

2.6.5. GD32F405xx pin alternate functions

Table 2-7. Port A alternate functions summary

Pin Nam e	AF0	AF1	AF2	AF3	AF4	AF5	AF6	AF7	AF8	AF9	AF10	AF11	AF1 2	AF13	AF1 4	AF15
PA0		TIMER1 _CH0/TI MER1_ ETI	TIMER 4_CH0	TIME R7_E TI				USAR T1_CT S	UART 3_TX							EVENT OUT
PA1		TIMER1 _CH1	TIMER 4_CH1					USAR T1_RT S	UART 3_RX							EVENT OUT
PA2		TIMER1 _CH2	TIMER 4_CH2	TIME R8_C H0		I2S_ CKIN		USAR T1_TX								EVENT OUT
PA3		TIMER1 _CH3	TIMER 4_CH3	TIME R8_C H1		I2S1 _MC K		USAR T1_R X			USBH S_UL PI_D0					EVENT OUT
PA4						SPI0 _NS S	SPI2_N SS/I2S2 _WS	USAR T1_C K					USB HS_S OF	DCI_H SYNC		EVENT OUT
PA5		TIMER1 _CH0/TI MER1_ ETI		TIME R7_C H0_O N		SPI0 _SC K					USBH S_UL PI_CK					EVENT OUT
PA6		TIMER0 _BRKIN	TIMER 2_CH0	TIME R7_B RKIN		SPI0 _MIS O	I2S1_M CK			TIME R12_ CH0			SDIO _CM D	DCI_P IXCLK		EVENT OUT
PA7		TIMER0 _CH0_ ON	TIMER 2_CH1	TIME R7_C H0_O N		SPI0 _MO SI				TIME R13_ CH0						EVENT OUT
PA8	CK_O UT0	TIMER0 _CH0			I2C2_ SCL			USAR T0_C K		CTC_ SYNC	USBF S_SO F		SDIO _D1			EVENT OUT
PA9		TIMER0 _CH1			I2C2_ SMBA	SPI1 _SC K/I2S 1_C K		USAR T0_TX					SDIO _D2	DCI_D 0		EVENT OUT
PA10		TIMER0 _CH2			I2C2_ TXFR AME			USAR T0_R X			USBF S_ID			DCI_D 1		EVENT OUT
PA11		TIMER0 _CH3						USAR T0_CT S	USAR T5_TX	CAN0 _RX	USBF S_DM					EVENT OUT
PA12		TIMER0 _ETI						USAR T0_RT S		CAN0 _TX	USBF S_DP					EVENT OUT
PA13	JTMS/ SWDI O															EVENT OUT
PA14	JTCK/ SWCL K															EVENT OUT
PA15	JTDI	TIMER1 _CH0/TI MER1_ ETI					SPI2_N SS/I2S2 _WS	USAR T0_TX								EVENT OUT



Table 2-8. Port B alternate functions summary

Pin Name	AF0	AF1	AF2	AF3	AF4	AF5	AF6	AF7	AF8	AF9	AF10	AF11	AF12	AF13	AF14	AF15
PB0		TIMER0_C H1_ON	H2	TIMER7_C H1_ON				SPI2_MOSI /I2S2_SD			USBHS_U LPI_D1		SDIO_D 1			EVENTOUT
PB1		TIMER0_C H2_ON	TIMER2_C H3	TIMER7_C H2_ON							USBHS_U LPI_D2		SDIO_D 2			EVENTOUT
PB2		TIMER1_C H3						SPI2_MOSI /I2S2_SD			USBHS_U LPI D4		SDIO_C K			EVENTOUT
PB3	JTDO/TRA CESWO	TIMER1_C H1				SPI0_SCK	SPI2_SCK /I2S2_CK	USARTO_R X		I2C1_SDA	_					EVENTOUT
PB4	NJTRST		TIMER2_C H0		I2C0_TXF RAME	SPI0_MIS O	SPI2_MIS O	I2S2_ADD_ SD		I2C2_SDA			SDIO_D 0			EVENTOUT
PB5			TIMER2_C H1		I2C0_SMB A	SPI0_MO SI	SPI2_MO SI/I2S2_S D			CAN1_RX	USBHS_U LPI_D7			DCI_D10		EVENTOUT
PB6			TIMER3_C H0		I2C0_SCL			USART0_T X		CAN1_TX				DCI_D5		EVENTOUT
PB7			TIMER3_C H1		I2C0_SDA			USARTO_R X						DCI_VSY NC		EVENTOUT
PB8		TIMER1_C H0/TIMER 1 ETI	TIMER3_C H2	TIMER9_C H0	I2C0_SCL					CAN0_RX			SDIO_D 4	DCI_D6		EVENTOUT
PB9		TIMER1_C H1	TIMER3_C H3	TIMER10_ CH0	I2C0_SDA	SPI1_NSS /I2S1_WS				CAN0_TX			SDIO_D 5	DCI_D7		EVENTOUT
PB10		TIMER1_C H2			I2C1_SCL	SPI1_SCK /I2S1_CK	I2S2_MCK	USART2_T X			USBHS_U LPI_D3		SDIO_D 7			EVENTOUT
PB11		TIMER1_C H3			I2C1_SDA	_		USART2_R X			USBHS_U LPI_D4					EVENTOUT
PB12		TIMER0_B RKIN			Ā	SPI1_NSS /I2S1_WS		USART2_C K		CAN1_RX	USBHS_U LPI_D5		USBHS_ ID			EVENTOUT
PB13		TIMER0_C H0_ON			I2C1_TXF RAME	SPI1_SCK /I2S1_CK		USART2_C TS		CAN1_TX	USBHS_U LPI_D6					EVENTOUT
PB14		TIMER0_C H1_ON		TIMER7_C H1_ON		Ō	I2S1_ADD _SD	USART2_R TS		TIMER11_ CH0			USBHS_ DM			EVENTOUT
PB15	RTC_REFI N	TIMER0_C H2_ON		TIMER7_C H2_ON		SPI1_MO SI/I2S1_S D				TIMER11_ CH1			USBHS_ DP			EVENTOUT



Table 2-9. Port C alternate functions summary

Table 2-3. Port C afternate functions summary																
Pin Name	AF0	AF1	AF2	AF3	AF4	AF5	AF6	AF7	AF8	AF9	AF10	AF11	AF12	AF13	AF14	AF15
PC0											USBHS_U LPI_STP					EVENTOUT
PC1						SPI2_MOSI/I2S 2_SD		SPI1_MOS I/I2S1_SD								EVENTOUT
PC2						SPI1_MISO	I2S1_ADD _SD				USBHS_U LPI_DIR					EVENTOUT
PC3						SPI1_MOSI/I2S 1_SD					USBHS_U LPI_NXT					EVENTOUT
PC4																EVENTOUT
PC5								USART2_ RX								EVENTOUT
PC6			TIMER2_ CH0	TIMER7_ CH0		I2S1_MCK			USART5_TX				SDIO_D6	DCI_D0		EVENTOUT
PC7			TIMER2_ CH1	TIMER7_ CH1		SPI1_SCK/I2S1 _CK	I2S2_MC K		USART5_RX				SDIO_D7	DCI_D1		EVENTOUT
PC8	TRACED0		TIMER2_ CH2	TIMER7_ CH2					USART5_CK				SDIO_D0	DCI_D2		EVENTOUT
PC9	CK_OUT1		TIMER2_ CH3	TIMER7_ CH3	I2C2_SD A	I2S_CKIN							SDIO_D1	DCI_D3		EVENTOUT
PC10							SPI2_SC K/I2S2_C K	USART2_T X	UART3_TX				SDIO_D2	DCI_D8		EVENTOUT
PC11						I2S2_ADD_SD	SPI2_MIS O	USART2_ RX	UART3_RX				SDIO_D3	DCI_D4		EVENTOUT
PC12					I2C1_SD A		SPI2_MO SI/I2S2_S D	USART2_ CK	UART4_TX				SDIO_CK	DCI_D9		EVENTOUT
PC13																EVENTOUT
PC14												_		_		EVENTOUT
PC15																EVENTOUT



Table 2-10. Port D alternate functions summary

Pin Name	AF0	AF1	AF2	AF3	AF4	AF5	AF6	AF7	AF8	AF9	AF10	AF11	AF12	AF13	AF14	AF15
PD0	Aiv	Ail	Al L	AIV	Al 7	Aio	SPI2_MOS I/I2S2_SD	Air	Aio	CANO_R X	Al IU	AI 11	ALIE	Al 10	AI 14	EVENTOUT
PD1								SPI1_NSS /I2S1_WS		CAN0_T X						EVENTOUT
PD2			TIMER2_ETI						UART4_RX				SDIO_CMD	DCI_D11		EVENTOUT
PD3	TRACED1					SPI1_SCK/ I2S1_CK		USART1_ CTS						DCI_D5		EVENTOUT
PD4								USART1_ RTS								EVENTOUT
PD5								USART1_ TX								EVENTOUT
PD6						SPI2_MOSI /I2S2_SD		USART1_ RX						DCI_D10		EVENTOUT
PD7								USART1_ CK								EVENTOUT
PD8								USART2_ TX								EVENTOUT
PD9								USART2_ RX								EVENTOUT
PD10								USART2_ CK								EVENTOUT
PD11								USART2_ CTS								EVENTOUT
PD12			TIMER3_CH0					USART2_ RTS								EVENTOUT
PD13			TIMER3_CH1													EVENTOUT
PD14			TIMER3_CH2													EVENTOUT
PD15	CTC_SYN C		TIMER3_CH3													EVENTOUT



Table 2-11. Port E alternate functions summary

Table 2-11. Port E alternate functions Summary																
Pin Name	AF0	AF1	AF2	AF3	AF4	AF5	AF6	AF7	AF8	AF9	AF10	AF11	AF12	AF13	AF14	AF15
PE0			TIMER 3_ETI											DCI_D2		EVENTOUT
PE1		TIMER0_CH1 _ON												DCI_D3		EVENTOUT
PE2	TRACECK															EVENTOUT
PE3	TRACED0															EVENTOUT
PE4	TRACED1													DCI_D4		EVENTOUT
PE5	TRACED2			TIMER8_CH0										DCI_D6		EVENTOUT
PE6	TRACED3			TIMER8_CH1										DCI_D7		EVENTOUT
PE7		TIMER0_ETI														EVENTOUT
PE8		TIMER0_CH0 _ON														EVENTOUT
PE9		TIMER0_CH0														EVENTOUT
PE10		TIMER0_CH1 _ON														EVENTOUT
PE11		TIMER0_CH1														EVENTOUT
PE12		TIMER0_CH2 _ON														EVENTOUT
PE13		TIMER0_CH2														EVENTOUT
PE14		TIMER0_CH3														EVENTOUT
PE15		TIMER0_BR KIN														EVENTOUT



Table 2-12. Port F alternate functions summary

Table 2-12. Port F alternate functions summary																
Pin Name	AF0	AF1	AF2	AF3	AF4	AF5	AF6	AF7	AF8	AF9	AF10	AF11	AF12	AF13	AF14	AF15
PF0	CTC_SYN C				I2C1_SDA											EVENTOUT
PF1					I2C1_SCL											EVENTOUT
PF2					I2C1_SMB A											EVENTOUT
PF3					I2C1_TXF RAME											EVENTOUT
PF4																EVENTOUT
PF5																EVENTOUT
PF6				TIMER9_C H0												EVENTOUT
PF7				TIMER10_ CH0												EVENTOUT
PF8										TIMER12_ CH0						EVENTOUT
PF9										TIMER13_ CH0						EVENTOUT
PF10														DCI_D11		EVENTOUT
PF11														DCI_D12		EVENTOUT
PF12																EVENTOUT
PF13																EVENTOUT
PF14																EVENTOUT
PF15																EVENTOUT



Table 2-13. Port G alternate functions summary

Table 2-13. For Gallerhate functions Summary																
Pin Name	AF0	AF1	AF2	AF3	AF4	AF5	AF6	AF7	AF8	AF9	AF10	AF11	AF12	AF13	AF14	AF15
PG0																EVENTOUT
PG1																EVENTOUT
PG2																EVENTOUT
PG3																EVENTOUT
PG4																EVENTOUT
PG5																EVENTOUT
PG6														DCI_D12		EVENTOUT
PG7									USART5_ CK					DCI_D13		EVENTOUT
PG8									USART5_ RTS							EVENTOUT
PG9									USART5_ RX					DCI_VSY NC		EVENTOUT
PG10														DCI_D2		EVENTOUT
PG11														DCI_D3		EVENTOUT
PG12									USART5_ RTS							EVENTOUT
PG13	TRACED2								USART5_ CTS							EVENTOUT
PG14	TRACED3								USART5_ TX							EVENTOUT
PG15									USART5_ CTS					DCI_D13		EVENTOUT