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| FT8835 SPI0与HOST通信协议 | |
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| Document ref |  |
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### SPI0 命令格式如下：

###### 1.命令包



A.命令包配置字解释

命令包第2个字节，为配置字：

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | W/R | C |  | L3 | L2 | L1 | L0 |

BIT7: NA

BIT6: 0:写 ; 1: 读

BIT5: 0：命令包和数据包不带CRC; 1：命令包和数据包带CRC。

BIT4: NA

BIT3-0: 命令长度

###### 2.数据包\_写



###### 2.数据包\_读



###### 3.状态包



###### 4.状态位解释

1字节，标志位说明如下表：

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| busy | NA | NA | NA | Cmd\_err | Crc\_err | NA | NA |

BIT7: busy =0,从机空闲; busy =1, 从机忙。

BIT6-4: NA

BIT3: 0: CMD正确; 1: CMD错误;

BIT2: 0: CRC正确; 1: CRC错误;

BIT1-0: NA

### 二、命令示例

###### 1. Reset

发送此命令可以让FT8835Reset，重新运行程序

MOSI：发送 0XC0 0X01 0X07

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CS\_L | 0XC0 | 0X01 | 0x07 | CS\_H |

W: C0 01 07

###### 2.读ID号

MOSI：发送 0XC0 0X44 0X90 0X00 0X00 0X00

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| CS\_L | 0XC0 | 0X44 | 0X90 | 0 | 0 | 0 | CS\_H |

MOSI：发送 0XC3 DUMMY\*2

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CS\_L | 0XC3 | 0 | 0 | CS\_H |

MISO：从机输出 1+ DATA\*2

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CS\_L | STA | 0x88 | 0x35 | CS\_H |

W C0 44 90 00 00 00

W C3 R 02 (Boot返回 0x88 0x35)

###### 3.写PRAM

MOSI：发送 0XC0 0X06 0XAE ADDH ADDM ADDL LEN1 LEN0

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| CS\_L | 0XC0 | 0X06 | 0XAE | ADDH | ADDM | ADDL | LEN1 | LEN0 | CS\_H |

MOSI：发送 0XC3 0XAE DATA\*N

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| CS\_L | 0XC3 | DATA | DATA | DATA | …… | CS\_H |

W C0 06 AE ADDH ADDM ADDL LEN1 LEN0

W C3 DATA0 DATA1 DATA2 …….DATAN

###### 4.读PRAM

MOSI：发送 0XC0 0X46 0X85 ADDH ADDM ADDL LEN1 LEN0

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| CS\_L | 0XC0 | 0X46 | 0X85 | ADDH | ADDM | ADDL | LEN1 | LEN0 | CS\_H |

MOSI：发送 0XC3 DUMMY\*N

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| CS\_L | 0XC3 | 0 | 0 | 0 | …… | CS\_H |

MISO：从机输出 1+ DATA\*N

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| CS\_L | STA | DATA | DATA | DATA | …… | CS\_H |