

Table 12. STM32F427xx and STM32F429xx alternate function mapping

Port		AF0	AF1	AF2	AF3	AF4	AF5	AF6	AF7	AF8	AF9	AF10	AF11	AF12	AF13	AF14	AF15
		SYS	TIM1/2	TIM3/4/5	TIM8/9/ 10/11	I2C1/ 2/3	SPI1/2/ 3/4/5/6	SPI2/3/ SAI1	SPI3/ USART1/ 2/3	USART6/ UART4/5/7 /8	CAN1/2/ TIM12/13/14 /LCD	OTG_HS /OTG1_ FS	ETH	FMC/SDIO /OTG2_FS	DCMI	LCD	SYS
Port A	PA0	-	TIM2_ CH1/TIM2_ ETR	TIM5_ CH1	TIM8_ ETR	-	-	-	USART2_ CTS	UART4_TX	-	-	ETH_MII_ CRS	-	-	-	EVEN TOUT
	PA1	-	TIM2_ CH2	TIM5_ CH2	-	-	-	-	USART2_ RTS	UART4_RX	-	-	ETH_MII_ RX_CLK/E TH_RMII_ REF_CLK	-	-	-	EVEN TOUT
	PA2	-	TIM2_ CH3	TIM5_ CH3	TIM9_ CH1	-	-	-	USART2_ TX	-	-	-	ETH_ MDIO	-	-	-	EVEN TOUT
	PA3	-	TIM2_ CH4	TIM5_ CH4	TIM9_ CH2	-	-	-	USART2_ RX	-	-	OTG_HS_ ULPI_D0	ETH_MII_ COL	-	-	LCD_B5	EVEN TOUT
	PA4	-	-	-	-	-	SPI1_ NSS	SPI3_ NSS/ I2S3_WS	USART2_ CK	-	-	-	-	OTG_HS_ SOF	DCMI_ HSYNC	LCD_ VSYNC	EVEN TOUT
	PA5	-	TIM2_ CH1/TIM2_ ETR	-	TIM8_ CH1N	-	SPI1_ SCK	-	-	-	-	OTG_HS_ ULPI_CK	-	-	-	-	EVEN TOUT
	PA6	-	TIM1_ BKIN	TIM3_ CH1	TIM8_ BKIN	-	SPI1_ MISO	-	-	-	TIM13_CH1	-	-	-	DCMI_ PIXCLK	LCD_G2	EVEN TOUT
	PA7	-	TIM1_ CH1N	TIM3_ CH2	TIM8_ CH1N	-	SPI1_ MOSI	-	-	-	TIM14_CH1	-	ETH_MII_ RX_DV/ ETH_RMII_ CRS_DV	-	-	-	EVEN TOUT
	PA8	MCO1	TIM1_ CH1	-	-	I2C3_ SCL	-	-	USART1_ CK	-	-	OTG_FS_ SOF	-	-	-	LCD_R6	EVEN TOUT
	PA9	-	TIM1_ CH2	-	-	I2C3_ SMBA	-	-	USART1_ TX	-	-	-	-	-	DCMI_ D0	-	EVEN TOUT
	PA10	-	TIM1_ CH3	-	-	-	-	-	USART1_ RX	-	-	OTG_FS_ ID	-	-	DCMI_ D1	-	EVEN TOUT
	PA11	-	TIM1_ CH4	-	-	-	-	-	USART1_ CTS	-	CAN1_RX	OTG_FS_ DM	-	-	-	LCD_R4	EVEN TOUT
	PA12	-	TIM1_ ETR	-	-	-	-	-	USART1_ RTS	-	CAN1_TX	OTG_FS_ DP	-	-	-	LCD_R5	EVEN TOUT



Table 12. STM32F427xx and STM32F429xx alternate function mapping (continued)

Port		AF0	AF1	AF2	AF3	AF4	AF5	AF6	AF7	AF8	AF9	AF10	AF11	AF12	AF13	AF14	AF15
		SYS	TIM1/2	TIM3/4/5	TIM8/9/ 10/11	I2C1/ 2/3	SPI1/2/ 3/4/5/6	SPI2/3/ SAI1	SPI3/ USART1/ 2/3	USART6/ UART4/5/7 /8	CAN1/2/ TIM12/13/14 /LCD	OTG2_HS /OTG1_ FS	ETH	FMC/SDIO /OTG2_FS	DCMI	LCD	SYS
Port A	PA13	JTMS- SWDI O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EVEN TOUT
	PA14	JTCK- SWCL K	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EVEN TOUT
	PA15	JTDI	TIM2_ CH1/TIM2 _ETR	-	-	-	SPI1_ NSS	SPI3_ NSS/ I2S3_WS	-	-	-	-	-	-	-	-	EVEN TOUT
Port B	PB0	-	TIM1_ CH2N	TIM3_ CH3	TIM8_ CH2N	-	-	-	-	-	LCD_R3	OTG_HS_ ULPI_D1	ETH_MII_ RXD2	-	-	-	EVEN TOUT
	PB1	-	TIM1_ CH3N	TIM3_ CH4	TIM8_ CH3N	-	-	-	-	-	LCD_R6	OTG_HS_ ULPI_D2	ETH_MII_ RXD3	-	-	-	EVEN TOUT
	PB2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EVEN TOUT
	PB3	JTDO/ TRAC ESWO	TIM2_ CH2	-	-	-	SPI1_ SCK	SPI3_ SCK/ I2S3_CK	-	-	-	-	-	-	-	-	EVEN TOUT
	PB4	NJTR ST	-	TIM3_ CH1	-	-	SPI1_ MISO	SPI3_ MISO	I2S3ext_ SD	-	-	-	-	-	-	-	EVEN TOUT
	PB5	-	-	TIM3_ CH2	-	I2C1_ SMBA	SPI1_ MOSI	SPI3_ MOSI/ I2S3_SD	-	-	CAN2_RX	OTG_HS_ ULPI_D7	ETH_PPS_ OUT	FMC_ SDCKE1	DCMI_ D10	-	EVEN TOUT
	PB6	-	-	TIM4_ CH1	-	I2C1_ SCL	-	-	USART1_ TX	-	CAN2_TX	-	-	FMC_ SDNE1	DCMI_ D5	-	EVEN TOUT
	PB7	-	-	TIM4_ CH2	-	I2C1_ SDA	-	-	USART1_ RX	-	-	-	-	FMC_NL	DCMI_ VSYNC	-	EVEN TOUT
	PB8	-	-	TIM4_ CH3	TIM10_ CH1	I2C1_ SCL	-	-	-	-	CAN1_RX	-	ETH_MII_ TXD3	SDIO_D4	DCMI_ D6	LCD_B6	EVEN TOUT
	PB9	-	-	TIM4_ CH4	TIM11_ CH1	I2C1_ SDA	SPI2_ NSS/I2 S2_WS	-	-	-	CAN1_TX	-	-	SDIO_D5	DCMI_ D7	LCD_B7	EVEN TOUT
	PB10	-	TIM2_ CH3	-	-	I2C2_ SCL	SPI2_ SCK/I2 S2_CK	-	USART3_ TX	-	-	OTG_HS_ ULPI_D3	ETH_MII_ RX_ER	-	-	LCD_G4	EVEN TOUT

Table 12. STM32F427xx and STM32F429xx alternate function mapping (continued)

Port		AF0	AF1	AF2	AF3	AF4	AF5	AF6	AF7	AF8	AF9	AF10	AF11	AF12	AF13	AF14	AF15
		SYS	TIM1/2	TIM3/4/5	TIM8/9/ 10/11	I2C1/ 2/3	SPI1/2/ 3/4/5/6	SPI2/3/ SAI1	SPI3/ USART1/ 2/3	USART6/ UART4/5/7 /8	CAN1/2/ TIM12/13/14 /LCD	OTG_HS_ /OTG1_ FS	ETH	FMC/SDIO /OTG2_FS	DCMI	LCD	SYS
Port B	PB11	-	TIM2_ CH4	-	-	I2C2_ SDA	-	-	USART3_ RX	-	-	OTG_HS_ ULPI_D4	ETH_MII_ TX_EN/ ETH_RMII_ TX_EN	-	-	LCD_G5	EVEN TOUT
	PB12	-	TIM1_ BKIN	-	-	I2C2_ SMBA	SPI2_ NSS/I2 S2_WS	-	USART3_ CK	-	CAN2_RX	OTG_HS_ ULPI_D5	ETH_MII_ TXD0/ETH_ RMII_ TXD0	OTG_HS_ ID	-	-	EVEN TOUT
	PB13	-	TIM1_ CH1N	-	-	-	SPI2_ SCK/I2 S2_CK	-	USART3_ CTS	-	CAN2_TX	OTG_HS_ ULPI_D6	ETH_MII_ TXD1/ETH_ RMII_TX D1	-	-	-	EVEN TOUT
	PB14	-	TIM1_ CH2N	-	TIM8_ CH2N	-	SPI2_ MISO	I2S2ext_ SD	USART3_ RTS	-	TIM12_CH1	-	-	OTG_HS_ DM	-	-	EVEN TOUT
	PB15	RTC_ REFIN	TIM1_ CH3N	-	TIM8_ CH3N	-	SPI2_ MOSI/I2 S2_SD	-	-	-	TIM12_CH2	-	-	OTG_HS_ DP	-	-	EVEN TOUT
Port C	PC0	-	-	-	-	-	-	-	-	-	-	OTG_HS_ ULPI_STP	-	FMC_SDN WE	-	-	EVEN TOUT
	PC1	-	-	-	-	-	-	-	-	-	-	-	ETH_MDC	-	-	-	EVEN TOUT
	PC2	-	-	-	-	-	SPI2_ MISO	I2S2ext_ SD	-	-	-	OTG_HS_ ULPI_DIR	ETH_MII_ TXD2	FMC_ SDNE0	-	-	EVEN TOUT
	PC3	-	-	-	-	-	SPI2_ MOSI/I2 S2_SD	-	-	-	-	OTG_HS_ ULPI_NXT	ETH_MII_ TX_CLK	FMC_ SDCKE0	-	-	EVEN TOUT
	PC4	-	-	-	-	-	-	-	-	-	-	-	ETH_MII_ RXD0/ETH_ RMII_ RXD0	-	-	-	EVEN TOUT
	PC5	-	-	-	-	-	-	-	-	-	-	-	ETH_MII_ RXD1/ETH_ RMII_ RXD1	-	-	-	EVEN TOUT
	PC6	-	-	TIM3_ CH1	TIM8_ CH1	-	I2S2_ MCK	-	-	USART6_ TX	-	-	-	SDIO_D6	DCMI_ D0	LCD_ HSYNC	EVEN TOUT
	PC7	-	-	TIM3_ CH2	TIM8_ CH2	-	-	I2S3_ MCK	-	USART6_ RX	-	-	-	SDIO_D7	DCMI_ D1	LCD_G6	EVEN TOUT



Table 12. STM32F427xx and STM32F429xx alternate function mapping (continued)

Port		AF0	AF1	AF2	AF3	AF4	AF5	AF6	AF7	AF8	AF9	AF10	AF11	AF12	AF13	AF14	AF15
		SYS	TIM1/2	TIM3/4/5	TIM8/9/ 10/11	I2C1/ 2/3	SPI1/2/ 3/4/5/6	SPI2/3/ SAI1	SPI3/ USART1/ 2/3	USART6/ UART4/5/7 /8	CAN1/2/ TIM12/13/14 /LCD	OTG2_HS /OTG1_ FS	ETH	FMC/SDIO /OTG2_FS	DCMI	LCD	SYS
Port C	PC8	-	-	TIM3_CH3	TIM8_CH3	-	-	-	-	USART6_CK	-	-	-	SDIO_D0	DCMI_D2	-	EVEN TOUT
	PC9	MCO2	-	TIM3_CH4	TIM8_CH4	I2C3_SDA	I2S_CKIN	-	-	-	-	-	-	SDIO_D1	DCMI_D3	-	EVEN TOUT
	PC10	-	-	-	-	-	-	SPI3_SCK/I2S3_CK	USART3_TX	UART4_TX	-	-	-	SDIO_D2	DCMI_D8	LCD_R2	EVEN TOUT
	PC11	-	-	-	-	-	I2S3ext_SD	SPI3_MISO	USART3_RX	UART4_RX	-	-	-	SDIO_D3	DCMI_D4	-	EVEN TOUT
	PC12	-	-	-	-	-	-	SPI3_MOSI/I2S3_SD	USART3_CK	UART5_TX	-	-	-	SDIO_CK	DCMI_D9	-	EVEN TOUT
	PC13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EVEN TOUT
	PC14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EVEN TOUT
	PC15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EVEN TOUT
Port D	PD0	-	-	-	-	-	-	-	-	-	CAN1_RX	-	-	FMC_D2	-	-	EVEN TOUT
	PD1	-	-	-	-	-	-	-	-	-	CAN1_TX	-	-	FMC_D3	-	-	EVEN TOUT
	PD2	-	-	TIM3_ETR	-	-	-	-	-	UART5_RX	-	-	-	SDIO_CMD	DCMI_D11	-	EVEN TOUT
	PD3	-	-	-	-	-	SPI2_SCK/I2S2_CK	-	USART2_CTS	-	-	-	-	FMC_CLK	DCMI_D5	LCD_G7	EVEN TOUT
	PD4	-	-	-	-	-	-	-	USART2_RTS	-	-	-	-	FMC_NOE	-	-	EVEN TOUT
	PD5	-	-	-	-	-	-	-	USART2_TX	-	-	-	-	FMC_NWE	-	-	EVEN TOUT
	PD6	-	-	-	-	-	SPI3_MOSI/I2S3_SD	SAI1_SD_A	USART2_RX	-	-	-	-	FMC_NWAIT	DCMI_D10	LCD_B2	EVEN TOUT

Table 12. STM32F427xx and STM32F429xx alternate function mapping (continued)

Port		AF0	AF1	AF2	AF3	AF4	AF5	AF6	AF7	AF8	AF9	AF10	AF11	AF12	AF13	AF14	AF15
		SYS	TIM1/2	TIM3/4/5	TIM8/9/ 10/11	I2C1/ 2/3	SPI1/2/ 3/4/5/6	SPI2/3/ SAI1	SPI3/ USART1/ 2/3	USART6/ UART4/5/7 /8	CAN1/2/ TIM12/13/14 /LCD	OTG2_HS /OTG1_ FS	ETH	FMC/SDIO /OTG2_FS	DCMI	LCD	SYS
Port D	PD7	-	-	-	-	-	-	-	USART2_ CK	-	-	-	-	FMC_NE1/ FMC NCE2	-	-	EVEN TOUT
	PD8	-	-	-	-	-	-	-	USART3_ TX	-	-	-	-	FMC_D13	-	-	EVEN TOUT
	PD9	-	-	-	-	-	-	-	USART3_ RX	-	-	-	-	FMC_D14	-	-	EVEN TOUT
	PD10	-	-	-	-	-	-	-	USART3_ CK	-	-	-	-	FMC_D15	-	LCD_B3	EVEN TOUT
	PD11	-	-	-	-	-	-	-	USART3_ CTS	-	-	-	-	FMC_A16	-	-	EVEN TOUT
	PD12	-	-	TIM4_ CH1	-	-	-	-	USART3_ RTS	-	-	-	-	FMC_A17	-	-	EVEN TOUT
	PD13	-	-	TIM4_ CH2	-	-	-	-	-	-	-	-	-	FMC_A18	-	-	EVEN TOUT
	PD14	-	-	TIM4_ CH3	-	-	-	-	-	-	-	-	-	FMC_D0	-	-	EVEN TOUT
	PD15	-	-	TIM4_ CH4	-	-	-	-	-	-	-	-	-	FMC_D1	-	-	EVEN TOUT
Port E	PE0	-	-	TIM4_ ETR	-	-	-	-	-	UART8_Rx	-	-	-	FMC_ NBL0	DCMI_ D2	-	EVEN TOUT
	PE1	-	-	-	-	-	-	-	-	UART8_Tx	-	-	-	FMC_ NBL1	DCMI_ D3	-	EVEN TOUT
	PE2	TRAC ECLK	-	-	-	-	SPI4_ SCK	SAI1_ MCLK_A	-	-	-	-	ETH_MII_ TXD3	FMC_A23	-	-	EVEN TOUT
	PE3	TRAC ED0	-	-	-	-	-	SAI1_ SD_B	-	-	-	-	-	FMC_A19	-	-	EVEN TOUT
	PE4	TRAC ED1	-	-	-	-	SPI4_ NSS	SAI1_ FS_A	-	-	-	-	-	FMC_A20	DCMI_ D4	LCD_B0	EVEN TOUT
	PE5	TRAC ED2	-	-	TIM9_ CH1	-	SPI4_M ISO	SAI1_ SCK_A	-	-	-	-	-	FMC_A21	DCMI_ D6	LCD_G0	EVEN TOUT
	PE6	TRAC ED3	-	-	TIM9_ CH2	-	SPI4_ MOSI	SAI1_ SD_A	-	-	-	-	-	FMC_A22	DCMI_ D7	LCD_G1	EVEN TOUT



Table 12. STM32F427xx and STM32F429xx alternate function mapping (continued)

Port		AF0	AF1	AF2	AF3	AF4	AF5	AF6	AF7	AF8	AF9	AF10	AF11	AF12	AF13	AF14	AF15
		SYS	TIM1/2	TIM3/4/5	TIM8/9/ 10/11	I2C1/ 2/3	SPI1/2/ 3/4/5/6	SPI2/3/ SAI1	SPI3/ USART1/ 2/3	USART6/ UART4/5/7 /8	CAN1/2/ TIM12/13/14 /LCD	OTG2_HS /OTG1_ FS	ETH	FMC/SDIO /OTG2_FS	DCMI	LCD	SYS
Port E	PE7	-	TIM1_ETR	-	-	-	-	-	-	UART7_Rx	-	-	-	FMC_D4	-	-	EVEN TOUT
	PE8	-	TIM1_CH1N	-	-	-	-	-	-	UART7_Tx	-	-	-	FMC_D5	-	-	EVEN TOUT
	PE9	-	TIM1_CH1	-	-	-	-	-	-	-	-	-	-	FMC_D6	-	-	EVEN TOUT
	PE10	-	TIM1_CH2N	-	-	-	-	-	-	-	-	-	-	FMC_D7	-	-	EVEN TOUT
	PE11	-	TIM1_CH2	-	-	-	SPI4_NSS	-	-	-	-	-	-	FMC_D8	-	LCD_G3	EVEN TOUT
	PE12	-	TIM1_CH3N	-	-	-	SPI4_SCK	-	-	-	-	-	-	FMC_D9	-	LCD_B4	EVEN TOUT
	PE13	-	TIM1_CH3	-	-	-	SPI4_MISO	-	-	-	-	-	-	FMC_D10	-	LCD_DE	EVEN TOUT
	PE14	-	TIM1_CH4	-	-	-	SPI4_MOSI	-	-	-	-	-	-	FMC_D11	-	LCD_CLK	EVEN TOUT
	PE15	-	TIM1_BKIN	-	-	-	-	-	-	-	-	-	-	FMC_D12	-	LCD_R7	EVEN TOUT
Port F	PF0	-	-	-	-	I2C2_SDA	-	-	-	-	-	-	-	FMC_A0	-	-	EVEN TOUT
	PF1	-	-	-	-	I2C2_SCL	-	-	-	-	-	-	-	FMC_A1	-	-	EVEN TOUT
	PF2	-	-	-	-	I2C2_SMBA	-	-	-	-	-	-	-	FMC_A2	-	-	EVEN TOUT
	PF3	-	-	-	-	-	-	-	-	-	-	-	-	FMC_A3	-	-	EVEN TOUT
	PF4	-	-	-	-	-	-	-	-	-	-	-	-	FMC_A4	-	-	EVEN TOUT
	PF5	-	-	-	-	-	-	-	-	-	-	-	-	FMC_A5	-	-	EVEN TOUT
	PF6	-	-	-	TIM10_CH1	-	SPI5_NSS	SAI1_SD_B	-	UART7_Rx	-	-	-	FMC_NIORD	-	-	EVEN TOUT
	PF7	-	-	-	TIM11_CH1	-	SPI5_SCK	SAI1_MCLK_B	-	UART7_Tx	-	-	-	FMC_NREG	-	-	EVEN TOUT

Table 12. STM32F427xx and STM32F429xx alternate function mapping (continued)

Port		AF0	AF1	AF2	AF3	AF4	AF5	AF6	AF7	AF8	AF9	AF10	AF11	AF12	AF13	AF14	AF15
		SYS	TIM1/2	TIM3/4/5	TIM8/9/ 10/11	I2C1/ 2/3	SPI1/2/ 3/4/5/6	SPI2/3/ SAI1	SPI3/ USART1/ 2/3	USART6/ UART4/5/7 /8	CAN1/2/ TIM12/13/14 /LCD	OTG2_HS /OTG1_ FS	ETH	FMC/SDIO /OTG2_FS	DCMI	LCD	SYS
Port F	PF8	-	-	-	-	-	SPI5_ MISO	SAI1_ SCK_B	-	-	TIM13_CH1	-	-	FMC_ NIOWR	-	-	EVEN TOUT
	PF9	-	-	-	-	-	SPI5_ MOSI	SAI1_ FS_B	-	-	TIM14_CH1	-	-	FMC_CD	-	-	EVEN TOUT
	PF10	-	-	-	-	-	-	-	-	-	-	-	-	FMC_INTR	DCMI_ D11	LCD_DE	EVEN TOUT
	PF11	-	-	-	-	-	SPI5_ MOSI	-	-	-	-	-	-	FMC_ SDNRAS	DCMI_ D12	-	EVEN TOUT
	PF12	-	-	-	-	-	-	-	-	-	-	-	-	FMC_A6	-	-	EVEN TOUT
	PF13	-	-	-	-	-	-	-	-	-	-	-	-	FMC_A7	-	-	EVEN TOUT
	PF14	-	-	-	-	-	-	-	-	-	-	-	-	FMC_A8	-	-	EVEN TOUT
	PF15	-	-	-	-	-	-	-	-	-	-	-	-	FMC_A9	-	-	EVEN TOUT
Port G	PG0	-	-	-	-	-	-	-	-	-	-	-	-	FMC_A10	-	-	EVEN TOUT
	PG1	-	-	-	-	-	-	-	-	-	-	-	-	FMC_A11	-	-	EVEN TOUT
	PG2	-	-	-	-	-	-	-	-	-	-	-	-	FMC_A12	-	-	EVEN TOUT
	PG3	-	-	-	-	-	-	-	-	-	-	-	-	FMC_A13	-	-	EVEN TOUT
	PG4	-	-	-	-	-	-	-	-	-	-	-	-	FMC_A14/ FMC_BA0	-	-	EVEN TOUT
	PG5	-	-	-	-	-	-	-	-	-	-	-	-	FMC_A15/ FMC_BA1	-	-	EVEN TOUT
	PG6	-	-	-	-	-	-	-	-	-	-	-	-	FMC_INT2	DCMI_ D12	LCD_R7	EVEN TOUT
	PG7	-	-	-	-	-	-	-	-	USART6_ CK	-	-	-	FMC_INT3	DCMI_ D13	LCD_CLK	EVEN TOUT
	PG8	-	-	-	-	-	SPI6_ NSS	-	-	USART6_ RTS	-	-	ETH_PPS_ OUT	FMC_SDC LK	-	-	EVEN TOUT



Table 12. STM32F427xx and STM32F429xx alternate function mapping (continued)

Port		AF0	AF1	AF2	AF3	AF4	AF5	AF6	AF7	AF8	AF9	AF10	AF11	AF12	AF13	AF14	AF15
		SYS	TIM1/2	TIM3/4/5	TIM8/9/ 10/11	I2C1/ 2/3	SPI1/2/ 3/4/5/6	SPI2/3/ SAI1	SPI3/ USART1/ 2/3	USART6/ UART4/5/7 /8	CAN1/2/ TIM12/13/14 /LCD	OTG2_HS /OTG1_ FS	ETH	FMC/SDIO /OTG2_FS	DCMI	LCD	SYS
Port G	PG9	-	-	-	-	-	-	-	-	USART6_ RX	-	-	-	FMC_NE2/ FMC_ NCE3	DCMI_ VSYNC (1)	-	EVEN TOUT
	PG10	-	-	-	-	-	-	-	-	-	LCD_G3	-	-	FMC_ NCE4_1/ FMC_NE3	DCMI_ D2	LCD_B2	EVEN TOUT
	PG11	-	-	-	-	-	-	-	-	-	-	-	ETH_MII_ TX_EN/ ETH_RMII_ TX_EN	FMC_ NCE4_2	DCMI_ D3	LCD_B3	EVEN TOUT
	PG12	-	-	-	-	-	SPI6_ MISO	-	-	USART6_ RTS	LCD_B4	-	-	FMC_NE4	-	LCD_B1	EVEN TOUT
	PG13	-	-	-	-	-	SPI6_ SCK	-	-	USART6_ CTS	-	-	ETH_MII_ TXD0/ ETH_RMII_ TXD0	FMC_A24	-	-	EVEN TOUT
	PG14	-	-	-	-	-	SPI6_ MOSI	-	-	USART6_ TX	-	-	ETH_MII_ TXD1/ ETH_RMII_ TXD1	FMC_A25	-	-	EVEN TOUT
	PG15	-	-	-	-	-	-	-	-	USART6_ CTS	-	-	-	FMC_ SDNCAS	DCMI_ D13	-	EVEN TOUT
Port H	PH0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EVEN TOUT
	PH1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EVEN TOUT
	PH2	-	-	-	-	-	-	-	-	-	-	-	ETH_MII_ CRS	FMC_ SDCKE0	-	LCD_R0	EVEN TOUT
	PH3	-	-	-	-	-	-	-	-	-	-	-	ETH_MII_ COL	FMC_SDN E0	-	LCD_R1	EVEN TOUT
	PH4	-	-	-	-	I2C2_ SCL	-	-	-	-	-	OTG_HS_ ULPI_NXT	-	-	-	-	EVEN TOUT
	PH5	-	-	-	-	I2C2_ SDA	SPI5_N SS	-	-	-	-	-	-	FMC_SDN WE	-	-	EVEN TOUT
	PH6	-	-	-	-	I2C2_ SMBA	SPI5_ SCK	-	-	-	TIM12_CH1	-	-	FMC_ SDNE1	DCMI_ D8	-	-

Table 12. STM32F427xx and STM32F429xx alternate function mapping (continued)

Port		AF0	AF1	AF2	AF3	AF4	AF5	AF6	AF7	AF8	AF9	AF10	AF11	AF12	AF13	AF14	AF15
		SYS	TIM1/2	TIM3/4/5	TIM8/9/ 10/11	I2C3/ 2/3	SPI1/2/ 3/4/5/6	SPI2/3/ SAI1	SPI3/ USART1/ 2/3	USART6/ UART4/5/7 /8	CAN1/2/ TIM12/13/14 /LCD	OTG2_HS /OTG1_ FS	ETH	FMC/SDIO /OTG2_FS	DCMI	LCD	SYS
Port H	PH7	-	-	-	-	I2C3_ SCL	SPI5_ MISO	-	-	-	-	-	ETH_MII_ RXD3	FMC_ SDCKE1	DCMI_ D9	-	-
	PH8	-	-	-	-	I2C3_ SDA	-	-	-	-	-	-	-	FMC_D16	DCMI_ HSYNC	LCD_R2	EVEN TOUT
	PH9	-	-	-	-	I2C3_ SMBA	-	-	-	-	TIM12_CH2	-	-	FMC_D17	DCMI_ D0	LCD_R3	EVEN TOUT
	PH10	-	-	TIM5_ CH1	-	-	-	-	-	-	-	-	-	FMC_D18	DCMI_ D1	LCD_R4	EVEN TOUT
	PH11	-	-	TIM5_ CH2	-	-	-	-	-	-	-	-	-	FMC_D19	DCMI_ D2	LCD_R5	EVEN TOUT
	PH12	-	-	TIM5_ CH3	-	-	-	-	-	-	-	-	-	FMC_D20	DCMI_ D3	LCD_R6	EVEN TOUT
	PH13	-	-	-	TIM8_ CH1N	-	-	-	-	-	CAN1_TX	-	-	FMC_D21	-	LCD_G2	EVEN TOUT
	PH14	-	-	-	TIM8_ CH2N	-	-	-	-	-	-	-	-	FMC_D22	DCMI_ D4	LCD_G3	EVEN TOUT
	PH15	-	-	-	TIM8_ CH3N	-	-	-	-	-	-	-	-	FMC_D23	DCMI_ D11	LCD_G4	EVEN TOUT
Port I	PI0	-	-	TIM5_ CH4	-	-	SPI2_ NSS/I2 S2_WS	-	-	-	-	-	-	FMC_D24	DCMI_ D13	LCD_G5	EVEN TOUT
	PI1	-	-	-	-	-	SPI2_ SCK/I2 S2_CK	-	-	-	-	-	-	FMC_D25	DCMI_ D8	LCD_G6	EVEN TOUT
	PI2	-	-	-	TIM8_ CH4	-	SPI2_ MISO	I2S2ext_ SD	-	-	-	-	-	FMC_D26	DCMI_ D9	LCD_G7	EVEN TOUT
	PI3	-	-	-	TIM8_ ETR	-	SPI2_M OSI/I2S 2_SD							FMC_D27	DCMI_D 10		EVEN TOUT
	PI4	-	-	-	TIM8_ BKIN	-	-	-	-	-	-	-	-	FMC_ NBL2	DCMI_D 5	LCD_B4	EVEN TOUT
	PI5	-	-	-	TIM8_ CH1	-	-	-	-	-	-	-	-	FMC_ NBL3	DCMI_ VSYNC	LCD_B5	EVEN TOUT
	PI6	-	-	-	TIM8_ CH2	-	-	-	-	-	-	-	-	FMC_D28	DCMI_ D6	LCD_B6	EVEN TOUT



Table 12. STM32F427xx and STM32F429xx alternate function mapping (continued)

Port		AF0	AF1	AF2	AF3	AF4	AF5	AF6	AF7	AF8	AF9	AF10	AF11	AF12	AF13	AF14	AF15
		SYS	TIM1/2	TIM3/4/5	TIM8/9/ 10/11	I2C1/ 2/3	SPI1/2/ 3/4/5/6	SPI2/3/ SAI1	SPI3/ USART1/ 2/3	USART6/ UART4/5/7 /8	CAN1/2/ TIM12/13/14 /LCD	OTG2_HS /OTG1_ FS	ETH	FMC/SDIO /OTG2_FS	DCMI	LCD	SYS
Port I	PI7	-	-	-	TIM8_ CH3	-	-	-	-	-	-	-	-	FMC_D29	DCMI_ D7	LCD_B7	EVEN TOUT
	PI8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EVEN TOUT
	PI9	-	-	-	-	-	-	-	-	-	CAN1_RX	-	-	FMC_D30	-	LCD_ VSYNC	EVEN TOUT
	PI10	-	-	-	-	-	-	-	-	-	-	-	ETH_MII_ RX_ER	FMC_D31	-	LCD_ HSYNC	EVEN TOUT
	PI11	-	-	-	-	-	-	-	-	-	-	OTG_HS_ ULPI_DIR	-	-	-	-	EVEN TOUT
	PI12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_ HSYNC	EVEN TOUT
	PI13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_ VSYNC	EVEN TOUT
	PI14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_ CLK	EVEN TOUT
	PI15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_R0	EVEN TOUT
Port J	PJ0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_R1	EVEN TOUT
	PJ1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_R2	EVEN TOUT
	PJ2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_R3	EVEN TOUT
	PJ3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_R4	EVEN TOUT
	PJ4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_R5	EVEN TOUT
	PJ5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_R6	EVEN TOUT
	PJ6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_R7	EVEN TOUT
	PJ7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_G0	EVEN TOUT

Table 12. STM32F427xx and STM32F429xx alternate function mapping (continued)

Port		AF0	AF1	AF2	AF3	AF4	AF5	AF6	AF7	AF8	AF9	AF10	AF11	AF12	AF13	AF14	AF15
		SYS	TIM1/2	TIM3/4/5	TIM8/9/ 10/11	I2C1/ 2/3	SPI1/2/ 3/4/5/6	SPI2/3/ SAI1	SPI3/ USART1/ 2/3	USART6/ UART4/5/7 /8	CAN1/2/ TIM12/13/14 /LCD	OTG2_HS /OTG1_ FS	ETH	FMC/SDIO /OTG2_FS	DCMI	LCD	SYS
Port J	PJ8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_G1	EVEN TOUT
	PJ9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_G2	EVEN TOUT
	PJ10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_G3	EVEN TOUT
	PJ11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_G4	EVEN TOUT
	PJ12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_B0	EVEN TOUT
	PJ13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_B1	EVEN TOUT
	PJ14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_B2	EVEN TOUT
	PJ15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_B3	EVEN TOUT
Port K	PK0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_G5	EVEN TOUT
	PK1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_G6	EVEN TOUT
	PK2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_G7	EVEN TOUT
	PK3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_B4	EVEN TOUT
	PK4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_B5	EVEN TOUT
	PK5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_B6	EVEN TOUT
	PK6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_B7	EVEN TOUT
	PK7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LCD_DE	EVEN TOUT

1. The DCMI_VSYNC alternate function on PG9 is only available on silicon revision 3.