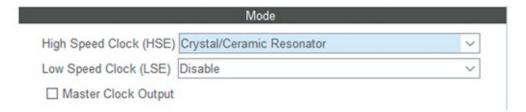
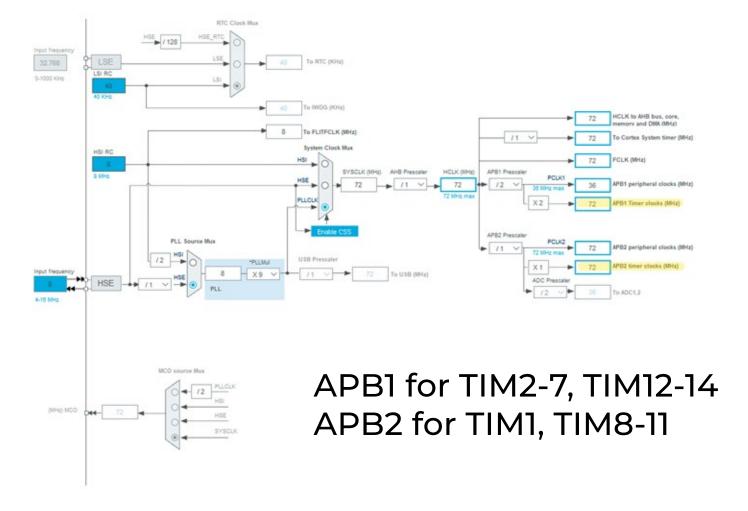
Installing of a WS2812b library

1. Start your CubeMX Project, set debug and set RCC to External resonator.

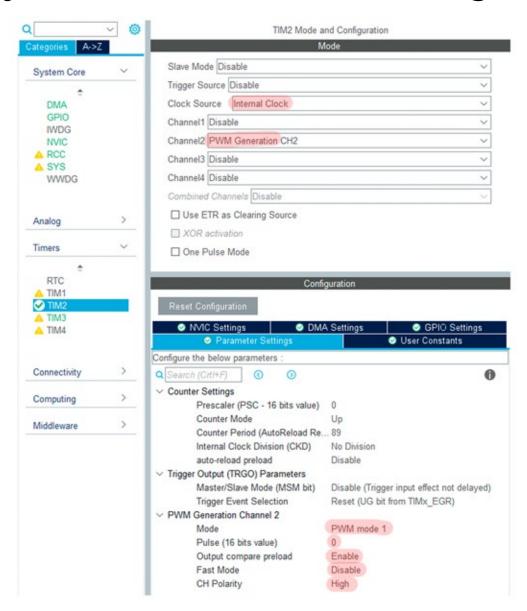


2. Set APBx clocks to 72 MHz



Installing of a WS2812b library

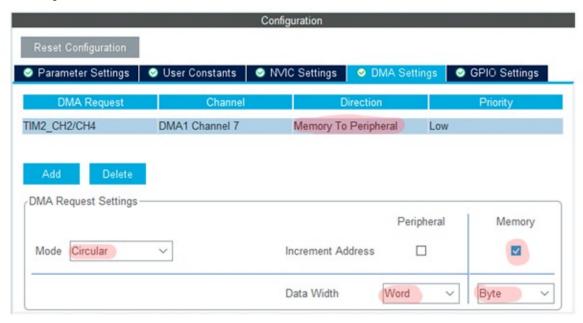
- 3. Configure preferred timer and channel.
- 4. Pay attention to channel settings.



* In next version timer's auto-calculation will work. Now it works only on 72 MHz.

Installing of a WS2812b library

5. Set up DMA channel.



- 6. Now save .ioc file and generate code.
- 7. Add the library to your source destination and include it in your code.
- 8. Search for DMA Handler in main.c file.
- 9. Add this handler and other settings in .h file.

```
© main.c 

© app_ h "ws2812.h 

© app_main.c
                                                                                     © Settings.h
                                                                                                   c main.c
                                                                                                               c app_main.h
.c app_main.c
                                                             /* TIMER */
                                                          30 #define TIM_HANDLE htim2
                                                                                                   // Select your timer
  42 /* Private variables --
                                                          31 #define TIM NUM
  43 ADC_HandleTypeDef hadc1;
                                                          32 #define TIM_POINTER TIM2
                                                             /* TIMER CHANNEL */
  45 TIM_HandleTypeDef htim2;
                                                          34 #define TIM_CH
35 /* DMA CHANNEL */
                                                                               TIM_CHANNEL_2
  46 TIM_HandleTypeDef htim3;
                                                        36 #define DMA_HANDLE hdma_tim2_ch2_ch4 // search for it in main.c
  47 DMA_HandleTypeDef hdma_tim2_ch2_ch4;
```

10. Now it is ready to work!