

Port		AF7	AF8	AF9	AF10	AF11	AF12	AF13	AF14	AF15
		SPI2/3/ USART1/ 2/3/UART 5/SPDIFR X	SAI/ USART6/ UART4/5/ SPDIFRX	CAN1/2 TIM12/13/ 14/ QUADSPI	SAI2/ QUADSPI/ OTG2_HS/ OTG1_FS	OTG1_FS	FMC/ SDIO/ OTG2_FS	DCMI	-	SYS
Port A	PA0	USART2_ CTS	UART4_ TX	-	-	-	-	-	-	EVENT OUT
	PA1	USART2_ RTS	UART4_ RX	QUADSPI_ BK1_IO3	SAI2_ MCLK_B	-	-	-	-	EVENT OUT
	PA2	USART2_ TX	SAI2_ SCK_B	-	-	-	-	-	-	EVENT OUT
	PA3	USART2_ RX	-	-	OTG_HS_ ULPI_D0	-	-	-	-	EVENT OUT
	PA4	USART2_ CK	-	-	-	-	OTG_HS_ SOF	DCMI_ HSYNC	-	EVENT OUT
	PA5	-	-	-	OTG_HS_ ULPI_CK	-	-	-	-	EVENT OUT
	PA6	-	-	TIM13_CH1	-	-	-	DCMI_ PIXCLK	-	EVENT OUT
	PA7	-	-	TIM14_CH1	-	-	FMC_ SDNWE	-	-	EVENT OUT
	PA8	USART1_ CK	-	-	OTG_FS_ SOF	-	-	-	-	EVENT OUT
	PA9	USART1_ TX	-	-	-	-	-	DCMI_D0	-	EVENT OUT
	PA10	USART1_ RX	-	-	OTG_FS_ ID	-	-	DCMI_D1	-	EVENT OUT
	PA11	USART1_ CTS	-	CAN1_RX	OTG_FS_ DM	-	-	-	-	EVENT OUT
	PA12	USART1_ RTS	SAI2_ FS_B	CAN1_TX	OTG_FS_ DP	-	-	-	-	EVENT OUT
	PA13	-	-	-	-	-	-	-	-	EVENT OUT
	PA14	-	-	-	-	-	-	-	-	EVENT OUT
	PA15	-	UART4_RT S	-	-	-	-	-	-	EVENT OUT

**Table 4-6: Alternate Functions (AF) Pin Multiplexing for Port A in STM32F446 Arm. See Appendix B for other Ports. (See AF table for your device)**

### Example 4-6

In a given ST Miro Arm trainer USART2 port is used for serial ports. Find the values for registers GPIO\_MODER and GPIO\_AFRL if pins PA2 and PA3 are used for TxD and RxD.