SPI Kullanımı

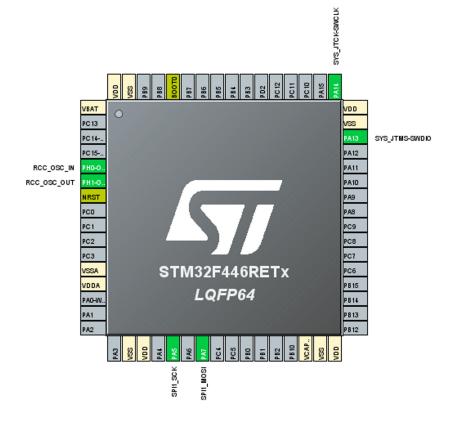
14 Mayıs 2022 Cumartesi 11:49

SPI Kullanımı

➤ HAL

Master

Konfigürasyon Kısmı



Pin 🌻	Signal on Pin	GPIO o	GPIO m	GPIO	Maximu	User	Modif
PA5	SPI1_SCK	n/a	Alternat	No pul	Very Hi		
PA7	SPI1_MOSI	n/a	Alternat	No pul	Very Hi		

Mode Transmit Only Master	~
Hardware NSS Signal Disable	~

Basic Parameters

Frame Format Motorola
Data Size 8 Bits
First Bit MSB First

Clock Parameters

Prescaler (for Baud Rate. 2

Baud Rate 8.0 MBits/s

Clock Polarity (CPOL) Low Clock Phase (CPHA) 1 Edge

Advanced Parameters

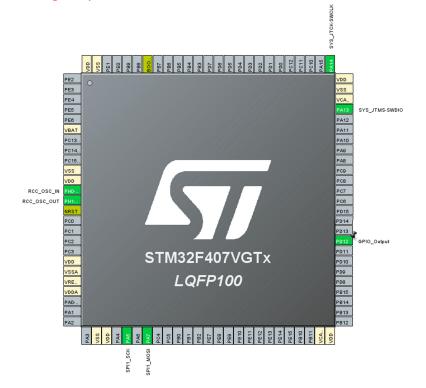
CRC Calculation Disabled NSS Signal Type Software

Kod Kısmı

```
57 /* USER CODE BEGIN 0 */
58 uint8_t TxBuffer[1] = {0};
59 /* USER CODE END 0 */
    /* USER CODE BEGIN 2 */
90
      int i=0;
91
      /* USER CODE END 2 */
92
 96
      while (1)
 97
 98
        /* USER CODE END WHILE */
 99
         /* USER CODE BEGIN 3 */
100
101
          for(i= 0; i< 50; i++){</pre>
102
               TxBuffer[0] = i;
103
104
              HAL_SPI_Transmit (&hspi1, TxBuffer, sizeof(TxBuffer), 1000);
105
              HAL_Delay(1000);
106
          }
107
108
      /* USER CODE END 3 */
109 }
```

<u>Slave</u>

Konfigürasyon Kısmı



Pin 💠	Signal o GPIC	ou GPIO	m GPIC	P Maxi	mu User	La Modified
PD12	n/a Low	Outpu	ıt P No pu	ıll-u Low		
Pin 💠	Signal on Pin	GPIO ou	GPIO m	GPIO P	Maximu	User Modif
PA5	SPI1_SCK	n/a	Alternat	No pull-u	Very High	
PA7	SPI1_MOSI	n/a	Alternat	No pull-u	Very High	

Mode Receive Only Slave	V
Hardware NSS Signal Disable	~

```
Basic Parameters
    Frame Format
                                Motorola
    Data Size
                                8 Bits
    First Bit
                                MSB First
Clock Parameters
    Clock Polarity (CPOL)
                                Low
    Clock Phase (CPHA)
                                1 Edge
Advanced Parameters
    CRC Calculation
                                Disabled
    NSS Signal Type
                                Software
Kod Kısmı
44 /* USER CODE BEGIN PV */
45 uint8_t RxBuffer[1];
46 /* USER CODE END PV */
96 while (1)
 97
        /* USER CODE END WHILE */
 98
 99
        /* USER CODE BEGIN 3 */
100
          HAL_SPI_Receive (&hspi1, RxBuffer, sizeof(RxBuffer), 1000);
101
102
103
          if (RxBuffer[0] == 3)
104
              HAL_GPIO_WritePin(GPIOD, GPIO_PIN_12, GPIO_PIN_SET);
105
106
          }
          else{
107
108
              HAL_GPIO_WritePin(GPIOD, GPIO_PIN_12, GPIO_PIN_RESET);
109
110
          HAL_Delay(1000);
111
      /* USER CODE END 3 */
112
113 }
```