

## HM5926&HM5927&HM5927A\_MCU 配合使用说明

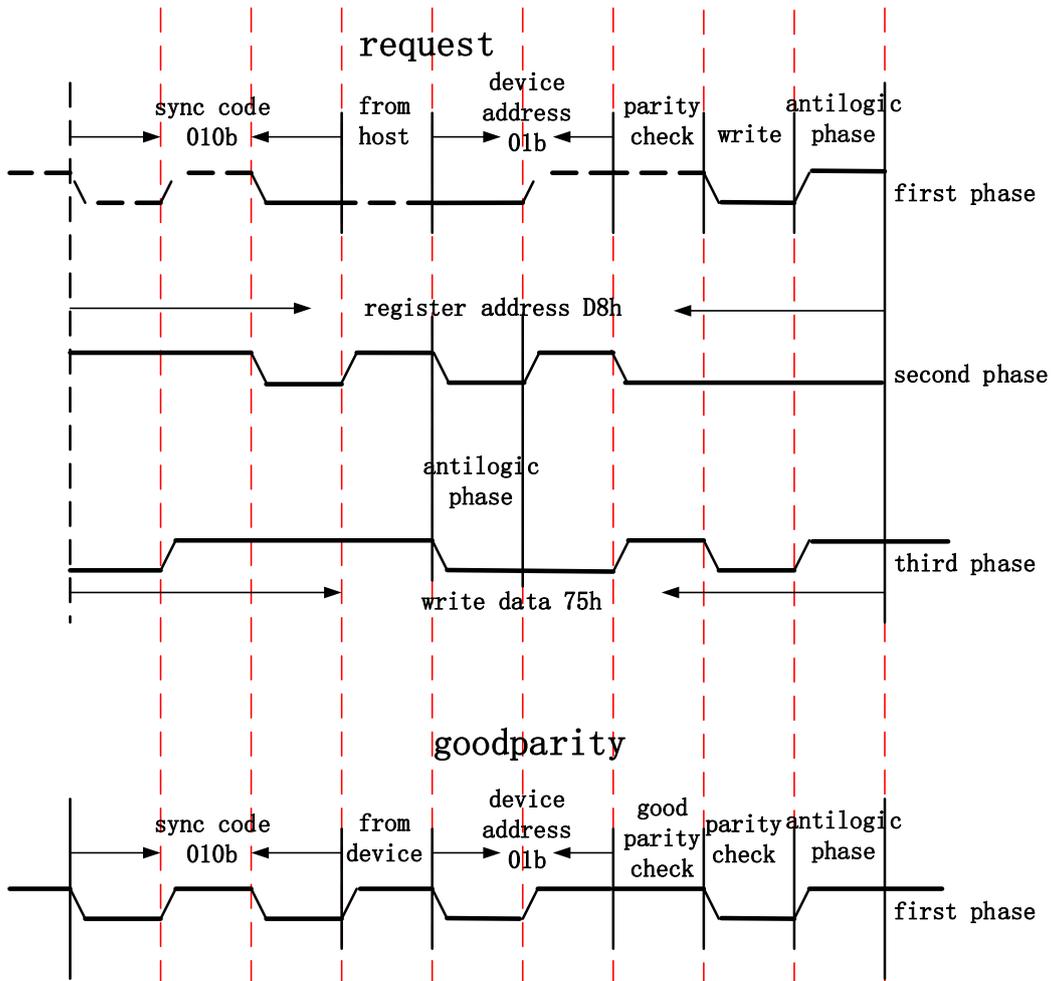
HM5926&HM5927&HM5927A 系列 PowerBank 多合一智能芯片,内部集成智能控制单元,并自带单线总线(SWB)通信模块,可以和 MCU 通过 SWB 进行实时通信,完成状态查询和实时控制。

# 1 单线总线 SWB 使用说明

SWB 是使用简单的单线接口,可自动进行频率同步,最高可达 10Kbit/S 的速率。

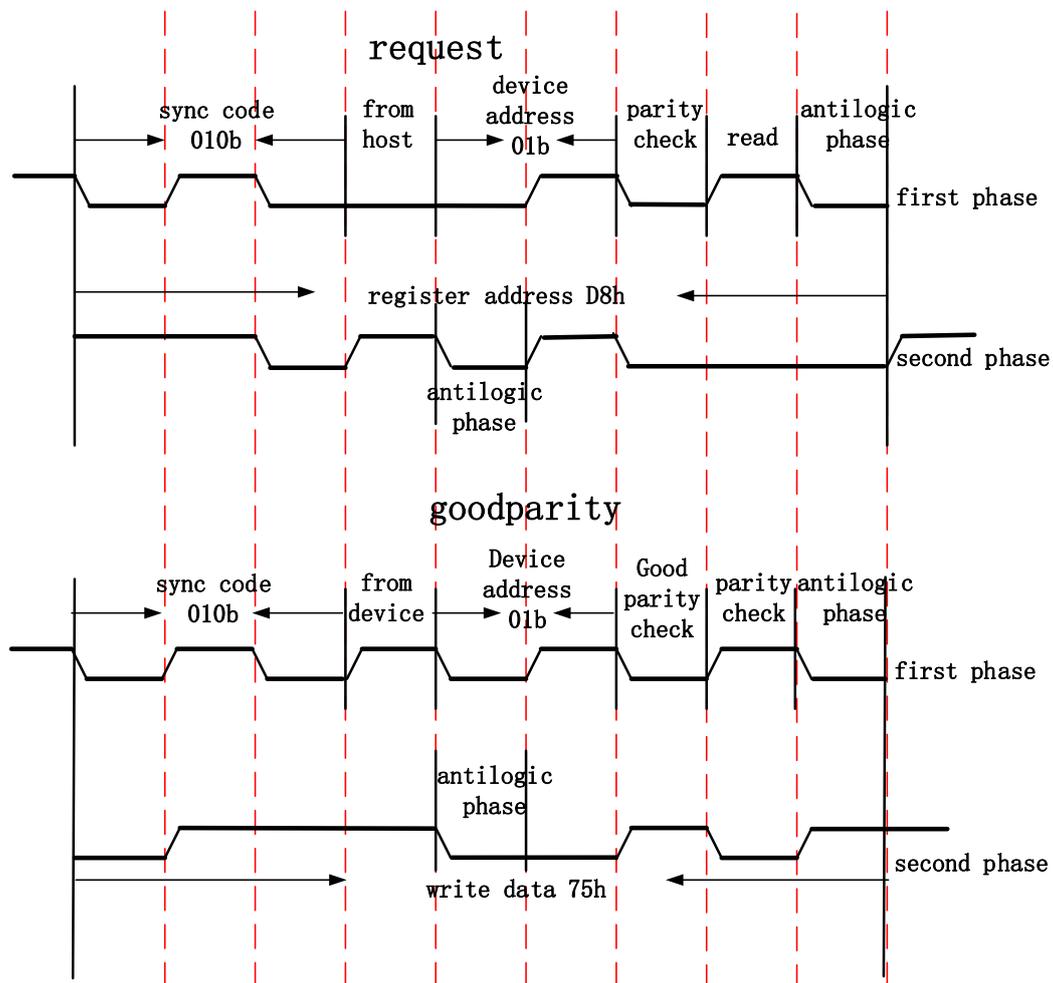
## 1.1 写时序

举例: Register address: D8h, Write Data: 75h, SW60X HM5926&HM5927&HM5927A  
device address : 01b



## 1.2 读时序

举例: Register address: D8h, D8 Register read data: 75h



## 2 寄存器使用说明

HM5926&HM5927&HM5927A系列内置多组寄存器，通过 SWB 访问，可实现实时的状态查询和功能控制

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## 2.1 充电 Charger 寄存器

### 2.1.1 充电状态寄存器 REG 04[5]

5	Charge flag 0: discharge 1: charge	R	0x0
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### 2.1.2 充电电流寄存器 REG 04[7-6]

7-6	Charging current: 0: 2.0A;1: 2.5A;2: 3.5A;3:3.0A;	R/ W	OTP
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### 2.1.3 充电电池截止电压寄存器 REG 03[5-4]

5-4	Battery type: 0: 4.4v;1: 4.35v;2: 4.24v;3: 4.2v; Note: 4-3 bit writing available and 5-4 bit reading available	R/ W	OTP
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### 2.1.4 充电外部电源指示寄存器 REG 00[7]

7	External power(VIN or VBUS) exist 0: exist; 1: not exist;	R	0x0
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## 2.2 放电 Boost 寄存器

### 2.2.1 放电状态寄存器 REG 12[0]

0	Boost power on flag 0: off, 1:on;	R	0x0
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### 2.2.2 放电轻载检测寄存器 REG 03[7-6]

7-6	升压轻载检测电流设置	R/W	1
	0: 20mA; 1: 60mA; 2:Reserved; 3: 40mA;		

## 2.3 电量指示寄存器

### 2.3.1 电池电压寄存器 REG 04[4-0]

4-0	Fuel indication $(2.9+x*0.05)v$ 0:2.9v 1:2.95v . . 31: 4.45v	R	0x0
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### 2.3.2 LED 连接状态寄存器 REG 12[2-1]

2-1	Led connect mode 0:reserved; 1: 3 leds; 2: 4leds; 3: 5leds;	R	0x0
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## 2.4 TYPE-C 指示寄存器

### 2.4.1 Type-C 状态寄存器 REG 01[7-0]

Bit	Description	R/W	Default
7	EMARKER exist 0: not exist 1: exist	R	0x0
6	/	/	/
5-4	CC current role under DRP mode 0:untach; 1: UFP; 2: DFP; 3: reserved	R	0x0
3-2	DFP power level info 0: standard power 1: 1.5A 2: 3.0A 3: reserved	R	0x0
1-0	UFP power level info 0: standard power 1: 1.5A 2: 3.0A 3: reserved	R	0x0

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### 2.4.2 Type-C IRQ 寄存器 REG 03[2-0]

2-0	IRQ indication 0: reserved 1: dfp tach 2: ufp tach 3: dfp detach 4: ufp detach 5: ufp pwr level change 6: dfp pwr level change	R	0x0
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### 2.4.3 Type-C 角色切换寄存器 REG 00[0]

0	Role swap enable, clear by device automatically 0: nothing 1: role swap enable	R/ W	0x0
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