

```

21 unsigned char testbyte;
22
23 void SendByte(unsigned int MemAddress, unsigned char MemData) //FM25W256-G Device
24 {
25     MEM_EN_Write(false);
26     SPI_WriteByte(WREN); //0x06
27     MEM_EN_Write(true);
28     MEM_EN_Write(false);
29     SPI_WriteByte(MEMWRITE); //0x02
30     SPI_WriteByte(MemAddress >> 16);
31     SPI_WriteByte(MemAddress >> 8);
32     SPI_WriteByte(MemAddress);
33     SPI_WriteByte(MemData);
34     MEM_EN_Write(true);
35 }
36
37 unsigned char ReadByte(unsigned int MemAddress)
38 {
39     unsigned char i;
40
41     MEM_EN_Write(false);
42     SPI_WriteByte(MEMREAD); //0x03
43     SPI_WriteByte(MemAddress >> 16);
44     SPI_WriteByte(MemAddress >> 8);
45     SPI_WriteByte(MemAddress);
46     i = SPI_ReadByte();
47     MEM_EN_Write(true);
48     return i;
49 }
50
51 void init(void)
52 {
53     CyGlobalIntEnable;
54     PWM_Start();
55     SPI_Init();
56 }
57
58 int main()
59 {
60     init();
61     for(;;)
62     {
63         SendByte(0x01, 0x33);
64         testbyte = ReadByte(0x01);

```

Configure 'SPI_Master'



Name: SPI

Configure **Advanced** Built-in



Clock Selection:

- Internal Clock External Clock

High Speed Mode:

- Enable High Speed Mode

Buffer Sizes:

Rx Buffer Size (8-bit words): 4

Tx Buffer Size (8-bit words): 4

Interrupts:

- | | |
|---|---|
| <input type="checkbox"/> Enable Tx Internal Interrupt | <input type="checkbox"/> Enable Rx Internal Interrupt |
| <input type="checkbox"/> Interrupt On SPI Done | <input type="checkbox"/> Interrupt On Rx FIFO Full |
| <input type="checkbox"/> Interrupt On Tx FIFO Empty | <input type="checkbox"/> Interrupt On Rx FIFO Not Empty |
| <input type="checkbox"/> Interrupt On Tx FIFO Not Full | <input type="checkbox"/> Interrupt On Rx FIFO Overrun |
| <input type="checkbox"/> Interrupt On Byte/Word Transfer Complete | |
| <input type="checkbox"/> Interrupt On SPI Idle | |

Datasheet

OK

Apply

Cancel

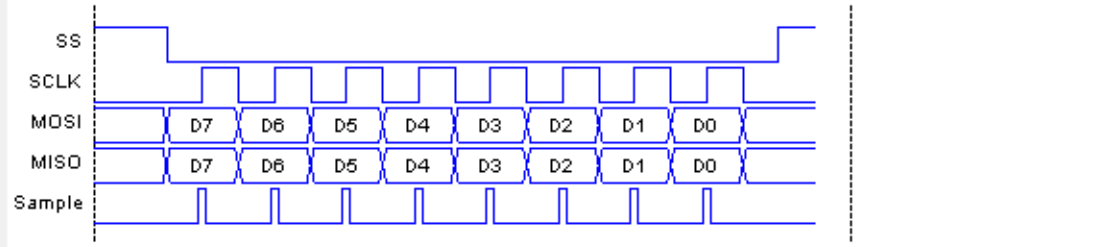
Configure 'SPI_Master'

Name:

Configure

Advanced

Built-in



Mode:

Data Lines:

Data Bits:

Shift Direction:

Bit Rate:

Datasheet

OK

Apply

Cancel