

4 Pinouts and pin description

Figure 4. STM32F302x6/8 UFQFN32 pinout

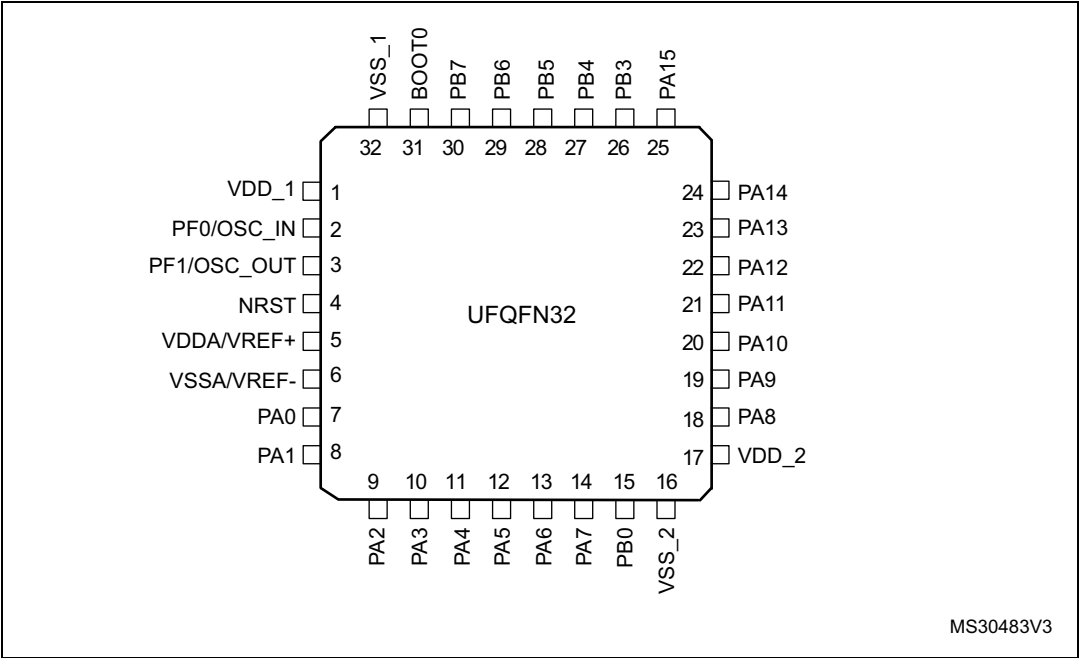


Figure 5. STM32F302x6/8 LQFP48 pinout

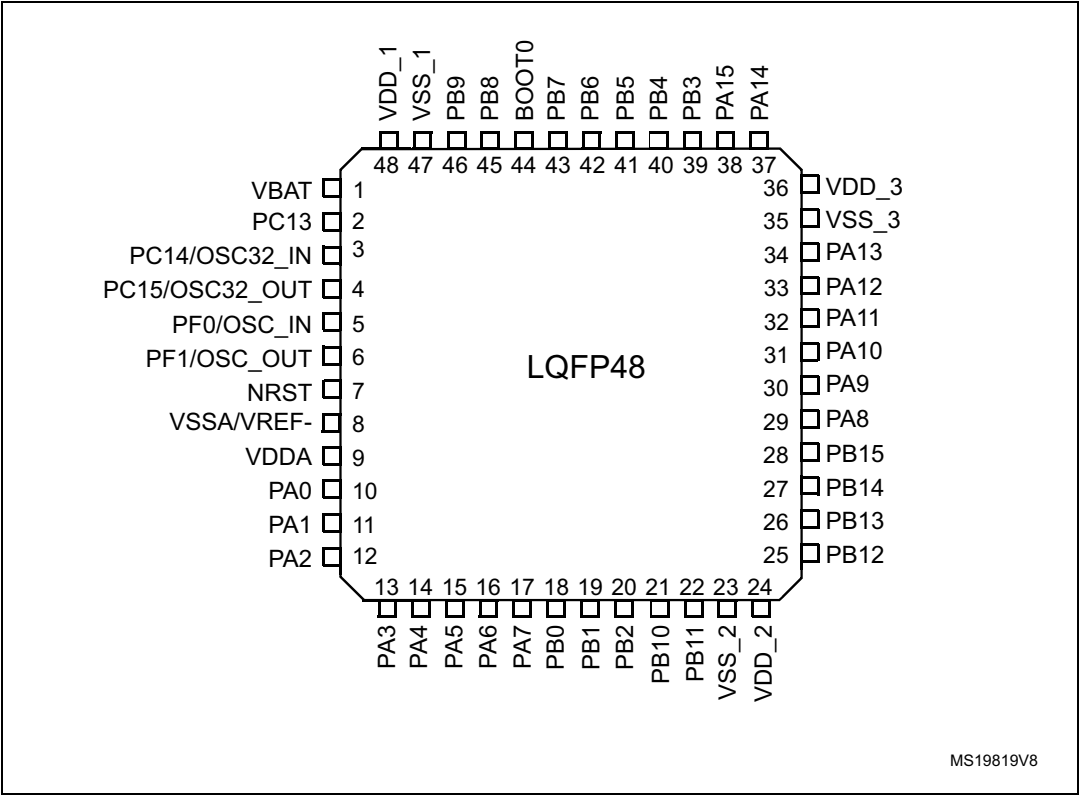


Table 13. Alternate functions for Port A

Port & pin name	AF0	AF1	AF2	AF3	AF4	AF5	AF6	AF7	AF8	AF9	AF10	AF11	AF12	AF13	AF14	AF15
	SYS_AF	TIM2/TIM15/TIM16/TIM17/EVENT	I2C3/TIM1/TIM2/TIM15	I2C3/TIM15/TSC	I2C1/I2C2/TIM1/TIM16/TIM17	SPI2/I2S2/SPI3/I2S3/Infrared	SPI2/I2S2/SPI3/I2S3/TIM1/Infrared	USART1/USART2/USART3/CAN/GPCOMP6	I2C3/GPCOMP2/GPCOMP4/GPCOMP6	CAN/TIM1/TIM15	TIM2/TIM17	TIM1	TIM1			EVENT
PA0	-	TIM2_CH1/ TIM2_ETR	-	TSC_G1_IO1	-	-	-	USART2_CTS	-	-	-	-	-	-	-	EVENT OUT
PA1	RTC_REFIN	TIM2_CH2	-	TSC_G1_IO2	-	-	-	USART2_RTS_DE	-	TIM15_CH1N	-	-	-	-	-	EVENT OUT
PA2	-	TIM2_CH3	-	TSC_G1_IO3	-	-	-	USART2_TX	COMP2_OUT	TIM15_CH1	-	-	-	-	-	EVENT OUT
PA3	-	TIM2_CH4	-	TSC_G1_IO4	-	-	-	USART2_RX	-	TIM15_CH2	-	-	-	-	-	EVENT OUT
PA4	-	-	-	TSC_G2_IO1	-	-	SPI3_NSS/ I2S3_WS	USART2_CK	-	-	-	-	-	-	-	EVENT OUT
PA5	-	TIM2_CH1/ TIM2_ETR	-	TSC_G2_IO2	-	-	-	-	-	-	-	-	-	-	-	EVENT OUT
PA6	-	TIM16_CH1	-	TSC_G2_IO3	-	-	TIM1_BKIN	-	-	-	-	-	-	-	-	EVENT OUT
PA7	-	TIM17_CH1	-	TSC_G2_IO4	-	-	TIM1_CH1N	-	-	-	-	-	-	-	-	EVENT OUT
PA8	MCO	-	-	I2C3_SCL	I2C2_SMBAL	I2S2_MCK	TIM1_CH1	USART1_CK	-	-	-	-	-	-	-	EVENT OUT



Table 13. Alternate functions for Port A (continued)

Port & pin name	AF0	AF1	AF2	AF3	AF4	AF5	AF6	AF7	AF8	AF9	AF10	AF11	AF12	AF13	AF14	AF15
	SYS_AF	TIM2/TIM15/TIM16/TIM17/EVENT	I2C3/TIM1/TIM2/TIM15	I2C3/TIM15/TSC	I2C1/I2C2/TIM1/TIM16/TIM17	SPI2/I2S2/SPI3/I2S3/Infrared	SPI2/I2S2/SPI3/I2S3/Infrared	USART1/USART2/USART3/CAN/GPCOMP6	I2C3/GPCOMP2/GPCOMP4/GPCOMP6	CAN/TIM1/TIM15	TIM2/TIM17	TIM1	TIM1			EVENT
PA9	-	-	I2C3_SMBAL	TSC_G4_IO1	I2C2_SCL	I2S3_MCK	TIM1_CH2	USART1_TX	-	TIM15_BKIN	TIM2_CH3	-	-	-	-	EVENT OUT
PA10	-	TIM17_BKIN		TSC_G4_IO2	I2C2_SDA	SPI2_MISO/I2S2ext_SD	TIM1_CH3	USART1_RX	COMP6_OUT	-	TIM2_CH4	-	-	-	-	EVENT OUT
PA11	-	-	-	-	-	SPI2_MOSI/I2S2_SD	TIM1_CH1N	USART1_CTS	-	CAN_RX	-	TIM1_CH4	TIM1_BKIN2	-	-	EVENT OUT
PA12	-	TIM16_CH1	-	-	-	I2SCKIN	TIM1_CH2N	USART1_RTSD_E	COMP2_OUT	CAN_TX	-	TIM1_ETR	-	-	-	EVENT OUT
PA13	SWDAT-JTMS	TIM16_CH1N	-	TSC_G4_IO3	-	IR-OUT	-	USART3_CTS	-	-	-	-	-	-	-	EVENT OUT
PA14	SWCLK-JTCK		-	TSC_G4_IO4	I2C1_SDA	-	TIM1_BKIN	USART2_TX	-	-	-	-	-	-	-	EVENT OUT
PA15	JTDI	TIM2_CH1/TIM2_ETR	-	TSC_SYNC	I2C1_SCL	-	SPI3_NSS/I2S3_WS	USART2_RX	-	TIM1_BKIN	-	-	-	-	-	EVENT OUT

Table 14. Alternate functions for Port B

Port & pin name	AF0 AF1 AF2 AF3 AF4 AF5 AF6 AF7 AF8 AF9 AF10 AF11 AF12 AF13 AF14 AF15															
	SYS_AF	TIM2/TIM15/TIM16/TIM17/EVENT	I2C3/TIM1/TIM2/TIM15	I2C3/TIM15/TSC	I2C1/I2C2/TIM1/TIM16/TIM17	SPI2/I2S2/SPI3/I2S3/Infrared	SPI2/I2S2/SPI3/I2S3/Infrared	USART1/USART2/USART3/CAN/GPCOMP6	I2C3/GPCOMP2/GPCOMP4/GPCOMP6	CAN/TIM1/TIM15	TIM2/TIM17	TIM1	TIM1			EVENT
PB0	-	-	-	TSC_G3_IO2	-	-	TIM1_CH2N	-	-	-	-	-	-	-	-	EVENT OUT
PB1	-	-	-	TSC_G3_IO3	-	-	TIM1_CH3N	-	COMP4_OUT	-	-	-	-	-	-	EVENT OUT
PB2				TSC_G3_IO4	-	-	-	-	-	-	-	-	-	-	-	EVENT OUT
PB3	JTDO-TRACE SWO	TIM2_CH2	-	TSC_G5_IO1	-	-	SPI3_SCK/I2S3_CK	USART2_TX	-	-	-	-	-	-	-	EVENT OUT
PB4	JTRST	TIM16_CH1	-	TSC_G5_IO2	-	-	SPI3_MISO/I2S3_SD	USART2_RX	-	-	TIM17_BKIN	-	-	-	-	EVENT OUT
PB5	-	TIM16_BKIN	-	-	I2C1_SMBAL	-	SPI3_MOSI/I2S3ext_SD	USART2_CK	I2C3_SDA	-	TIM17_CH1	-	-	-	-	EVENT OUT
PB6	-	TIM16_CH1N	-	TSC_G5_IO3	I2C1_SCL	-	-	USART1_TX	-	-	-	-	-	-	-	EVENT OUT
PB7	-	TIM17_CH1N	-	TSC_G5_IO4	I2C1_SDA	-	-	USART1_RX	-	-	-	-	-	-	-	EVENT OUT
PB8	-	TIM16_CH1	-	TSC_SYNC	I2C1_SCL	-	-	USART3_RX	-	CAN_RX	-	-	TIM1_BKIN	-	-	EVENT OUT



Table 14. Alternate functions for Port B (continued)

Port & pin name	AF0	AF1	AF2	AF3	AF4	AF5	AF6	AF7	AF8	AF9	AF10	AF11	AF12	AF13	AF14	AF15
	SYS_AF	TIM2/TIM15/TIM16/TIM17/EVENT	I2C3/TIM1/TIM2/TIM15	I2C3/TIM15/TSC	I2C1/I2C2/TIM1/TIM16/TIM17	SPI2/I2S2/SPI3/I2S3/Infrared	SPI2/I2S2/SPI3/I2S3/TIM1/Infrared	USART1/USART2/USART3/CAN/GPCOMP6	I2C3/GPCOMP2/GPCOMP4/GPCOMP6	CAN/TIM1/TIM15	TIM2/TIM17	TIM1	TIM1			EVENT
PB9	-	TIM17_CH1	-	-	I2C1_SDA	-	IR-OUT	USART3_TX	COMP2_OUT	CAN_TX	-	-	-	-	-	EVENT OUT
PB10	-	TIM2_CH3	-	TSC_SYNC	-	-	-	USART3_TX	-	-	-	-	-	-	-	EVENT OUT
PB11	-	TIM2_CH4	-	TSC_G6_IO1	-	-	-	USART3_RX	-	-	-	-	-	-	-	EVENT OUT
PB12	-	-	-	TSC_G6_IO2	I2C2_SMBAL	SPI2_NSS/I2S2_WS	TIM1_BKIN	USART3_CK	-	-	-	-	-	-	-	EVENT OUT
PB13	-	-	-	TSC_G6_IO3	-	SPI2_SCK/I2S2_CK	TIM1_CH1N	USART3_CTS	-	-	-	-	-	-	-	EVENT OUT
PB14	-	TIM15_CH1	-	TSC_G6_IO4	-	SPI2_MISO/I2S2_ext_SD	TIM1_CH2N	USART3_RTS_DE	-	-	-	-	-	-	-	EVENT OUT
PB15	RTC_REFIN	TIM15_CH2	TIM15_CH1N	-	TIM1_CH3N	SPI2_MOSI/I2S2_SD	-	-	-	-	-	-	-	-	-	EVENT OUT

Table 15. Alternate functions for Port C

Port & pin name	AF0	AF1	AF2	AF3	AF4	AF5	AF6	AF7
	SYS_AF	TIM2/TIM15/ TIM16/TIM17/ EVENT	I2C3/TIM1/TIM2 /TIM15	I2C3/TIM15/ TSC	I2C1/I2C2/TIM1/ TIM16/TIM17	SPI2/I2S2/ SPI3/I2S3 Infrared	SPI2/I2S2/SPI3/ I2S3/TIM1/ Infrared	USART1/ USART2/ USART3/CAN/ GPCOMP6
PC0	-	EVENTOUT	TIM1_CH1	-	-	-	-	-
PC1	-	EVENTOUT	TIM1_CH2	-	-	-	-	-
PC2	-	EVENTOUT	TIM1_CH3	-	-	-	-	-
PC3	-	EVENTOUT	TIM1_CH4	-	-	-	TIM1_BKIN2	-
PC4	-	EVENTOUT	TIM1_ETR	-	-	-	-	USART1_TX
PC5	-	EVENTOUT	TIM15_BKIN	TSC_G3_IO1	-	-	-	USART1_RX
PC6	-	EVENTOUT	-	-	-	-	I2S2_MCK	COMP6_OUT
PC7	-	EVENTOUT	-	-	-	-	I2S3_MCK	-
PC8	-	EVENTOUT	-	-	-	-	-	-
PC9	-	EVENTOUT	-	I2C3_SDA	-	I2SCKIN	-	-
PC10	-	EVENTOUT	-	-	-	-	SPI3_SCK/ I2S3_CK	USART3_TX
PC11	-	EVENTOUT	-	-	-	-	SPI3_MISO/ I2S3ext_SD	USART3_RX
PC12	-	EVENTOUT	-	-	-	-	SPI3_MOSI/ I2S3_SD	USART3_CK
PC13	-	-	-	-	TIM1_CH1N	-	-	-
PC14	-	-	-	-	-	-	-	-
PC15	-	-	-	-	-	-	-	-



Table 16. Alternate functions for Port D

Port & pin name	AF0	AF1	AF2	AF3	AF4	AF5	AF6	AF7
	SYS_AF	TIM2/TIM15/ TIM16/TIM17/ EVENT	I2C3/TIM1/TIM2/ TIM15	I2C3/TIM15/TSC	I2C1/I2C2/TIM1/ TIM16/TIM17	SPI2/I2S2/ SPI3/I2S3/ Infrared	SPI2/I2S2/SPI3/ I2S3/TIM1/ Infrared	USART1/ USART2/ USART3/CAN/ GPCOMP6
PD2	-	EVENTOUT	-	-	-	-	-	-

Table 17. Alternate functions for Port F

Port & pin name	AF0	AF1	AF2	AF3	AF4	AF5	AF6	AF7
	SYS_AF	TIM2/TIM15/ TIM16/TIM17/ EVENT	I2C3/TIM1/TIM2/ TIM15	I2C3/TIM15/TSC	I2C1/I2C2/TIM1/ TIM16/TIM17	SPI2/I2S2/ SPI3/I2S3/ Infrared	SPI2/I2S2/SPI3/ I2S3/TIM1/ Infrared	USART1/USAR T2/USART3/ CAN/GPCOMP6
PF0	-	-	-	-	I2C2_SDA	SPI2_NSS/ I2S2_WS	TIM1_CH3N	-
PF1	-	-	-	-	I2C2_SCL	SPI2_SCK/ I2S2_CK	-	-