIOS/OTG1_FS/LCD	TIM1/DCMI/LCD/COMP	UART5/LCD	SYS
Port C	PC14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EVENT-OUT
	PC15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EVENT-OUT

Table 13. Port D alternate functions

		AF0	AF1	AF2	AF3	AF4	AF5	AF6	AF7	AF8	AF9	AF10	AF11	AF12	AF13	AF14	AF15
	Port	SYS	TIM1/2/16/17/LPTIM1/HRTIM1	SAI1/TIM3/4/5/12/HRTIM1	LPUART/TIM8/LPTIM2/3/4/5/HRTIM1/DFSDM1	I2C1/2/3/4/USART1/TIM15/LPTIM2/DFSDM1/CEC	SPI1/2/3/4/5/6/CEC	SPI2/3/SAI1/3/I2C4/UART4/DFSDM1	SPI2/3/6/USART1/2/3/6/UART7/SDMMC1	SPI6/SAI2/4/UART4/5/8/LPUART/SDMMC1/SPDIFRX1	SAI4/FDCAN1/2/TIM13/14/QUADSPI/FMC/SDMMC2/LCD/SPDIFRX1	SAI2/4/TIM8/QUADSPI/SDMMC2/OTG1_HS/OTG2_FS/LCD	I2C4/UART7/SWPMI1/TIM1/8/DFSDM1/SDMMC2/MDIOS/ETH	TIM1/8/FMC/SDMMC1/MDIOS/OTG1_FS/LCD	TIM1/DCMI/LCD/COMP	UART5/LCD	SYS
Port D	PD0	-	-	-	DFSDM1_CKIN6	-	-	SAI3_SCK_A	-	UART4_RX	FDCAN1_RX	-	-	FMC_D2/FMC_DA2	-	-	EVENT-OUT
	PD1	-	-	-	DFSDM1_DATIN6	-	-	SAI3_SD_A	-	UART4_TX	FDCAN1_TX	-	-	FMC_D3/FMC_DA3	-	-	EVENT-OUT
	PD2	TRACED2	-	TIM3_ETR	-	-	-	-	-	UART5_RX	-	-	-	SDMMC1_CMD	DCMI_D11	-	EVENT-OUT
	PD3	-	-	-	DFSDM1_CKOUT	-	SPI2_SCK/I2S2_CK	-	USART2_CTS/USART2_NSS	-	-	-	-	FMC_CLK	DCMI_D5	LCD_G7	EVENT-OUT
	PD4	-	-	HRTIM_FLT3	-	-	-	SAI3_FS_A	USART2_RTS/USART2_DE	-	FDCAN1_RXFD_MODE	-	-	FMC_NOE	-	-	EVENT-OUT
	PD5	-	-	HRTIM_EEV3	-	-	-	-	USART2_TX	-	FDCAN1_TXFD_MODE	-	-	FMC_NWE	-	-	EVENT-OUT
	PD6	-	-	SAI1_D1	DFSDM1_CKIN4	DFSDM1_DATIN1	SPI3_MOSI/I2S3_SDO	SAI1_SD_A	USART2_RX	SAI4_SD_A	FDCAN2_RXFD_MODE	SAI4_D1	SDMMC2_CK	FMC_NWAIT	DCMI_D10	LCD_B2	EVENT-OUT
	PD7	-	-	-	DFSDM1_DATIN4	-	SPI1_MOSI/I2S1_SDO	DFSDM1_CKIN1	USART2_CK	-	SPDIFRX1_IN1	-	SDMMC2_CMD	FMC_NE1	-	-	EVENT-OUT

Table 13. Port D alternate functions (continued)

Port	AF0	AF1	AF2	AF3	AF4	AF5	AF6	AF7	AF8	AF9	AF10	AF11	AF12	AF13	AF14	AF15
	SYS	TIM1/2/16/17/LPTIM1/HRTIM1	SAI1/TIM3/4/5/12/HRTIM1	LPUART/TIM8/LPTIM2/3/4/5/HRTIM1/DFSDM1	I2C1/2/3/4/USART1/TIM15/LPTIM2/DFSDM1/CEC	SPI1/2/3/4/5/6/CEC	SPI2/3/SAI1/3/I2C4/UART4/DFSDM1	SPI2/3/6/USART1/2/3/6/UART7/SDMMC1	SPI6/SAI2/4/UART4/5/8/LPUART/SDMMC1/SPDIFRX1	SAI4/FDCAN1/2/TIM13/14/QUADSPI/FMC/SDMMC2/LCD/SPDIFRX1	SAI2/4/TIM8/QUADSPI/SDMMC2/OTG1_HS/OTG2_FS/LCD	I2C4/UART7/SWPMI1/TIM1/8/DFSDM1/SDMMC2/MDIOS/ETH	TIM1/8/FMC/SDMMC1/MDIOS/OTG1_FS/LCD	TIM1/DCMI/LCD/COMP	UART5/LCD	SYS
PD8	-	-	-	DFSDM1_CKIN3	-	-	SAI3_SCK_B	USART3_TX	-	SPDIFRX1_IN2	-	-	FMC_D13/FMC_DA13	-	-	EVENT-OUT
PD9	-	-	-	DFSDM1_DATIN3	-	-	SAI3_SD_B	USART3_RX	-	FDCAN2_RXFD_MODE	-	-	FMC_D14/FMC_DA14	-	-	EVENT-OUT
PD10	-	-	-	DFSDM1_CKOUT	-	-	SAI3_FS_B	USART3_CK	-	FDCAN2_TXFD_MODE	-	-	FMC_D15/FMC_DA15	-	LCD_B3	EVENT-OUT
PD11	-	-	-	LPTIM2_IN2	I2C4_SMBA	-	-	USART3_CTS/USART3_NSS	-	QUADSPI_BK1_IO0	SAI2_SD_A	-	FMC_A16	-	-	EVENT-OUT
PD12	-	LPTIM1_IN1	TIM4_CH1	LPTIM2_IN1	I2C4_SCL	-	-	USART3_RTS/USART3_DE	-	QUADSPI_BK1_IO1	SAI2_FS_A	-	FMC_A17	-	-	EVENT-OUT
PD13	-	LPTIM1_OUT	TIM4_CH2	-	I2C4_SDA	-	-		-	QUADSPI_BK1_IO3	SAI2_SCK_A	-	FMC_A18	-	-	EVENT-OUT
PD14	-	-	TIM4_CH3	-	-	-	SAI3_MCLK_B	-	UART8_CTS	-	-	-	FMC_D0/FMC_DA0	-	-	EVENT-OUT
PD15	-	-	TIM4_CH4	-	-	-	SAI3_MCLK_A	-	UART8_RTS/UART8_DE	-	-	-	FMC_D1/FMC_DA1	-	-	EVENT-OUT

Table 14. Port E alternate functions

Port	AF0 SYS	AF1 TIM1/2/16/17/LPTIM1/HRTIM1	AF2 SAI1/TIM3/4/5/12/HRTIM1	AF3 LPUART/TIM8/LPTIM2/3/4/5/HRTIM1/DFSDM1	AF4 I2C1/2/3/4/USART1/TIM15/LPTIM2/DFSDM1/CEC	AF5 SPI1/2/3/4/5/6/CEC	AF6 SPI2/3/SAI1/3/I2C4/UART4/5/6/CEC	AF7 SPI2/3/6/USART1/2/3/6/UART7/SDMMC1	AF8 SPI6/SAI2/4/UART4/5/8/LPUART/SDMMC1/SPDIFRX1	AF9 SAI4/FDCAN1/2/TIM13/14/QUADSPI/FMC/SDMMC2/LCD/SPDIFRX1	AF10 SAI2/4/TIM8/QUADSPI/SDMMC2/OTG1_HS/OTG2_FS/LCD	AF11 I2C4/UART7/SWPMI1/TIM1/8/DFSDM1/SDMMC2/MDIOS/ETH	AF12 TIM1/8/FMC/SDMMC1/MDIOS/OTG1_FS/LCD	AF13 TIM1/DCMI/LCD/COMP	AF14 UART5/LCD	AF15 SYS
PE0	-	LPTIM1_ETR	TIM4_ETR	HRTIM_SCIN	LPTIM2_ETR	-	-	-	UART8_RX	FDCAN1_RXFD_MODE	SAI2_MCLK_A	-	FMC_NBL0	DCMI_D2	-	EVENT-OUT
PE1	-	LPTIM1_IN2	-	HRTIM_SCOUT	-	-	-	-	UART8_TX	FDCAN1_TXFD_MODE	-	-	FMC_NBL1	DCMI_D3	-	EVENT-OUT
PE2	TRACECLK	-	SAI1_CK1	-	-	SPI4_SCK	SAI1_MCLK_A	-	SAI4_MCLK_A	QUADSPI_BK1_IO2	SAI4_CK1	ETH_MII_TXD3	FMC_A23	-	-	EVENT-OUT
PE3	TRACED0	-	-	-	TIM15_BKIN	-	SAI1_SD_B	-	SAI4_SD_B	-	-	-	FMC_A19	-	-	EVENT-OUT
PE4	TRACED1	-	SAI1_D2	DFSDM1_DATIN3	TIM15_CH1N	SPI4_NSS	SAI1_FS_A	-	SAI4_FS_A	-	SAI4_D2	-	FMC_A20	DCMI_D4	LCD_B0	EVENT-OUT
PE5	TRACED2	-	SAI1_CK2	DFSDM1_CKIN3	TIM15_CH1	SPI4_MISO	SAI1_SCK_A	-	SAI4_SCK_A	-	SAI4_CK2	-	FMC_A21	DCMI_D6	LCD_G0	EVENT-OUT
PE6	TRACED3	TIM1_BKIN2	SAI1_D1	-	TIM15_CH2	SPI4_MOSI	SAI1_SD_A	-	SAI4_SD_A	SAI4_D1	SAI2_MCLK_B	TIM1_BKIN2_COMP12	FMC_A22	DCMI_D7	LCD_G1	EVENT-OUT
PE7	-	TIM1_ETR	-	DFSDM1_DATIN2	-	-	-	UART7_RX	-	-	QUADSPI_BK2_IO0	-	FMC_D4/FMC_DA4	-	-	EVENT-OUT
PE8	-	TIM1_CH1N	-	DFSDM1_CKIN2	-	-	-	UART7_TX	-	-	QUADSPI_BK2_IO1	-	FMC_D5/FMC_DA5	COMP2_OUT	-	EVENT-OUT
PE9	-	TIM1_CH1	-	DFSDM1_CKOUT	-	-	-	UART7_RTS/UART7_DE	-	-	QUADSPI_BK2_IO2	-	FMC_D6/FMC_DA6	-	-	EVENT-OUT
PE10	-	TIM1_CH2N	-	DFSDM1_DATIN4	-	-	-	UART7_CTS	-	-	QUADSPI_BK2_IO3	-	FMC_D7/FMC_DA7	-	-	EVENT-OUT
PE11	-	TIM1_CH2	-	DFSDM1_CKIN4	-	SPI4_NSS	-	-	-	-	SAI2_SD_B	-	FMC_D8/FMC_DA8	-	LCD_G3	EVENT-OUT
PE12	-	TIM1_CH3N	-	DFSDM1_DATIN5	-	SPI4_SCK	-	-	-	-	SAI2_SCK_B	-	FMC_D9/FMC_DA9	COMP1_OUT	LCD_B4	EVENT-OUT
PE13	-	TIM1_CH3	-	DFSDM1_CKIN5	-	SPI4_MISO	-	-	-	-	SAI2_FS_B	-	FMC_D10/FMC_DA10	COMP2_OUT	LCD_DE	EVENT-OUT

Port E

Table 14. Port E alternate functions (continued)

Port		AF0	AF1	AF2	AF3	AF4	AF5	AF6	AF7	AF8	AF9	AF10	AF11	AF12	AF13	AF14	AF15
		SYS	TIM1/2/16/17/LPTIM1/HRTIM1	SAI1/TIM3/4/5/12/HRTIM1	LPUART/TIM8/LPTIM2/3/4/5/HRTIM1/DFSDM1	I2C1/2/3/4/USART1/TIM15/LPTIM2/DFSDM1/CEC	SPI1/2/3/4/5/6/CEC	SPI2/3/SAI1/3/I2C4/UART4/DFSDM1	SPI2/3/6/USART1/2/3/6/UART7/SDMMC1	SPI6/SAI2/4/UART4/5/8/LPUART/SDMMC1/SPDIFRX1	SAI4/FDCAN1/2/TIM13/14/QUADSPI/FMC/SDMMC2/LCD/SPDIFRX1	SAI2/4/TIM8/QUADSPI/SDMMC2/OTG1_HS/OTG2_FS/LCD	I2C4/UART7/SWPMI1/TIM1/8/DFSDM1/SDMMC2/MDIOS/ETH	TIM1/8/FMC/SDMMC1/MDIOS/OTG1_FS/LCD	TIM1/DCMI/LCD/COMP	UART5/LCD	SYS
Port E	PE14	-	TIM1_CH4	-	-	-	SPI4_MOSI	-	-	-	-	SAI2_MCLK_B	-	FMC_D11/FMC_DA11	-	LCD_CLK	EVENT-OUT
	PE15	-	TIM1_BKIN	-	-	-	-	-	-	-	-		-	FMC_D12/FMC_DA12	TIM1_BKIN_COMP12/COMP_TIM1_BKIN	LCD_R7	EVENT-OUT

Table 15. Port F alternate functions

Port	AF0 SYS	AF1 TIM1/2/16/17/LPTIM1/HRTIM1	AF2 SAI1/TIM3/4/5/12/HRTIM1	AF3 LPUART/TIM8/LPTIM2/3/4/5/HRTIM1/DFSDM1	AF4 I2C1/2/3/4/USART1/TIM15/LPTIM2/DFSDM1/CEC	AF5 SPI1/2/3/4/5/6/CEC	AF6 SPI2/3/SAI1/3/I2C4/UART4/DFSDM1	AF7 SPI2/3/6/USART1/2/3/6/UART7/SDMMC1	AF8 SPI6/SAI2/4/UART4/5/8/LPUART/SDMMC1/SPDIFRX1	AF9 SAI4/FDCAN1/2/TIM13/14/QUADSPI/FMC/SDMMC2/LCD/SPDIFRX1	AF10 SAI2/4/TIM8/QUADSPI/SDMMC2/OTG1_HS/OTG2_FS/LCD	AF11 I2C4/UART7/SWPMI1/TIM1/8/DFSDM1/SDMMC2/MDIOS/ETH	AF12 TIM1/8/FMC/SDMMC1/MDIOS/OTG1_FS/LCD	AF13 TIM1/DCMI/LCD/COMP	AF14 UART5/LCD	AF15 SYS
PF0	-	-	-	-	I2C2_SDA	-	-	-	-	-	-	-	FMC_A0	-	-	EVENT-OUT
PF1	-	-	-	-	I2C2_SCL	-	-	-	-	-	-	-	FMC_A1	-	-	EVENT-OUT
PF2	-	-	-	-	I2C2_SMBA	-	-	-	-	-	-	-	FMC_A2	-	-	EVENT-OUT
PF3	-	-	-	-	-	-	-	-	-	-	-	-	FMC_A3	-	-	EVENT-OUT
PF4	-	-	-	-	-	-	-	-	-	-	-	-	FMC_A4	-	-	EVENT-OUT
PF5	-	-	-	-	-	-	-	-	-	-	-	-	FMC_A5	-	-	EVENT-OUT
PF6	-	TIM16_CH1	-	-	-	SPI5_NSS	SAI1_SD_B	UART7_RX	SAI4_SD_B	QUADSPI_BK1_IO3	-	-	-	-	-	EVENT-OUT
PF7	-	TIM17_CH1	-	-	-	SPI5_SCK	SAI1_MCLK_B	UART7_TX	SAI4_MCLK_B	QUADSPI_BK1_IO2	-	-	-	-	-	EVENT-OUT
PF8	-	TIM16_CH1N	-	-	-	SPI5_MISO	SAI1_SCK_B	UART7_RTS/UART7_DE	SAI4_SCK_B	TIM13_CH1	QUADSPI_BK1_IO0	-	-	-	-	EVENT-OUT
PF9	-	TIM17_CH1N	-	-	-	SPI5_MOSI	SAI1_FS_B	UART7_CTS	SAI4_FS_B	TIM14_CH1	QUADSPI_BK1_IO1	-	-	-	-	EVENT-OUT
PF10	-	TIM16_BKIN	SAI1_D3	-	-	-	-	-	-	QUADSPI_CLK	SAI4_D3	-	-	DCMI_D11	LCD_DE	EVENT-OUT
PF11	-	-	-	-	-	SPI5_MOSI	-	-	-	-	SAI2_SD_B	-	FMC_SDNRAS	DCMI_D12	-	EVENT-OUT
PF12	-	-	-	-	-	-	-	-	-	-	-	-	FMC_A6	-	-	EVENT-OUT
PF13	-	-	-	DFSDM1_DATIN6	I2C4_SMBA	-	-	-	-	-	-	-	FMC_A7	-	-	EVENT-OUT
PF14	-	-	-	DFSDM1_CKIN6	I2C4_SCL	-	-	-	-	-	-	-	FMC_A8	-	-	EVENT-OUT
PF15	-	-	-	-	I2C4_SDA	-	-	-	-	-	-	-	FMC_A9	-	-	EVENT-OUT

Port F

Pin descriptions

STM32H742xI/G STM32H743xI/G

Table 16. Port G alternate functions

Port		AF0 SYS	AF1 TIM1/2/16/17/LPTIM1/HRTIM1	AF2 SAI1/TIM3/4/5/12/HRTIM1	AF3 LPUART/TIM8/LPTIM2/3/4/5/HRTIM1/DFSDM1	AF4 I2C1/2/3/4/USART1/TIM15/LPTIM2/DFSDM1/CEC	AF5 SPI1/2/3/4/5/6/CEC	AF6 SPI2/3/SAI1/3/I2C4/UART4/DFSDM1	AF7 SPI2/3/6/USART1/2/3/6/UART7/SDMMC1	AF8 SPI6/SAI2/4/UART4/5/8/LPUART/SDMMC1/SPDIFRX1	AF9 SAI4/FDCAN1/2/TIM13/14/QUADSPI/FMC/SDMMC2/LCD/SPDIFRX1	AF10 SAI2/4/TIM8/QUADSPI/SDMMC2/OTG1_HS/OTG2_FS/LCD	AF11 I2C4/UART7/SWPMI1/TIM1/8/DFSDM1/SDMMC2/MDIOS/ETH	AF12 TIM1/8/FMC/SDMMC1/MDIOS/OTG1_FS/LCD	AF13 TIM1/DCMI/LCD/COMP	AF14 UART5/LCD	AF15 SYS
Port G	PG0	-	-	-	-	-	-	-	-	-	-	-	-	FMC_A10	-	-	EVENT-OUT
	PG1	-	-	-	-	-	-	-	-	-	-	-	-	FMC_A11	-	-	EVENT-OUT
	PG2	-	-	-	TIM8_BKIN	-	-	-	-	-	-	-	TIM8_BKIN_COMP12	FMC_A12	-	-	EVENT-OUT
	PG3	-	-	-	TIM8_BKIN2	-	-	-	-	-	-	-	TIM8_BKIN2_COMP12	FMC_A13	-	-	EVENT-OUT
	PG4	-	TIM1_BKIN2	-	-	-	-	-	-	-	-	-	TIM1_BKIN2_COMP12	FMC_A14/FMC_BA0	-	-	EVENT-OUT
	PG5	-	TIM1_ETR	-	-	-	-	-	-	-	-	-	-	FMC_A15/FMC_BA1	-	-	EVENT-OUT
	PG6	-	TIM17_BKIN	HRTIM_CHE1	-	-	-	-	-	-	-	QUADSPI_BK1_NCS	-	FMC_NE3	DCMI_D12	LCD_R7	EVENT-OUT
	PG7	-	-	HRTIM_CHE2	-	-	-	SAI1_MCLK_A	USART6_CK	-	-	-	-	FMC_INT	DCMI_D13	LCD_CLK	EVENT-OUT
	PG8	-	-	-	TIM8_ETR	-	SPI6_NSS	-	USART6_RTS/USART6_DE	SPDIFRX1_IN3	-	-	ETH_PPS_OUT	FMC_SDCLK	-	LCD_G7	EVENT-OUT
	PG9	-	-	-	-	-	SPI1_MISO/I2S1_SDI	-	USART6_RX	SPDIFRX1_IN4	QUADSPI_BK2_IO2	SAI2_FS_B	-	FMC_NE2/FMC_NCE	DCMI_VSYNC	-	EVENT-OUT
	PG10	-	-	HRTIM_FLT5	-	-	SPI1_NSS/I2S1_WS	-	-	-	LCD_G3	SAI2_SD_B	-	FMC_NE3	DCMI_D2	LCD_B2	EVENT-OUT
	PG11	-	LPTIM1_IN2	HRTIM_EEV4	-	-	SPI1_SCK/I2S1_CK	-	-	SPDIFRX1_IN1	-	SDMMC2_D2	ETH_MII_TX_EN/ETH_RMII_TX_EN	-	DCMI_D3	LCD_B3	EVENT-OUT
	PG12	-	LPTIM1_IN1	HRTIM_EEV5	-	-	SPI6_MISO	-	USART6_RTS/USART6_DE	SPDIFRX1_IN2	LCD_B4	-	ETH_MII_TXD1/ETH_RMII_TXD1	FMC_NE4	-	LCD_B1	EVENT-OUT
	PG13	TRACED0	LPTIM1_OUT	HRTIM_EEV10	-	-	SPI6_SCK	-	USART6_CTS/USART6_NSS	-	-	-	ETH_MII_TXD0/ETH_RMII_TXD0	FMC_A24	-	LCD_R0	EVENT-OUT

Table 16. Port G alternate functions (continued)

Port		AF0 SYS	AF1 TIM1/2/16/17/LPTIM1/HRTIM1	AF2 SAI1/TIM3/4/5/12/HRTIM1	AF3 LPUART/TIM8/LPTIM2/3/4/5/HRTIM1/DFSDM1	AF4 I2C1/2/3/4/USART1/TIM15/LPTIM2/DFSDM1/CEC	AF5 SPI1/2/3/4/5/6/CEC	AF6 SPI2/3/SAI1/3/I2C4/UART4/DFSDM1	AF7 SPI2/3/6/USART1/2/3/6/UART7/SDMMC1	AF8 SPI6/SAI2/4/UART4/5/8/LPUART/SDMMC1/SPDIFRX1	AF9 SAI4/FDCAN1/2/TIM13/14/QUADSPI/FMC/SDMMC2/LCD/SPDIFRX1	AF10 SAI2/4/TIM8/QUADSPI/SDMMC2/OTG1_HS/OTG2_FS/LCD	AF11 I2C4/UART7/SWPMI1/TIM1/8/DFSDM1/SDMMC2/MDIOS/ETH	AF12 TIM1/8/FMC/SDMMC1/MDIOS/OTG1_FS/LCD	AF13 TIM1/DCMI/LCD/COMP	AF14 UART5/LCD	AF15 SYS
Port G	PG14	TRACED1	LPTIM1_ETR	-	-	-	SPI6_MOSI	-	USART6_TX		QUADSPI_BK2_IO3	-	ETH_MII_TXD1/ETH_RMII_TXD1	FMC_A25	-	LCD_B0	EVENT-OUT
	PG15	-	-	-	-	-	-	-	USART6_CTS/USART6_NSS	-	-	-	-	FMC_SDNCAS	DCMI_D13	-	EVENT-OUT

Table 17. Port H alternate functions

Port	AF0 SYS	AF1 TIM1/2/16/17/LPTIM1/HRTIM1	AF2 SAI1/TIM3/4/5/12/HRTIM1	AF3 LPUART/TIM8/LPTIM2/3/4/5/HRTIM1/DFSDM1	AF4 I2C1/2/3/4/USART1/TIM15/LPTIM2/DFSDM1/CEC	AF5 SPI1/2/3/4/5/6/CEC	AF6 SPI2/3/SAI1/3/I2C4/UART4/DFSDM1	AF7 SPI2/3/6/USART1/2/3/6/UART7/SDMMC1	AF8 SPI6/SAI2/4/UART4/5/8/LPUART/SDMMC1/SPDIFRX1	AF9 SAI4/FDCAN1/2/TIM13/14/QUADSPI/FMC/SDMMC2/LCD/SPDIFRX1	AF10 SAI2/4/TIM8/QUADSPI/SDMMC2/OTG1_HS/OTG2_FS/LCD	AF11 I2C4/UART7/SWPMI1/TIM1/8/DFSDM1/SDMMC2/MDIOS/ETH	AF12 TIM1/8/FMC/SDMMC1/MDIOS/OTG1_FS/LCD	AF13 TIM1/DCMI/LCD/COMP	AF14 UART5/LCD	AF15 SYS
PH0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EVENT-OUT
PH1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EVENT-OUT
PH2	-	LPTIM1_IN2	-	-	-	-	-	-	-	QUADSPI_BK2_IO0	SAI2_SCK_B	ETH_MII_CRS	FMC_SDCKE0	-	LCD_R0	EVENT-OUT
PH3	-	-	-	-	-	-	-	-	-	QUADSPI_BK2_IO1	SAI2_MCLK_B	ETH_MII_COL	FMC_SDNE0	-	LCD_R1	EVENT-OUT
PH4	-	-	-	-	I2C2_SCL	-	-	-	-	LCD_G5	OTG_HS_ULPI_NXT	-	-	-	LCD_G4	EVENT-OUT
PH5	-	-	-	-	I2C2_SDA	SPI5_NSS	-	-	-	-	-	-	FMC_SDNWE	-	-	EVENT-OUT
PH6	-	-	TIM12_CH1	-	I2C2_SMBA	SPI5_SCK	-	-	-	-	-	ETH_MII_RXD2	FMC_SDNE1	DCMI_D8	-	EVENT-OUT
PH7	-	-	-	-	I2C3_SCL	SPI5_MISO	-	-	-	-	-	ETH_MII_RXD3	FMC_SDCKE1	DCMI_D9	-	EVENT-OUT
PH8	-	-	TIM5_ETR	-	I2C3_SDA	-	-	-	-	-	-	-	FMC_D16	DCMI_HSYNC	LCD_R2	EVENT-OUT
PH9	-	-	TIM12_CH2	-	I2C3_SMBA	-	-	-	-	-	-	-	FMC_D17	DCMI_D0	LCD_R3	EVENT-OUT
PH10	-	-	TIM5_CH1	-	I2C4_SMBA	-	-	-	-	-	-	-	FMC_D18	DCMI_D1	LCD_R4	EVENT-OUT
PH11	-	-	TIM5_CH2	-	I2C4_SCL	-	-	-	-	-	-	-	FMC_D19	DCMI_D2	LCD_R5	EVENT-OUT
PH12	-	-	TIM5_CH3	-	I2C4_SDA	-	-	-	-	-	-	-	FMC_D20	DCMI_D3	LCD_R6	EVENT-OUT
PH13	-	-	-	TIM8_CH1N	-	-	-	-	UART4_TX	FDCAN1_TX	-	-	FMC_D21	-	LCD_G2	EVENT-OUT
PH14	-	-	-	TIM8_CH2N	-	-	-	-	UART4_RX	FDCAN1_RX	-	-	FMC_D22	DCMI_D4	LCD_G3	EVENT-OUT
PH15	-	-	-	TIM8_CH3N	-	-	-	-	-	FDCAN1_TXFD_MODE	-	-	FMC_D23	DCMI_D11	LCD_G4	EVENT-OUT

Port H

Table 18. Port I alternate functions

	Port	AF0 SYS	AF1 TIM1/2/16/17/LPTIM1/HRTIM1	AF2 SAI1/TIM3/4/5/12/HRTIM1	AF3 LPUART/TIM8/LPTIM2/3/4/5/HRTIM1/DFSDM1	AF4 I2C1/2/3/4/USART1/TIM15/LPTIM2/DFSDM1/CEC	AF5 SPI1/2/3/4/5/6/CEC	AF6 SPI2/3/SAI1/3/I2C4/UART4/DFSDM1	AF7 SPI2/3/6/USART1/2/3/6/UART7/SDMMC1	AF8 SPI6/SAI2/4/UART4/5/8/LPUART/SDMMC1/SPDIFRX1	AF9 SAI4/FDCAN1/2/TIM13/14/QUADSPI/FMC/SDMMC2/LCD/SPDIFRX1	AF10 SAI2/4/TIM8/QUADSPI/SDMMC2/OTG1_HS/OTG2_FS/LCD	AF11 I2C4/UART7/SWPMI1/TIM1/8/DFSDM1/SDMMC2/MDIOS/ETH	AF12 TIM1/8/FMC/SDMMC1/MDIOS/OTG1_FS/LCD	AF13 TIM1/DCMI/LCD/COMP	AF14 UART5/LCD	AF15 SYS
Port I	PI0	-	-	TIM5_CH4	-	-	SPI2_NSS/I2S2_WS	-	-	-	FDCAN1_RXFD_MODE	-	-	FMC_D24	DCMI_D13	LCD_G5	EVENT-OUT
	PI1	-	-	-	TIM8_BKIN2	-	SPI2_SCK/I2S2_CK	-	-	-	-	-	TIM8_BKIN2_COMP12	FMC_D25	DCMI_D8	LCD_G6	EVENT-OUT
	PI2	-	-	-	TIM8_CH4	-	SPI2_MISO/I2S2_SDI	-	-	-	-	-	-	FMC_D26	DCMI_D9	LCD_G7	EVENT-OUT
	PI3	-	-	-	TIM8_ETR	-	SPI2_MOSI/I2S2_SDO	-	-	-	-	-	-	FMC_D27	DCMI_D10	-	EVENT-OUT
	PI4	-	-	-	TIM8_BKIN	-	-	-	-	-	-	SAI2_MCLK_A	TIM8_BKIN_COMP12	FMC_NBL2	DCMI_D5	LCD_B4	EVENT-OUT
	PI5	-	-	-	TIM8_CH1	-	-	-	-	-	-	SAI2_SCK_A	-	FMC_NBL3	DCMI_VSYNC	LCD_B5	EVENT-OUT
	PI6	-	-	-	TIM8_CH2	-	-	-	-	-	-	SAI2_SD_A	-	FMC_D28	DCMI_D6	LCD_B6	EVENT-OUT
	PI7	-	-	-	TIM8_CH3	-	-	-	-	-	-	SAI2_FS_A	-	FMC_D29	DCMI_D7	LCD_B7	EVENT-OUT
	PI8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EVENT-OUT
	PI9	-	-	-	-	-	-	-	-	UART4_RX	FDCAN1_RX	-	-	FMC_D30	-	LCD_VSYNC	EVENT-OUT
	PI10	-	-	-	-	-	-	-	-	-	FDCAN1_RXFD_MODE	-	ETH_MII_RX_ER	FMC_D31	-	LCD_HSYNC	EVENT-OUT
	PI11	-	-	-	-	-	-	-	-	-	LCD_G6	OTG_HS_ULPI_DIR	-	-	-	-	EVENT-OUT
	PI12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_HSYNC	EVENT-OUT
	PI13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_VSYNC	EVENT-OUT
	PI14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_CLK	EVENT-OUT
	PI15	-	-	-	-	-	-	-	-	-	LCD_G2	-	-	-	-	LCD_R0	EVENT-OUT

Pin descriptions

Table 19. Port J alternate functions

Port	AF0 SYS	AF1 TIM1/2/16/17/LPTIM1/HRTIM1	AF2 SAI1/TIM3/4/5/12/HRTIM1	AF3 LPUART/TIM8/LPTIM2/3/4/5/HRTIM1/DFSDM1	AF4 I2C1/2/3/4/USART1/TIM15/LPTIM2/DFSDM1/CEC	AF5 SPI1/2/3/4/5/6/CEC	AF6 SPI2/3/SAI1/3/I2C4/UART4/DFSDM1	AF7 SPI2/3/6/USART1/2/3/6/UART7/SDMMC1	AF8 SPI6/SAI2/4/UART4/5/8/LPUART/SDMMC1/SPDIFRX1	AF9 SAI4/FDCAN1/2/TIM13/14/QUADSPI/FMC/SDMMC2/LCD/SPDIFRX1	AF10 SAI2/4/TIM8/QUADSPI/SDMMC2/OTG1_HS/OTG2_FS/LCD	AF11 I2C4/UART7/SWPMI1/TIM1/8/DFSDM1/SDMMC2/MDIOS/ETH	AF12 TIM1/8/FMC/SDMMC1/MDIOS/OTG1_FS/LCD	AF13 TIM1/DCMI/LCD/COMP	AF14 UART5/LCD	AF15 SYS
PJ0	-	-	-	-	-	-	-	-	-	LCD_R7	-	-	-	-	LCD_R1	EVENT-OUT
PJ1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_R2	EVENT-OUT
PJ2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_R3	EVENT-OUT
PJ3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_R4	EVENT-OUT
PJ4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_R5	EVENT-OUT
PJ5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_R6	EVENT-OUT
PJ6	-	-	-	TIM8_CH2	-	-	-	-	-	-	-	-	-	-	LCD_R7	EVENT-OUT
PJ7	TRGIN	-	-	TIM8_CH2N	-	-	-	-	-	-	-	-	-	-	LCD_G0	EVENT-OUT
PJ8	-	TIM1_CH3N	-	TIM8_CH1	-	-	-	-	UART8_TX	-	-	-	-	-	LCD_G1	EVENT-OUT
PJ9	-	TIM1_CH3	-	TIM8_CH1N	-	-	-	-	UART8_RX	-	-	-	-	-	LCD_G2	EVENT-OUT
PJ10	-	TIM1_CH2N	-	TIM8_CH2	-	SPI5_MOSI	-	-	-	-	-	-	-	-	LCD_G3	EVENT-OUT
PJ11	-	TIM1_CH2	-	TIM8_CH2N	-	SPI5_MISO	-	-	-	-	-	-	-	-	LCD_G4	EVENT-OUT
PJ12	TRGOUT	-	-	-	-	-	-	-	-	LCD_G3	-	-	-	-	LCD_B0	EVENT-OUT
PJ13	-	-	-	-	-	-	-	-	-	LCD_B4	-	-	-	-	LCD_B1	EVENT-OUT
PJ14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_B2	EVENT-OUT
PJ15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_B3	EVENT-OUT

Pin descriptions

Table 20. Port K alternate functions

Port		AF0	AF1	AF2	AF3	AF4	AF5	AF6	AF7	AF8	AF9	AF10	AF11	AF12	AF13	AF14	AF15
		SYS	TIM1/2/16/17/LPTIM1/HRTIM1	SAI1/TIM3/4/5/12/HRTIM1	LPUART/TIM8/LPTIM2/3/4/5/HRTIM1/DFSDM1	I2C1/2/3/4/USART1/TIM15/LPTIM2/DFSDM1/CEC	SPI1/2/3/4/5/6/CEC	SPI2/3/SAI1/3/I2C4/UART4/DFSDM1	SPI2/3/6/USART1/2/3/6/UART7/SDMMC1	SPI6/SAI2/4/UART4/5/8/LPUART/SDMMC1/SPDIFRX1	SAI4/FDCAN1/2/TIM13/14/QUADSPI/FMC/SDMMC2/LCD/SPDIFRX1	SAI2/4/TIM8/QUADSPI/SDMMC2/OTG1_HS/OTG2_FS/LCD	I2C4/UART7/SWPMI1/TIM1/8/DFSDM1/SDMMC2/MDIOS/ETH	TIM1/8/FMC/SDMMC1/MDIOS/OTG1_FS/LCD	TIM1/DCMI/LCD/COMP	UART5/LCD	SYS
Port K	PK0	-	TIM1_CH1N	-	TIM8_CH3	-	SPI5_SCK	-	-	-	-	-	-	-	-	LCD_G5	EVENT-OUT
	PK1	-	TIM1_CH1	-	TIM8_CH3N	-	SPI5_NSS	-	-	-	-	-	-	-	-	LCD_G6	EVENT-OUT
	PK2	-	TIM1_BKIN	-	TIM8_BKIN	-	-	-	-	-	-	TIM8_BKIN_COMP12	TIM1_BKIN_COMP12	-	-	LCD_G7	EVENT-OUT
	PK3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_B4	EVENT-OUT
	PK4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_B5	EVENT-OUT
	PK5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_B6	EVENT-OUT
	PK6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_B7	EVENT-OUT
	PK7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_DE	EVENT-OUT