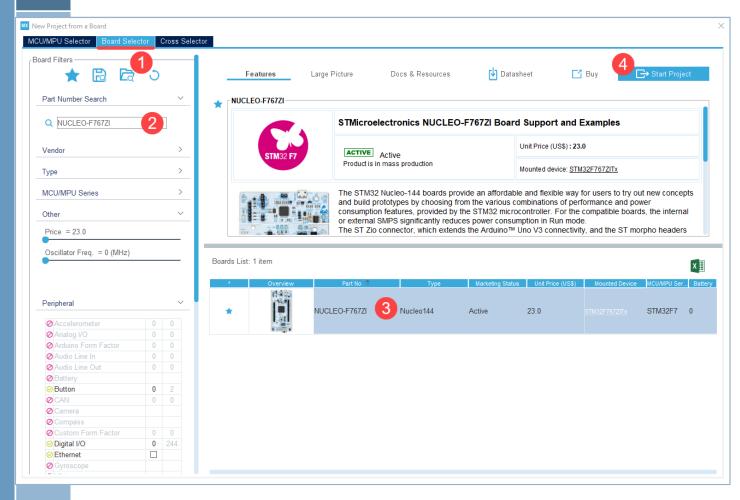
STM32CubeMX Board Selector

Microcontroller Application and Development Sorayut Glomglome

Nucleo-F767

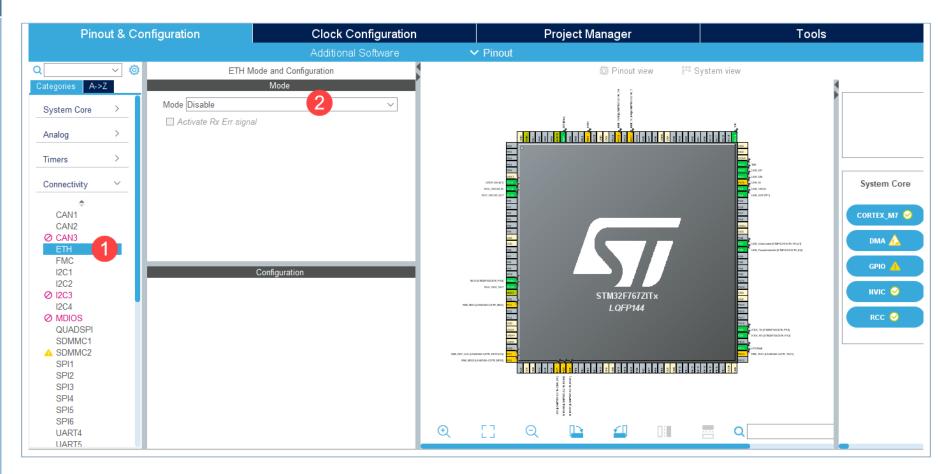
 π

Select Board



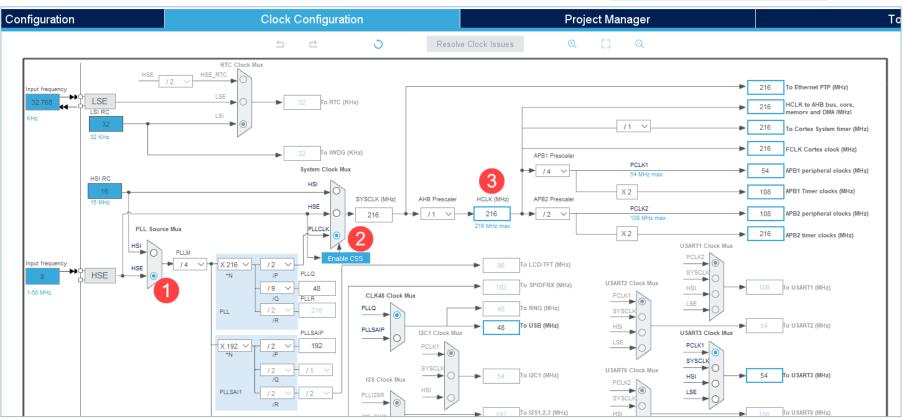


Disable Ethernet - caused slow init



Enable HSE

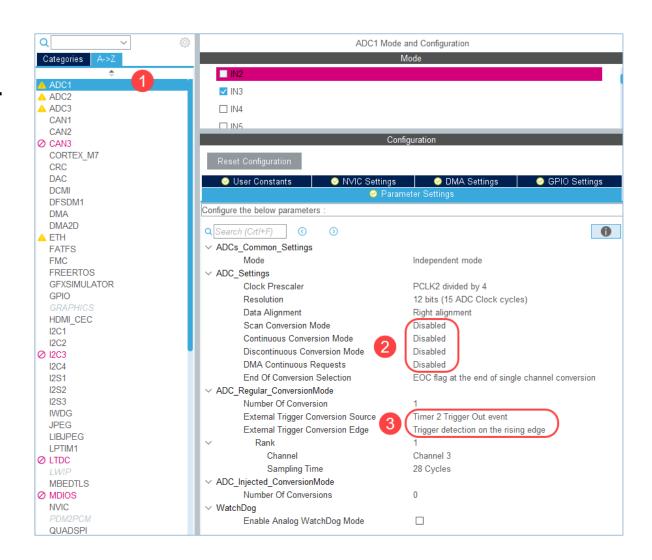




ADC with TIM - Nucleo-F767

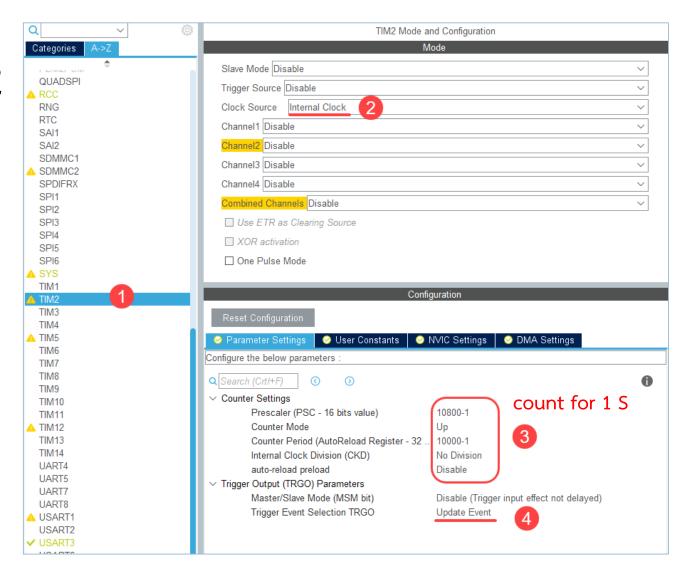
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Config ADC1

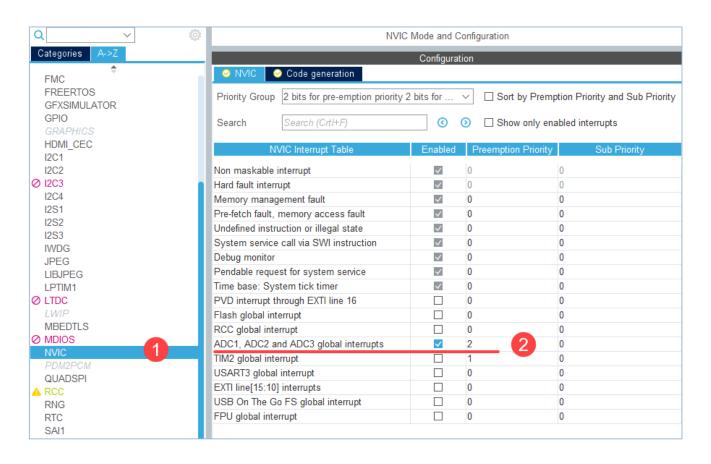


 π

Config TIM2



Config NVIC



Start TIM2 & ADC_IT in main.c

```
/* USER CODE BEGIN 2 */

HAL_TIM_Base_Start(&htim2);
HAL_ADC_Start_IT(&hadc1);

/* USER CODE END 2 */

/* Infinite loop */
/* USER CODE BEGIN WHILE */
while (1)
{
    /* USER CODE END WHILE */
    /* USER CODE BEGIN 3 */
}
/* USER CODE END 3 */
```

ADC Callback in main.c

- Read ADC value
- Show result by UART3

```
/* USER CODE BEGIN 4 */
void HAL_ADC_ConvCpltCallback(ADC_HandleTypeDef* hadc)
{
    uint32_t adcVal;
    char adcResult[30];

    HAL_GPIO_TogglePin(GPIOB, GPIO_PIN_7);

    adcVal = HAL_ADC_GetValue(hadc);

    sprintf(adcResult, "ADC_Val = 0x%010X\n\r", adcVal);
    HAL_UART_Transmit(&huart3, (uint8_t *) adcResult, strlen(adcResult), 100);
}
/* USER CODE END 4 */
```