# JLX12896G-946-PC 带字库 IC 的编程说明书

## 目 录

序号	内 容 标 题 页码											
1	概述 2											
2	字型样张	字型样张 3										
3	外形尺寸及接口引脚功能	4~6										
4	工作电路框图	6										
5	指令	7~8										
6	字库的调用方法	9~19										
7	硬件设计及例程	20~末页										

## 1. 概述

JLX12896G-946-PC 型液晶显示模块既可以当成普通的图像型液晶显示模块使用(即显示普通图像型的 单色图片功能),又含有 JLX-GB2312-1602 字库 IC,可以从字库 IC 中读出内置的字库的点阵数据写入到 LCD 驱动 IC 中,以达到显示汉字的目的。

此字库 IC 存储内容如下表所述:

分类	字库内容	编码体系(字符集)	字符数
	11X12 点 GB2312 标准点阵字库	GB2312	6763+376
汉字及字符	15X16 点 GB2312 标准点阵字库	GB2312	6763+376
汉于及于南	6X12 点国标扩展字符	GB2312	126
	8X16 点国标扩展字符	GB2312	126
	5X7 点 ASCII 字符	ASCII	96
	7X8 点 ASCII 字符	ASCII	96
ASCII 字符	6X12 点 ASCII 字符	ASCII	96
ASCI1 - 14	8X16 点 ASCII 字符	ASCII	96
	12 点阵不等宽 ASCII 方头(Arial)字符	ASCII	96
	16 点阵不等宽 ASCII 方头(Arial)字符	ASCII	96



2. 字型样张:

11X12 点 GB2312 汉字

啊阿埃挨哎唉哀皑瘟蔼矮艾碍爱隘鞍 氨安俺按暗岸胺案肮昂盎凹敖熬翱袄 傲奥懊澳芭捌扒叭吧笆八疤巴拔跋靶 把耙坝霸罢爸白柏百摆佰败拜稗斑班 搬扳般颁板版扮拌伴瓣半办绊邦帮梆 榜勝绑棒磅蚌镑傍谤苞胞包褒剥薄雹 保堡饱宝抱报暴豹鲍爆杯碑悲卑北辈 背贝钡倍狈备惫焙被奔苯本笨崩绷甭

## 5x7 点 ASCII 字符

!"#¥%&'()\*+,-./0123456789: =>?@ABCDEFGHIJKLMNOPQRSTUV YZ[\]^ `abcdefghijklmnopqr

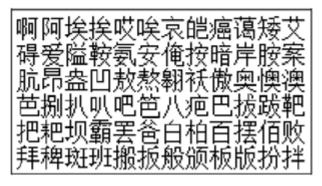
## 6x12 点 ASCII 字符

!"#¥%&'()\*+,-./0123456789:; =>?@ABCDEFGHIJKLMNOPQRSTUVW YZ[\]^ `abcdefghijklmnopqrs uvwxyz{|}<sup>-</sup>āáāàēéěèīíiìōóŏòū

12 点阵不等宽 ASCII 方头

!"#\$%&'()\*+ ,-./0123456789:;<=>?@ABC DEFGHIJKLMNOPQRSTUVWXYZ[\]^\_` abcdef9 hikImnoP9rs tuvwxYz{}~ !"#\$%&'()\*+ ,-./0123456789:;<=>?@ABC

## 15X16 点 GB2312 汉字



## 7x8 点 ASCII 字符

!"#\$%&'()\*+,-./01234 6789:;<=>?@ABCDEFGHIJ LMNOPQRSTUVWXYZ[\]^\_` bcdefghijk1mnopqrstuv 6789::<=>?@ABCDEFGHIJ

## 8x16 点 ASCII 字符

!"#¥%&¹()★+,−./012345 6789:,<=>?@ABCDEFGHIJK LMNOPQRSTUVWXYZ[\]^\_\a

16 点阵不等宽 ASCII 方头 !''#\$%&'()\*+,-./0123456789:;<=> DEFGHIJKLMNOPQRSTUVWX abcdefghijklmnoPqrstuvwxyz{

### JLX12896G-946-PC

## 3. 外形尺寸及接口引脚功能

## 3.1 外形图:

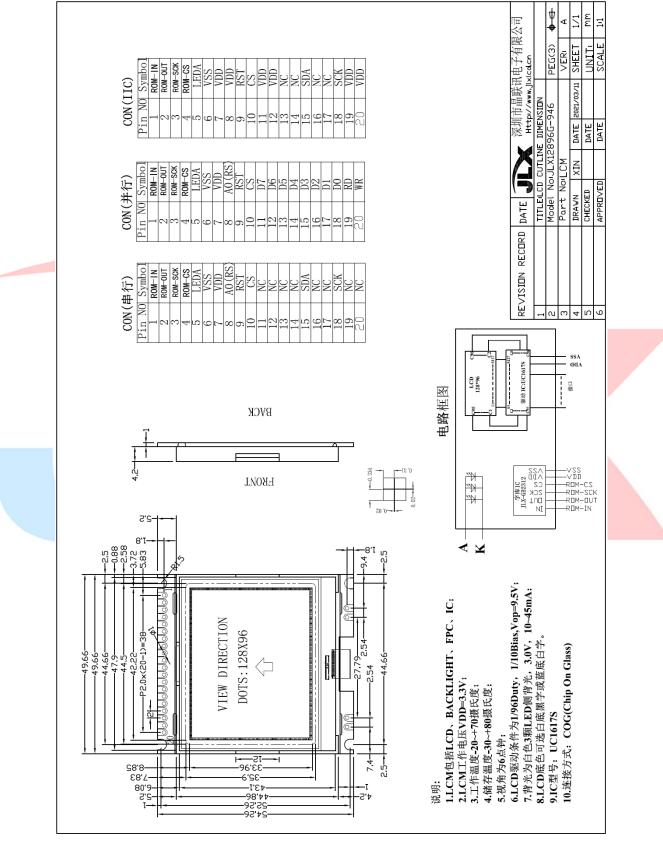


图 1. 外形尺寸

## 3.2 模块的接口引脚功能

### 3.2.1 并行接口引脚功能

引线号	符号	名 称	功 能
1	ROM_IN	字库 IC 接口 SI	串行数据输入 1. 当选择带字库的产品,请参阅:
2	ROM_OUT	字库 IC 接口 <mark>SO</mark>	串行数据输出 (1)字库 IC: JLX-GB2312 说明书
3	ROM_SCK	字库 IC 接口 SCLK	串行时钟输入 (2) JLX12896G-946-PC 的中文字库编程说明书
4	ROM_CS	字库 IC 接口 CS#	片选输入 2. 当不用字库时为空
5	LEDA	背光电源	背光电源正极,同 VDD 电压(5V 或 3.3V)
6	VSS	接地	OV
7	VDD	电路电源	5V,或3.3V 可选
8	RS	寄存器选择信号	H:数据寄存器 0:指令寄存器(IC 资料上所写为"AO")
9	RST	复位	低电平复位,复位完成后,回到高电平,液晶模块开始工作
10	CS	片选	低电平片选
11-18	D7-D0	I/0	数据总线 DB7-DB0, 请注意 11 脚是高位 D7, 18 脚是低位 D0
19	E (RD)	使能信号(读)	6800 时序:使能信号 (8080 时序时:读)
20	RW (WR)	读/写( <del>写</del> )	6800 时序: H:读数据 0:写数据 (8080 时序时: 写)

#### 表 1: 模块并行接口引脚功能

### 3.2.2 串行接口引脚功能

引线号	符号	名 称	功能
1	ROM-IN	即字库 IC 接口(SI)	串行数据输入 1. 当选择带字库的产品,请参阅:
2	ROM-OUT	即字库 IC 接口(SO)	串行数据输出 (1)字库 IC: JLX-GB2312 说明书
3	ROM-SCK	即字库 IC 接口(SCLK)	串行时钟输入 (2) JLX12896G-946-PC 的中文字库编程说明书
4	ROM-CS	字库 IC 接口(CS#)	片选输入 2. 当不用字库时为空
5	LEDA	背光电源	背光电源正极,同 VDD 电压 (5V 或 3. 3V)
6	VSS	接地	OV
7	VDD	电路电源	5V,或3.3V 可选
8	RS	寄存器选择信号	H:数据寄存器 0:指令寄存器(IC 资料上所写为"CD")
9	RST	复位	低电平复位,复位完成后,回到高电平,液晶模块开始工作
10	CS	片选	低电平片选
11	NC	空	
12	NC	空	
13	NC	空	
14	NC	空	
15	SDA <mark>(D3)</mark>	数据	串行数据
16	NC	空	
17	NC	空	
18	SCK (DO)	时钟	串行时钟
19	空	空	
20	空	空	

#### 表 2:4线 SPI 串行接口引脚功能

**J** 晶联讯电子 液晶模块

块 JLX128

JLX12896G-946-PC

3.2.3 I<sup>2</sup>C 总线时接口引脚功能

引线号	符号	名称		功 能
1	ROM-IN	即字库 IC 接口(SI)	串行数据输入	1. 当选择带字库的产品,请参阅:
2	ROM-OUT	即字库 IC 接口(SO)	串行数据输出	(1)字库 IC: JLX-GB2312 说明书
3	ROM-SCK	即字库 IC 接口	串行时钟输入	(2) JLX12896G-946-PC 的中文字库编程说明书
		(SCLK)		2. 当不用字库时为空
4	ROM-CS	字库 IC 接口(CS#)	片选输入	
5	LEDA	背光电源	背光电源正极,	同 VDD 电压(5V 或 3.3V)
6	VSS	接地	OV	
7	VDD	电路电源	5V,或3.3V可选	
8	RS	寄存器选择信号	接 VDD	
9	NC	空		
10	CS	片选	接 VDD	
11	NC	空		
12	NC	空		
13	NC	空		
14	NC	空		
15	SDA (D3)	数据	串行数据	
16	NC	空		
17	NC	空		
18	SCK (DO)	时钟	串行时钟	
19	NC	空		
20	NC	空		
			表 3: I <sup>2</sup> C 总线	<b>接口引脚功能</b>

#### 4. 工作电路框图:

见图 2, 模块由 LCD 驱动 IC UC11617S、字库 IC、背光组成。

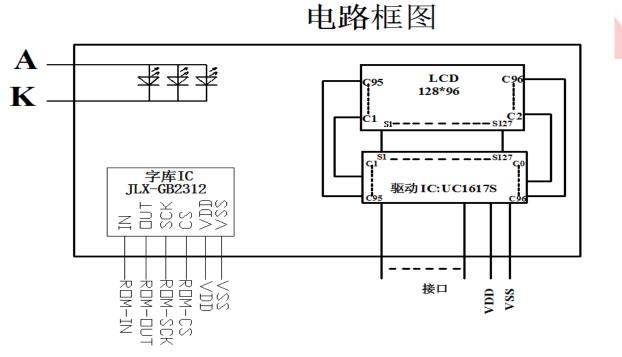


图 2:电路框图

#### 5. 指令:

5.1 字库 IC (JLX-GB2312-16S2W) 指令表

Instruction	Description	Instructi Code(One-		Address Bytes	Dummy Bytes	Data Bytes
READ	Read Data Bytes	0000 0011	03 h	3	-	1 to ∞
FAST_READ	Read Data Bytes at Higher Speed	0000 1011	0B h	3	1	1 to ∞

所有对本芯片的操作只有 2 个, 那就是 Read Data Bytes (READ "一般读取")和 Read Data Bytes at Higher Speed (FAST\_READ "快速读取点阵数据")。

#### Read Data Bytes (一般读取):

Read Data Bytes 需要用指令码来执行每一次操作。READ 指令的时序如下(图):

■首先把片选信号(CS#)变为低,紧跟着的是1个字节的命令字(03h)和3个字节的地址 和通过串行数据输入引脚(SI)移位输入,每一位在串行时钟(SCLK)上升沿被锁存。

■然后该地址的字节数据通过串行数据输出引脚(SO)移位输出,每一位在串行时钟(SCLK) 下降沿被移出。

■读取字节数据后,则把片选信号(CS#)变为高,结束本次操作。 如果片选信号(CS#)继续保持为低,则下一个地址的字节数据继续通过串行数据输出引脚(SO) 移位输出。

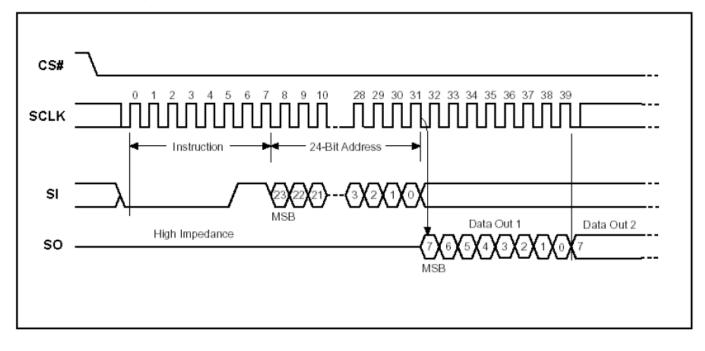


图: Read Data Bytes (READ) Instruction Sequence and Data-out sequence:

#### Read Data Bytes at Higher speed (快速读取):

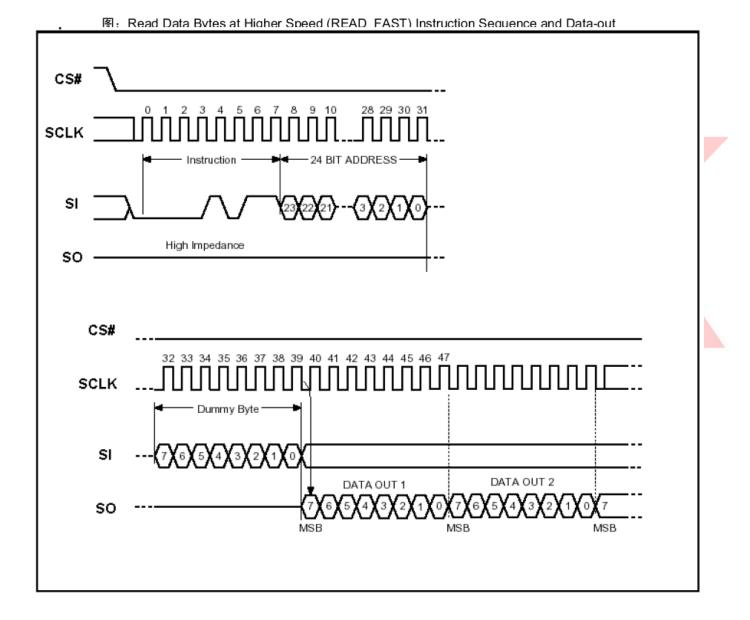
Read Data Bytes at Higher Speed 需要用指令码来执行操作。READ FAST 指令的时序如下(图):

■首先把片选信号(CS#)变为低,紧跟着的是 1 个字节的命令字(0B h)和 3 个字节的地址 以及一个字节 Dummy Byte 通过串行数据输入引脚(SI)移位输入,每一位在串行时钟(SCLK)上 升沿被锁存。

■然后该地址的字节数据通过串行数据输出引脚(SO)移位输出,每一位在串行时钟(SCLK) 下降沿被移出。

■如果片选信号(CS#)继续保持为低,则下一个地址的字节数据继续通过串行数据输出引脚 (SO)移位输出。例:读取一个 15x16 点阵汉字需要 32Byte,则连续 32 个字节读取后结束一个汉 字的点阵数据读取操作。

如果不需要继续读取数据,则把片选信号(CS#)变为高,结束本次操作。



JLX12896G-946-PC

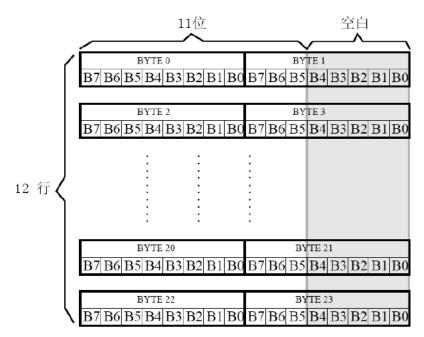
### 6 字库调用方法

### 6.1 汉字点阵排列格式

每个汉字在芯片中是以汉字点阵字模的形式存储的,每个点用一个二进制位表示,存1 的点,当显示 时可以在屏幕上显示亮点,存0的点,则在屏幕上不显示。点阵排列格式为横置横排:即一个字节的高位 表示左面的点,低位表示右面的点,排满一行的点后再排下一行。这样把点阵信息用来直接在显示器上按 上述规则显示,则将出现对应的汉字。

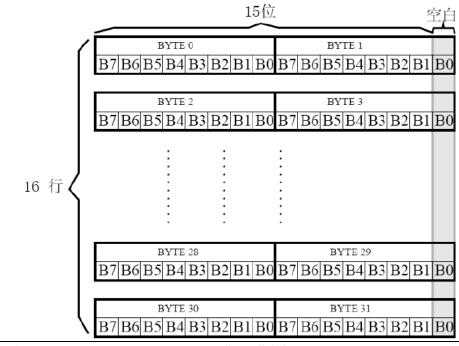
6.1.1 11X12 点汉字排列格式

11X12 点汉字的信息需要24 个字节(BYTE 0 – BYTE 23) 来表示。该11X12 点汉字的点阵数据是 横置横排的,其具体排列结构如下图:



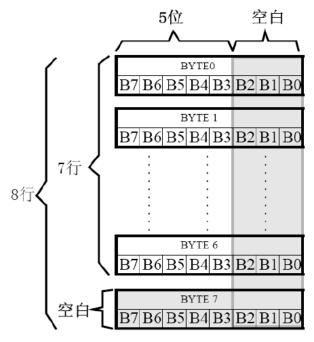
#### 6.1.2 15X16 点汉字排列格式

15X16 点汉字的信息需要32 个字节(BYTE 0 – BYTE 31) 来表示。该15X16 点汉字的点阵数据是 横置横排的,其具体排列结构如下图:



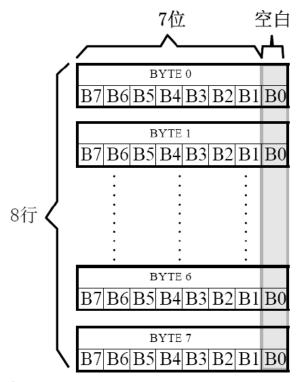
#### 6.1.3 5X7 点ASCII 字符排列格式

5X7 点ASCII 的信息需要8 个字节(BYTE 0 – BYTE7)来表示。该ASCII 点阵数据是横置横排的, 其具体排列结构如下图:



#### 6.1.4 7X8 点ASCII 字符排列格式

7X8 点ASCII 的信息需要8 个字节(BYTE 0 – BYTE7)来表示。该ASCII 点阵数据是横置横排的, 其具体排列结构如下图:



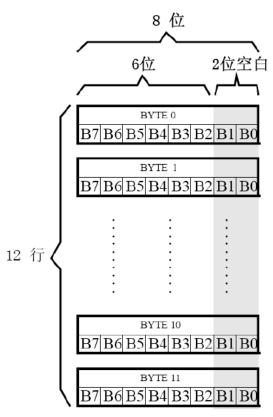
#### 6.1.5 6X12 点字符排列格式

适用于此种排列格式的字体有:

6X12 点ASCII 字符

#### 6X12 点国标扩展字符

6X12 点ASCII 的信息需要12 个字节(BYTE 0 – BYTE11)来表示。该ASCII 点阵数据是横置横排的,其具体排列结构如下图:



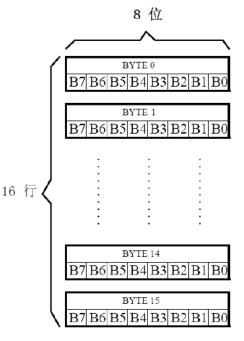
#### 6.1.6 8X16 点字符排列格式

适用于此种排列格式的字体有:

8X16 点ASCII 字符

8X16 点国标扩展字符

8X16 点字符信息需要16 个字节(BYTE 0 – BYTE15)来表示。该点阵数据是横置横排的,其具体排列 结构如下图:



6.1.7 12 点阵不等宽ASCII 方头(Arial)字符排列格式

12 点阵不等宽字符的信息需要26 个字节(BYTE 0 – BYTE25)来表示。

由于字符是不等宽的,因此在存储格式中BYTE0~BYTE1存放点阵宽度数据,BYTE2-25存放横置横排点阵数据。

不等宽字符的点阵存储宽度是以BYTE 为单位取整的,根据不同字符宽度会出现相应的空白区。根据

JLX12896G-946-PC

6.1.4 8X16 点字符排列格式

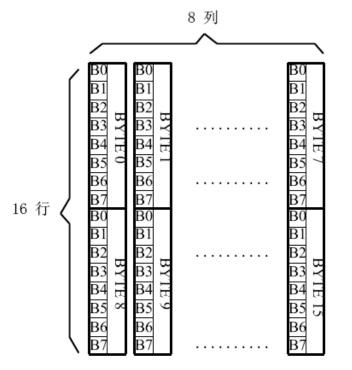
适用于此种排列格式的字体有:

8X16 点 ASCII 字符

8X16 点 ASCII 粗体字符

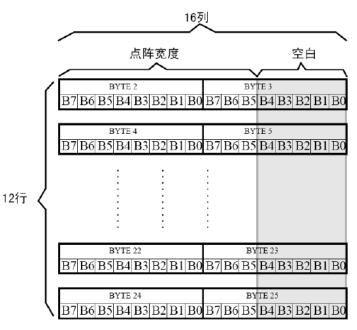
8X16 点国标扩展字符

8X16 点字符信息需要 16 个字节(BYTE 0 - BYTE15)来表示。该点阵数据是竖置横排的,其具体排列 结构如下图:





BYTE0~ BYTE1 所存放点阵的实际宽度数据,可以对还原下一个字的显示或排版留作参考。

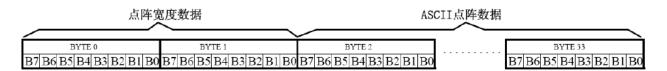


6.1.8 16 点阵不等宽ASCII 方头(Arial)字符排列格式

16 点阵不等宽字符的信息需要34 个字节(BYTE 0 – BYTE33)来表示。

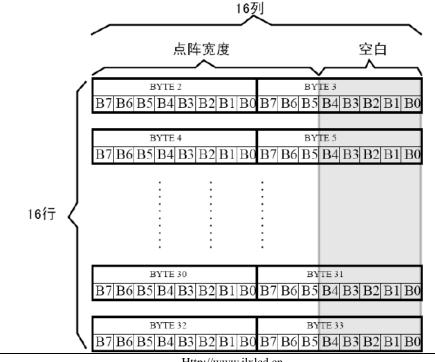
■ 存储格式

由于字符是不等宽的,因此在存储格式中BYTE0~BYTE1存放点阵宽度数据,BYTE2-33存放横置 横排点阵数据。具体格式见下图:



■ 存储结构

不等宽字符的点阵存储宽度是以BYTE 为单位取整的,根据不同字符宽度会出现相应的空白区。根据 BYTE0~ BYTE1 所存放点阵的实际宽度数据,可以对还原下一个字的显示或排版留作参考。



例如: ASCII 方头字符B

0-33BYTE 的点阵数据是: 00 0C 00 00 00 00 00 00 7F 80 7F C0 60 C0 60 C0 60 C0 7F 80 7F C0 60 E0 60 60 60 60 60 7F C0 7F 80 00 00

其中:

BYTE0~ BYTE1: 00 0C 为ASCII 方头字符B 的点阵宽度数据,即:12 位宽度。字符后 面有4 位空白区,可以在排版下一个字时考虑到这一点,将下一个字的起始位置前移。

BYTE2-33: 00 00 00 00 00 00 7F 80 7F C0 60 C0 60 C0 60 C0 7F 80 7F C0 60 E0 60 60 60 60 7F C0 7F 80 00 00 为ASCII 方头字符B 的点阵数据。

## 6.2 汉字点阵字库地址表

	字库内容	编码体系	码位范围	字符数	起始 地址	结束 地址	参考 算法
1	15X16 点 GB2312 标准点阵字库	GB2312	A1A1-F7FE	6763+376	00000	3B7BF	6.3.1.2
2	GB2312 到 Unicode 内码转换表				2F00	66BF	6.4
3	7X8 点 ASCII 字符	ASCII	20~7F	96	66C0	69BF	6.3.2.2
4	8X16 点国标扩展字符	GB2312	AAA1-ABC0	126	3B7D0	3BFBF	6.3.1.4
5	8X16 点 ASCII 字符	ASCII	20~7F	96	3B7C0	3BFBF	6.3.2.4
6	5X7 点 ASCII 字符	ASCII	20~7F	96	3BFC0	3C2BF	6.3.2.1
7	16 点阵不等宽 ASCII 方头(Arial) 字符	ASCII	20~7F	96	3C2C0	3CF7F	6.3.2.6
8	11X12 点 GB2312 标准点阵字库	GB2312	A1A1-F7FE	6763+376	3CF80	66D3F	6.3.1.3
9	6X12 点国标扩展字符	GB2312	AAA1-ABC0	126	66D4C	6733F	6.3.1.3
10	6X12 点 ASCII 字符	ASCI	20~7F	96	66D40	6733F	6.3.2.3
11	12 点阵不等宽 ASCII 方头 (Arial) 字符	ASCI	20~7F	96	67340	67CFF	6.3.2.5
12	保留区				67D00	67D6F	
13	Unicode 到 GB2312 内码转换表				67D70	7278F	6.5
14	GT 快捷拼音输入法码表				72790	7FA33	
15	保留区				7FA33	7FFFF	

▶ 晶联讯电子	液晶模块	JLX12896G-946-PC	更新日期: 2021-03-23
6.3 字符在芯片中的	地址计算方法		
		将点阵在芯片中的地址,然后就 <b>⋷</b>	可从该地址连续读出
点阵信息用于显示。			
6.3.1 汉字字符的地址计	-算		
6.3.1.1 11X12 点GB2312	标准点阵字库		
参数说明:			
GBCode表示汉字内码。			
MSB 表示汉字内码GBCod	e 的高8bits。		
LSB 表示汉字内码GBCode	≥ 的低8bits。		
Address 表示汉字或ASCII	字符点阵在芯片中的	]字节地址。	
BaseAdd: 说明点阵数据在	字库芯片中的起始地	也址。	
计算方法:			
BaseAdd=0x3cf80;			
if(MSB >=0xA1 && MSB <=	= 0Xa3 && LSB >=0	xA1)	
Address =( (MSB - 0xA1) *	94 + (LSB - 0xA1))	*24+ BaseAdd;	
else if(MSB == 0Xa9 && LS	SB >=0xA1)		
Address =( (282 + (LSB - 0	xA1))*24+ BaseAdd	1;	
else if(MSB >=0xB0 && MS	3B <= 0xF7 && LSB	s>=0xA1)	
Address = ((MSB - 0xB0) *	94 + (LSB - 0xA1)+	· 376)*24+ BaseAdd;	
6.3.1.2 15X16 点GB2312	标准点阵字库		
参数说明:			
GBCode表示汉字内码。			
MSB 表示汉字内码GBCod	e 的高8bits。		
LSB 表示汉字内码GBCode	)的低8bits。		
Address 表示汉字或ASCII	字符点阵在芯片中的	]字节地址。	
BaseAdd: 说明点阵数据在	字库芯片中的起始地	也址。	
计算方法:			
BaseAdd=0;			
if(MSB == 0xA9 && LSB >=	=0xA1)		
Address =( (282 + (LSB - 0	xA1))*32+ BaseAdo	ł;	
else if(MSB >=0xA1 && MS	3B <= 0xA3 && LSB	3>=0xA1)	
Address =( (MSB - 0xA1) *	94 + (LSB - 0xA1))	*32+ BaseAdd;	
else if(MSB >=0xB0 && MS	3B <= 0xF7 && LSB	s>=0xA1)	
Address = ((MSB - 0xB0) *	94 + (LSB - 0xA1)+	• 846)*32+ BaseAdd;	
6.3.1.3 6X12 点国标扩展字	·符		
说明:			
BaseAdd: 说明本套字库在	字库芯片中的起始与	字节地址。	
FontCode:表示字符内码	(16bits)		
ByteAddress:表示字符点	车在芯片中的字节地	址。	
计算方法:			

BaseAdd=0x66d4c if (FontCode>= 0xAAA1) and (FontCode<=0xAAFE ) then ByteAddress = (FontCode-0xAAA1) \* 12+BaseAdd Else if(FontCode>= 0xABA1) and (FontCode<=0xABC0 ) then ByteAddress = (FontCode-0xABA1 + 95) \* 12+BaseAdd 6.3.1.4 8X16 点国标扩展字符 说明: BaseAdd: 说明本套字库在字库芯片中的起始字节地址。 FontCode: 表示字符内码(16bits) ByteAddress: 表示字符点阵在芯片中的字节地址。 计算方法: BaseAdd=0x3b7d0 if (FontCode>= 0xAAA1) and (FontCode<=0xAAFE ) then ByteAddress = (FontCode-0xAAA1) \* 16+BaseAdd Else if(FontCode>= 0xABA1) and (FontCode<=0xABC0 ) then ByteAddress = (FontCode-0xABA1 + 95) \* 16+BaseAdd 6.3.2 ASCII 字符的地址计算 6.3.2.1 5X7 点ASCII 字符 参数说明: ASCIICode: 表示 ASCII 码 (8bits) BaseAdd: 说明该套字库在芯片中的起始地址。 Address: ASCII 字符点阵在芯片中的字节地址。 计算方法: BaseAdd=0x3bfc0 if (ASCIICode >= 0x20) and (ASCIICode <= 0x7E) then Address = (ASCIICode -0x20) \* 8+BaseAdd 6.3.2.2 7X8 点ASCII 字符 参数说明: ASCIICode: 表示 ASCII 码 (8bits) BaseAdd: 说明该套字库在芯片中的起始地址。 Address: ASCII 字符点阵在芯片中的字节地址。 计算方法: BaseAdd=0x66c0 if (ASCIICode >= 0x20) and (ASCIICode <= 0x7E) then Address = (ASCIICode -0x20) \* 8+BaseAdd 6.3.2.3 6X12 点 ASCII 字符 说明: ASCIICode: 表示 ASCII 码 (8bits) BaseAdd: 说明该套字库在芯片中的起始地址。 Address: ASCII 字符点阵在芯片中的字节地址。 计算方法: BaseAdd=0x66d40



更新日期: 2021-03-23

```
if (ASCIICode >= 0x20) and (ASCIICode <= 0x7E) then
Address = (ASCIICode -0x20) * 12+BaseAdd
6.3.2.4 8X16 点 ASCII 字符
说明:
ASCIICode: 表示 ASCII 码 (8bits)
BaseAdd: 说明该套字库在芯片中的起始地址。
Address: ASCII 字符点阵在芯片中的字节地址。
计算方法:
BaseAdd=0x3b7c0
if (ASCIICode >= 0x20) and (ASCIICode <= 0x7E) then
Address = (ASCIICode -0x20) * 16+BaseAdd
6.3.2.5 12 点阵不等宽ASCII 方头(Arial)字符
说明:
ASCIICode: 表示 ASCII 码(8bits)
BaseAdd: 说明该套字库在芯片中的起始地址。
Address: ASCII 字符点阵在芯片中的字节地址。
计算方法:
BaseAdd=0x67340
if (ASCIICode >= 0x20) and (ASCIICode <= 0x7E) then
Address = (ASCIICode -0x20) * 26 + BaseAdd
6.3.2.6 16 点阵不等宽ASCII 方头(Arial)字符
说明:
ASCIICode: 表示 ASCII 码 (8bits)
BaseAdd: 说明该套字库在芯片中的起始地址。
Address: ASCII 字符点阵在芯片中的字节地址。
计算方法:
BaseAdd=0x3c2c0
if (ASCIICode >= 0x20) and (ASCIICode <= 0x7E) then
Address = (ASCIICode -0x20) * 34 + BaseAdd
```

## 6.4 附录

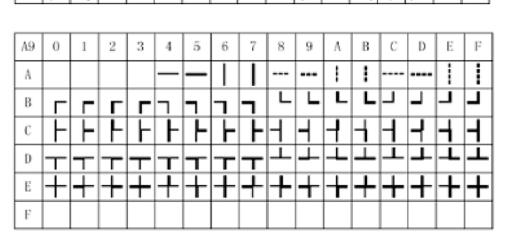
## 6.4.1 GB2312 1区(376字符)

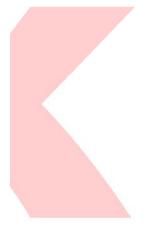
GB2312 标准点阵字符1 区对应码位的A1A1~A9EF 共计376 个字符; GB2312 1 🗵

AL	0	1	2	3	4	5	6	7	8	9	Α	В	С	D	Е	F
A				0	•	-	~		"	ヤ	—	~		•••	٢	'
В	"	"	(	)	<	>	$\langle$	$\gg$	Γ	L	ſ	J	Ι	]	K	1
С	Ŧ	$\times$	÷	:	$\wedge$	$\vee$	Σ	Π	U	$\cap$	e	:::	$\checkmark$	$\bot$	11	Ζ
D	$\sim$	$\odot$	l	∮	=	ŝ	$\approx$	S	œ	≠	≮	≯	$\leq$	$\geq$	$\infty$	$\vdots$
Е	<i>.</i>	€	f	°	1	"	$\mathbb{C}$	\$	¤	Ø	£	‰	§	N₫	☆	★
F	0	•	$\odot$	$\diamond$	٠			Δ	▲	×	→	-	1	¥	=	

A2	0	1	2	3	4	5	6	7	8	9	A	В	С	D	Е	F
A																
В			2.													
С	16.	17.	18.	19.	20.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
D	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	1	0	3	4	6	6	0
Е	8	9	◍	€		Θ	$(\exists)$	$(\Xi)$	<b>(23</b> )	(Ħ)	$(\exists)$	( <del>L</del> )	(Y)	(九)	(+)	
F		Ι	II	III	IV	V	VI	VII	VI	IX	Х	XI	XI			

Λ3	0	1	2	3	4	5	6	7	8	9	Α	В	C	D	Е	F
A		ļ	"	#	¥	%	&	۲	(	)	$\star$	+	,	-		
в	0	1	2	3	4	5	6	7	8	9	:	;	$^{>}$		$\geq$	?
C	a	А	В	С	D	Е	F	G	Η	Ι	J	К	L	М	Ν	0
D	Ρ	Q	R	S	Т	U	V	W	Х	Υ	Ζ	[	/	]	^	
Е	`	а	b	С	d	е	f	g	h	i	j	k	ι	m	n	0
F	р	q	r	s	t	u	V	w	×	У	z	{		}	_	



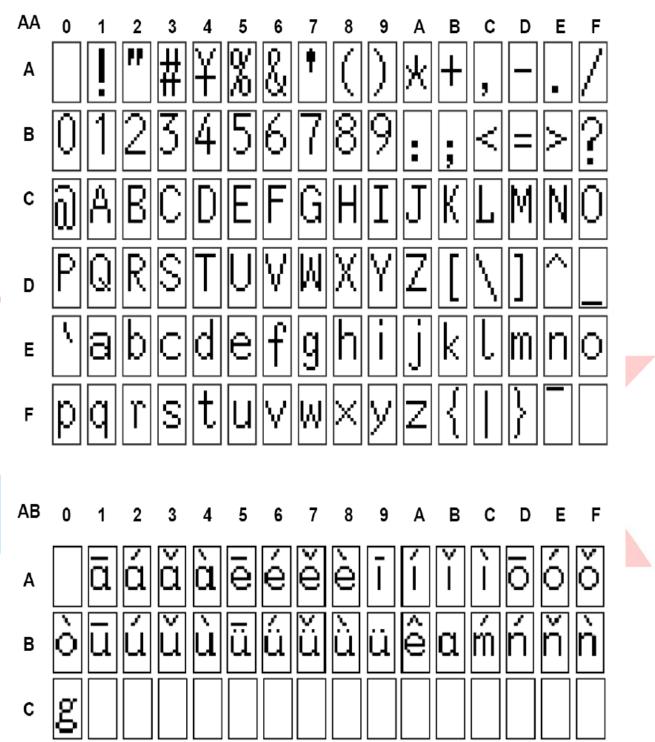


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JLX12896G-946-PC

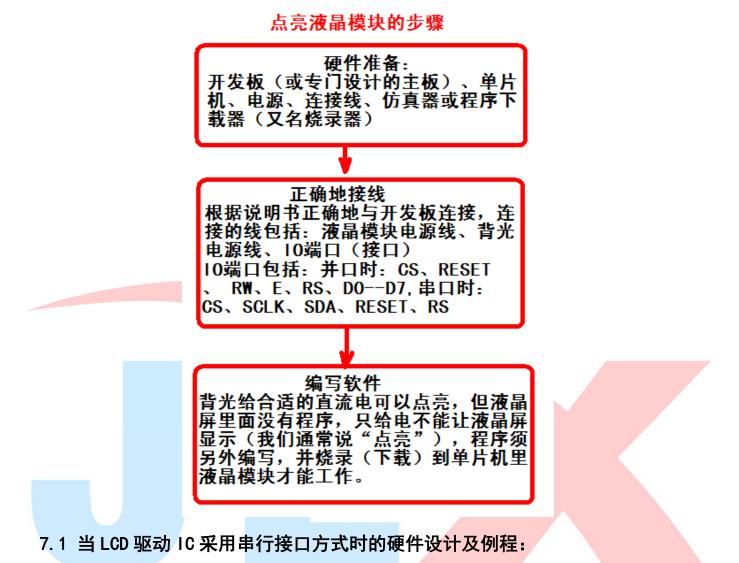
## 6.4.2 8×16点国标扩展字符

内码组成为AAA1~ABC0 共计126 个字符



### 7. 硬件设计及例程:

用户所编的显示程序,开始必须进行初始化,否则模块无法正常显示,过程请参考程序



7.1.1 硬件接口:下图为并行方式的硬件接口:

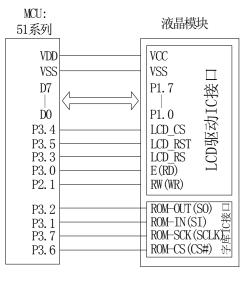


图 1: 并行接口

7.1.2 例程: 以下为串行方式显示汉字及 ASCII 字符的例程:

//液晶模块: JLX12896G-946-PC-P //驱动 IC:UC1617S。4 灰阶(也叫灰度级) 驱动 IC //点阵:128x96 //说明:每个点阵是有 4 灰阶的(2 的平方=4),所以每个点阵是由 2 比特来代表的。 //为了应用一般的汉字库及普通的单色无灰阶,所以增设了: "write\_mono\_data(uchar mono\_data)"这个函数 //如果要显示4灰阶的图像,可以通过相关4灰阶的取模软件来取数据。

#include <STC15F2K60S2.H>

#define uchar unsigned char #define uint unsigned int #define ulong unsigned long int

//===== =并口=== ==//

<pre>sbit cs1=P3^4;</pre>	/*3.4 接口定义*/
sbit RST=P3^5; /*3	.3接口定义*/
<pre>sbit rs=P3^3;</pre>	/*接口定义*/
<pre>sbit rd=P3^0;</pre>	/*接口定义*/
<pre>sbit wr=P2^1;</pre>	/*接口定义。另外 P1.0 <sup>~1.7</sup> 对应 DB0 <sup>~</sup> DB7*/
<pre>sbit key=P2^0;</pre>	/*按键接口, P2.0 口与 GND 之间接一个按键*/

sbit Rom\_IN=P3<sup>1</sup>; /\*字库 IC 接口定义:Rom\_IN 就是字库 IC 的 SI\*/ sbit Rom\_OUT=P3<sup>2</sup>; /\*字库 IC 接口定义:Rom\_OUT 就是字库 IC 的 SO\*/ sbit Rom\_SCK=P3<sup>7</sup>; /\*字库 IC 接口定义:Rom\_SCK 就是字库 IC 的 SCK\*/ sbit Rom\_CS=P3<sup>6</sup>; /\*字库 IC 接口定义 Rom\_CS 就是字库 IC 的 CS#\*/

```
uchar code BMP128128_4GS_1[];
uchar code BMP128128_4GS_2[];
uchar code BMP128128_4GS_3[];
```

uchar code jiong1[]={//横向取模

/\*--- 文字: 囧 ---\*/

/\*-- 宋体 12; 此字体下对应的点阵为: 宽 x 高=16x16 --\*/ 0x00, 0x00, 0x7F, 0xFC, 0x44, 0x84, 0x46, 0x44, 0x44, 0x24, 0x48, 0x34, 0x50, 0x14, 0x6F, 0xE4, 0x48, 0x24, 0x7F, 0xFC, 0x00, 0x00, };

uchar code lei1[]={//横向取模

/\*-- 文字: 畾 --\*/

/\*-- 宋体 12; 此字体下对应的点阵为:宽 x 高=16x16 --\*/

0x1F, 0xF0, 0x11, 0x10, 0x1F, 0xF0, 0x11, 0x10, 0x11, 0x10, 0x1F, 0xF0, 0x00, 0x00, 0xFE, 0xFE, 0x92, 0x92, 0x92, 0x92, 0xFE, 0xFE, 0x9E, 0x92, 0x92, 0x92, 0xFE, 0xFE, 0xFE, 0x82, 0x82, 0x00, 0x00, };

```
//延时
void delay(int n ms)
{
```

```
int i, j;
 for(i=0;i<n_ms;i++)</pre>
     for(j=0;j<110;j++);</pre>
}
void delay_us(int i)
{
 int j,k;
for(j=0;j<i;j++)</pre>
 for(k=0;k<10;k++);</pre>
}
//等待一个按键
void waitkey()
{
 repeat:
     if (key==1) goto repeat;
 else;
     delay(3000);
}
//=====6800 时序==
//===========transfer command to LCM=
void transfer_command_lcd(int data1)
{
 cs1=0;
rs=0;
 rd=0;
 wr=0;
P1=data1;
rd=1;
cs1=1;
rd=0;
P1=0;
}
//----transfer data to LCM-
void transfer_data_lcd(int data1)
{
 cs1=0;
rs=1;
rd=0;
wr=0;
P1=data1;
rd=1;
cs1=1;
rd=0;
```

```
▶ 晶联讯电子
```

```
P1=0;
}
/*传送一个字节(8比特)黑白图像的数据*/
void write_mono_data(uchar mono_data)
{
char i, j;
uchar four_gray_data=0; //定义 4 灰度级的数据
for(j=0;j<2;j++)</pre>
{
    four_gray_data=0;
    for(i=0;i<4;i++)</pre>
     {
         four_gray_data>>=2;
                                      //4 灰度级的数据右移 2 位
                                  //单色黑白数据与 0x80 (二进制 10000000)进行"与"运算
         if (mono_data&0x80)
         {
             four_gray_data+=0xc0; //4 灰度级的数据+0xc0(二进制 11000000)
         }
         else;
         mono_data<<=1;</pre>
                                      //单色黑白数据左移一位
    }
    transfer_data_lcd(four_gray_data);
                                      //写进一个 8bits 的数据,驱动了 4 个像素点,因为每个像素点用了 2bits 数据
     }
}
void lcd_address(uchar row, uchar column)
{
                                      //列地址,每个地址管4列
transfer_command_lcd(0x00+column);
transfer_command_lcd(0x70+(row>>4)); //行地址的高3位
transfer_command_lcd(0x60+(row&0x0f));
                                      //行地址的低4位
}
void clear_screen()
{
int i, j;
cs1=0:
for(i=0;i<128;i++)
 {
    lcd_address(i,0);
    for(j=0;j<16;j++)</pre>
     {
```

write\_mono\_data(0x00);

```
}
}
```

```
//电测用的: 全屏显示电测画面
void display_full(uchar datal, uchar data2)
{
    int i, j;
    cs1=0;
    for(i=0;i<64;i++)
    {
        for(j=0;j<16;j++)
            write_mono_data(data1);
        for(j=0;j<16;j++)
            write_mono_data(data2);
}</pre>
```

```
//电测
```

}

```
void display_test()
{
display_full(0xff, 0xff);
waitkey();
display_full(0x55, 0xaa);
waitkey();
display_full(0xaa,0x55);
waitkey();
display_full(0x00,0xff);
waitkey();
display_full(0xff, 0x00);
waitkey();
display_full(0x55,0x55);
waitkey();
display_full(0xaa,0xaa);
waitkey();
}
//显示4灰度级(四灰阶,四辉度)的128x128点阵的图片
void display_4GS_128128(uchar *dp)
{
uint i, j;
```



for(i=0;i<128;i++)</pre>

lcd\_address(i,0);

cs1=0;

{

```
for(j=0;j<32;j++)
     {
         transfer_data_lcd(*dp);
          dp++;
     }
}
cs1=1;
}
//显示单色的 128x128 的图片
void display_graphic_128x128(uchar *dp)
{
int i, j;
cs1=0;
for(i=0;i<128;i++)</pre>
{
     lcd_address(i,0);
     for(j=0;j<16;j++)</pre>
     {
         write_mono_data(*dp);
          dp++;
     }
}
}
//显示 16x16 点阵的单色图片,也用作 16x16 点阵的汉字的显示
void display_graphic_16x16(uchar row, uchar column, uchar *dp)
{
int i, j;
cs1=0;
for(i=0;i<16;i++)</pre>
{
     lcd_address(row+i, column);
     for(j=0;j<2;j++)
     {
         write_mono_data(*dp);
         dp++;
     }
}
}
//显示 8x16 点阵的单色图片,也用作 8x16 点阵的 ASCII 码字符(英文、数字、常用字符)
display_graphic_8x16(y, x, uchar *dp)
{
int i, j, row;
cs1=0;
```

```
for(i=0;i<16;i++)
{
                                             //列地址,每个地址管4列
     transfer_command_lcd(0x00+x);
     row=y+i;
     transfer_command_lcd(0x70+(row>>4)); //行地址的高3位
     transfer_command_lcd(0x60+(row&0x0f));
                                             //行地址的低4位
     for(j=0; j<1; j++)</pre>
     {
         write_mono_data(*dp);
         dp++;
     }
}
}
void LCD_INITIAL()
{
RST=0:
delay(50);
RST=1;
delay(200);
transfer_command_lcd(0xE2);//system reset
delay(100);
transfer_command_lcd(0x27);
transfer_command_lcd(0x2b);
transfer_command_lcd(0x2f); //set pump control
transfer_command_lcd(0xea); //set bias=1/10
                                                     0x81 不可调
transfer_command_lcd(0x81); //set
transfer_command_lcd(0x68); //set PM=12, vop=12. 8v, 4c 设置对比度 //0x68
transfer_command_lcd(0xa9); //set linerate mux, a2
transfer_command_lcd(0xc8);
transfer_command_lcd(0x0b);
transfer_command_lcd(0x89);
transfer_command_lcd(0xc4); //MY=1, MX=0:从左到右,再从上到下。镜像
transfer_command_lcd(0xf1); //f1
transfer_command_lcd(0x5f);
transfer_command_lcd(0xd3); //gray shade set 设置灰度级
transfer_command_lcd(0xd7); //gray shade set 设置灰度级
transfer_command_lcd(0xAf); //set display enable //打开显示
}
/****送指令到晶联讯字库 IC***/
void send_command_to_ROM( uchar datu )
{
     uchar i;
     for(i=0;i<8;i++ )</pre>
```

{	
	if(datu&0x80)
	$Rom_{IN} = 1;$
	else
	$Rom_IN = 0;$
	datu = datu<<1;
	Rom_SCK=0;
	Rom_SCK=1;
}	
}	
/***	*从晶联讯字库 IC 中取汉字或字符数据(1 个字节)***/
	ic uchar get_data_from_ROM( )
{	
	uchar i;
	uchar ret_data=0;
	Rom_SCK=1;
	for(i=0;i<8;i++)
{	
	Rom_OUT=1;
	Rom_SCK=0;
	ret_data=ret_data<<1;
	if(Rom_OUT)
	ret_data=ret_data+1;
	else
	ret_data=ret_data+0;
	Rom_SCK=1;
}	
	return(ret_data);
}	

/\*从相关地址(addrHigh: 地址高字节,addrMid: 地址中字节,addrLow: 地址低字节)中连续读出 DataLen 个字节的数据到 pBuff 的地址\*/

```
/*连续读取*/
```

 $\label{eq:void_get_n_bytes_data_from_ROM(uchar addrHigh, uchar addrMid, uchar addrLow, uchar *pBuff, uchar DataLen )$ 

{

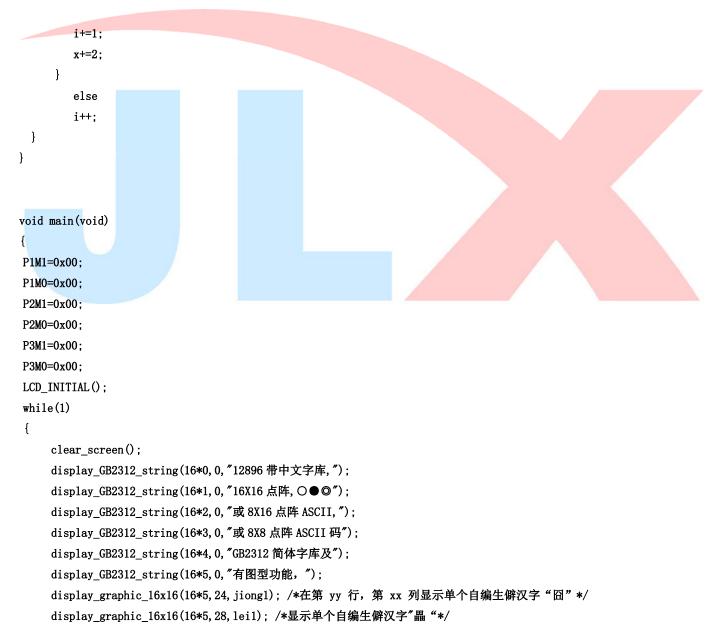
```
uchar i;
```

```
Rom_CS = 0;
// LCD_CS=1;
Rom_SCK=0;
send_command_to_ROM(0x03);
send_command_to_ROM(addrHigh);
send_command_to_ROM(addrMid);
send_command_to_ROM(addrLow);
for(i = 0; i < DataLen; i++ )</pre>
```

```
*(pBuff+i) =get_data_from_ROM();
    Rom_CS = 1;
}
ulong fontaddr=0;
void display_GB2312_string(uchar y, uchar x, uchar *text)
{
    uchar i=0;
    uchar addrHigh, addrMid, addrLow ;
    uchar fontbuf[32];
    while((text[i]>0x00))
  {
    Rom_SCK=0;
    if(((text[i]>=0xb0) &&(text[i]<=0xf7))&&(text[i+1]>=0xa1))
   ł
 /*国标简体(GB2312)汉字在晶联讯字库 IC 中的地址由以下公式来计算:*/
 /*Address = ((MSB - 0xB0) * 94 + (LSB - 0xA1) + 846) *32 + BaseAdd; BaseAdd=0*/
 /*由于担心 8 位单片机有乘法溢出问题,所以分三部取地址*/
    fontaddr = (text[i] - 0xb0)*94;
    fontaddr += (text[i+1]-0xa1)+846:
    fontaddr = (ulong) (fontaddr*32);
    addrHigh = (fontaddr&0xff0000)>>16; /*地址的高 8 位,共 24 位*/
    addrMid = (fontaddr&0xff00)>>8; /*地址的中 8 位,共 24 位*/
    addrLow = fontaddr&0xff; /*地址的低 8 位,共 24 位*/
    get_n_bytes_data_from_ROM(addrHigh, addrMid, addrLow, fontbuf, 32);/*取 32 个字节的数据,存到"fontbuf[32]"*/
    display_graphic_16x16(y, x, fontbuf); /*显示汉字到 LCD 上, y 为页地址, x 为列地址, fontbuf[]为数据*/
    i+=2;
    x+=4:
  }
    else if(((text[i]>=0xa1) &&(text[i]<=0xa3))&&(text[i+1]>=0xa1))
   ł
     /*国标简体(GB2312)15x16 点的全角标点符号(例如",""。")在晶联讯字库 IC 中的地址由以下公式来计算:*/
     /*Address = ((MSB - 0xa1) * 94 + (LSB - 0xA1))*32+ BaseAdd;BaseAdd=0*/
     /*由于担心 8 位单片机有乘法溢出问题,所以分三部取地址*/
     fontaddr = (text[i] - 0xa1)*94;
     fontaddr += (text[i+1]-0xa1);
     fontaddr = (ulong) (fontaddr*32);
     addrHigh = (fontaddr&0xff0000)>>16; /*地址的高 8 位,共 24 位*/
     addrMid = (fontaddr&0xff00)>>8; /*地址的中 8 位,共 24 位*/
     addrLow = fontaddr&0xff; /*地址的低 8 位,共 24 位*/
     get_n_bytes_data_from_ROM(addrHigh, addrMid, addrLow, fontbuf, 32);/*取 32 个字节的数据,存到"fontbuf[32]"*/
     display_graphic_16x16(y, x, fontbuf); /*显示汉字到 LCD 上, y 为页地址, x 为列地址, fontbuf[]为数据*/
```

```
i+=2:
x+=4:
}
 else if((text[i]>=0x20) &&(text[i]<=0x7e))
   { /*ASCII 码字符的 8*16 点阵在字库 IC 中的地址*/
     unsigned char fontbuf[16];
     fontaddr = (text[i] - 0x20);
     fontaddr = (unsigned long) (fontaddr*16);
     fontaddr = (unsigned long) (fontaddr+0x3b7c0);
     addrHigh = (fontaddr&0xff0000)>>16;
     addrMid = (fontaddr&0xff00)>>8;
     addrLow = fontaddr&0xff;
```

get\_n\_bytes\_data\_from\_ROM(addrHigh, addrMid, addrLow, fontbuf, 16);/\*取 16 个字节的数据, 存到"fontbuf[32]"\*/



display\_graphic\_8x16(y, x, fontbuf);/\*显示 8x16 的 ASCII 字到 LCD 上, y 为页地址, x 为列地址, fontbuf[]为数据\*/

**J** 晶联讯电子

<pre>waitkey();</pre>
clear_screen();
display_GB2312_string(16*0,0,"啊阿埃挨哎唉哀皑");
display_GB2312_string(16*1,0,"癌蔼矮艾碍爱隘鞍");
display_GB2312_string(16*2,0,"氨安俺按暗岸胺案");
display_GB2312_string(16*3,0,"肮昂盎凹敖熬翶袄");
display_GB2312_string(16*4,0,″鬟蠶麽麾縻麂廮麠″);
display_GB2312_string(16*5,0,"麋麒鏖麝麟黛黜黝");
waitkey();
<pre>clear_screen();</pre>
display_4GS_128128(BMP128128_4GS_1);
waitkey();
display_4GS_128128(BMP128128_4GS_2);
waitkey();
display_4GS_128128(BMP128128_4GS_3);
waitkey();
display_full(0xff,0xff);
<pre>waitkey();</pre>
display_full(0x55,0xaa);
<pre>waitkey();</pre>
display_full(0xaa, 0x55);
<pre>waitkey();</pre>
display_full(0x00, 0xff);
waitkey();
display_full(0xff,0x00);
waitkey();
display_full(0x55, 0x55);
waitkey();
display_full(Oxaa, Oxaa);
waitkey();
}
}

uchar code BMP128128\_4GS\_1[]={//横向取模

//用 Image2Lcd. exe 取模软件取模,字节内部要反序.

//四灰度级(四灰阶)的图片文件:128128-动漫 3. BMP

OXAA, OXAA, OXAA, OXAA, OXAA, OXAA, OXAA, OXAA, OXAA, OX56, OX55, OXA9, OXA5, OX55, OX99, OXAA, OX55, 0X55, 0X55, 0X50, 0X05, 0X00, 0X40, 0X55, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, OXAA, OXAA, OXAA, OXAA, OXAA, OXAA, OXAA, OXAA, OX55, OX95, OXA9, OX6A, OXAA, OXAA, OX56, OX55, 0X55, 0X15, 0X54, 0X55, 0X54, 0X01, 0X04, 0X00, 0X00, 0X00, 0X00, 0X00, 0XFC, 0XFF, 0X0F, 0X00, 0XAA, 0XAA, 0XAA, 0XAA, 0XAA, 0XAA, 0XAA, 0X6A, 0X05, 0X00, 0XA4, 0XAA, 0X6A, 0XA5, 0X41, 0X95, 0X46, 0X05, 0X50, 0X55, 0X15, 0X00, 0X01, 0X00, 0X00, 0X00, 0X00, 0X00, 0X3C, 0X00, 0X0F, 0X00, 0XAA, 0XAA, 0XAA, 0XAA, 0XAA, 0XAA, 0XAA, 0X5A, 0X00, 0X54, 0XA4, 0X6A, 0X55, 0XA5, 0X55, 0X55, 0X59, 0X15, 0X54, 0X55, 0X15, 0X40, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0XFC, 0XFF, 0X0F, 0X00, OXAA, OXAA, OXAA, OXAA, OXAA, OXAA, OXAA, OXO6, OX50, OX15, OX40, OX95, OX56, OXA9, OX54, OX69, 0X95, 0X26, 0X44, 0X55, 0X05, 0X15, 0X01, 0X00, 0X00, 0X00, 0X00, 0X00, 0X3C, 0X00, 0X0F, 0X00, 0XAA, 0XAA, 0XAA, 0XAA, 0XAA, 0XAA, 0XAA, 0X41, 0X55, 0X06, 0X54, 0X95, 0X5A, 0X66, 0X55, 0X55, 0X55, 0XA9, 0X11, 0X54, 0X55, 0X45, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0XFC, 0XFF, 0X0F, 0X00, 0XAA, 0XAA, 0XAA, 0XAA, 0XAA, 0XAA, 0XAA, 0X51, 0X55, 0X00, 0XA5, 0XAA, 0XAA, 0X1A, 0X55, 0X56, 0X55, 0X95, 0X16, 0X05, 0X00, 0X15, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X3C, 0X00, 0X0F, 0X00, 0XAA, 0XAA, 0XAA, 0XAA, 0XAA, 0XAA, 0XAA, 0X55, 0X29, 0X40, 0XA9, 0XAA, 0XAA, 0X59, 0XA5, 0XAA, 0X55, 0X55, 0XA9, 0XA5, 0X40, 0X05, 0X00, 0XAA, 0XAA, 0XAA, 0XAA, 0XAA, 0XAA, 0X5A, 0X65, 0X06, 0X50, 0X5A, 0XAA, 0XAA, 0X96, 0XA9, 0XAA, 0X66, 0X55, 0X55, 0X10, 0X50, 0X05, 0X00, 0X00, 0X00, 0X00, 0X00, 0XF0, 0XFF, 0XF3, 0XFF, 0X03, 0XAA, 0XAA, 0XAA, 0XAA, 0XAA, 0XAA, 0X56, 0X96, 0X01, 0X94, 0X95, 0X5A, 0XAA, 0X86, 0XA9, 0XAA, 0XAA, 0X95, 0X56, 0X95, 0X95, 0X55, 0X05, 0X00, 0X00, 0X00, 0X00, 0XF0, 0XC0, 0XF3, 0XC0, 0X03, 0XAA, 0XAA, 0XAA, 0XAA, 0XAA, 0X6A, 0X55, 0X55, 0X00, 0X65, 0X55, 0X99, 0X59, 0X56, 0XAA, 0XAA, 0XAA, 0XAA, 0X6A, 0X15, 0X56, 0X55, 0X01, 0X00, 0X00, 0X00, 0X00, 0XF0, 0XFF, 0XF3, 0XFF, 0X03, 0XAA, 0XAA, 0XAA, 0XAA, 0XAA, 0X1A, 0X55, 0X15, 0X40, 0X59, 0X55, 0X65, 0X55, 0X65, 0XAA, 0XAA, 0XAA, 0XAA, 0X6A, 0X15, 0X64, 0X55, 0X05, 0X00, 0X00, 0X00, 0X00, 0XF0, 0XC0, 0XF3, 0XC0, 0X03, 0XAA, 0XAA, 0XAA, 0XAA, 0XAA, 0X41, 0X95, 0X05, 0X50, 0X55, 0X55, 0X59, 0X56, 0X61, 0X69, 0XAA, 0XA6, 0XAA, 0XAA, 0X55, 0X90, 0X41, 0X15, 0X00, 0X00, 0X00, 0X00, 0XF0, 0XC0, 0XF3, 0XC0, 0X03, 0XAA, 0XAA, 0XAA, 0XAA, 0X6A, 0X54, 0X55, 0X01, 0X54, 0X45, 0X55, 0X96, 0X95, 0X55, 0X69, 0XA9, 0XA5, 0XAA, 0X6A, 0X55, 0X81, 0X15, 0X55, 0X00, 0X00, 0X00, 0X00, 0XF0, 0XFF, 0XF3, 0XFF, 0X03, 0XAA, 0XAA, 0XAA, 0XAA, 0X1A, 0XA5, 0X55, 0X01, 0X54, 0X50, 0X95, 0X95, 0X54, 0X55, 0X69, 0X55, 0X95, 0X55, 0X55, 0X55, 0X05, 0X55, 0X54, 0X00, 0X00, 0X00, 0X00, 0XF0, 0XC0, 0XF3, 0XC0, 0X03, 0XAA, 0XAA, 0XAA, 0XAA, 0X46, 0X69, 0X55, 0X00, 0X14, 0X54, 0XA5, 0X65, 0X65, 0X45, 0X69, 0X56, 0X55, 0X69, 0X55, 0X55, 0X15, 0X55, 0X51, 0X01, 0X00, 0 0XAA, 0XAA, 0XAA, 0XAA, 0X52, 0X6A, 0X56, 0X44, 0X05, 0X55, 0X65, 0X24, 0X65, 0X08, 0X69, 0X56, 0X55, 0X55, 0X55, 0X55, 0X15, 0X54, 0X05, 0X01, 0X00, 0X00, 0X00, 0X00, 0X00, 0X0F, 0X3C, 0X00, 0XAA, 0XAA, 0XAA, 0XAA, 0X94, 0X9A, 0X25, 0X55, 0X05, 0X55, 0X15, 0X55, 0X55, 0X08, 0X69, 0X56, 0X55, 0X55, 0X55, 0X55, 0X55, 0X50, 0X05, 0X05, 0X00, 0X00, 0X00, 0XFC, 0XFF, 0X3F, 0XFC, 0X00, 0XAA, 0XAA, 0XAA, 0X6A, 0X65, 0X5A, 0X59, 0X55, 0X42, 0X55, 0X19, 0X49, 0X59, 0X08, 0X19, 0X56, 0X55, 0X55, 0X55, 0X55, 0X55, 0X01, 0X14, 0X05, 0X00, 0X00, 0X00, 0XF0, 0XF0, 0XF0, 0X3C, 0X00, 0XAA, 0XAA, 0XAA, 0X6A, 0XAA, 0X6A, 0X59, 0X55, 0X55, 0X55, 0X45, 0X49, 0X59, 0X09, 0X19, 0X56, 0X51, 0X54, 0X55, 0X15, 0X55, 0X41, 0X10, 0X14, 0X00, 0X00, 0X00, 0XF0, 0XF0, 0XF0, 0X0F, 0X00, 0XAA, 0XAA, 0XAA, 0X5A, 0XAA, 0X66, 0XA6, 0X95, 0X55, 0X55, 0X49, 0X46, 0X59, 0X09, 0X19, 0X52, 0X51, 0X50, 0X55, 0X55, 0X54, 0X01, 0X44, 0X10, 0X00, 0X00, 0X00, 0XF0, 0XFF, 0XFF, 0XFF, 0X03, 0XAA, 0XAA, 0XAA, 0X9A, 0XAA, 0X66, 0X66, 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#### uchar code BMP128128\_4GS\_2[]={

//用 Image2Lcd. exe 取模软件取模,字节内部要反序. 图片文件"128128-兔子 3-2. BMP" 0X00, 0X00, 0X00, 0X00, 0X40, 0X55, 0X95, 0XFE, 0XFF, 0X5A, 0X05, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X54, 0XA9, 0XAB, 0XAA, 0XBA, 0XEA, 0XFE, 0XFF, 0XFF, 0XFF, 0XFF, 0XFF, 0XFF, 0XFF, 0X2F, 0X00, 0X00, 0XFC, 0XFF, 0X03, 0X54, 0X95, 0XA5, 0XFF, 0XBF, 0X56, 0X01, 0X00, 0X54, 0XA5, 0XAA, 0XAA, 0XEA, 0XFF, 0X00, 0X0C, 0X00, 0X03, 0X54, 0X95, 0XF9, 0XFF, 0XAF, 0X15, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X50, 0X55, 0XAA, 0XAA, 0XAA, 0XFF, 0X01, 0X00, 0XFC, 0XFF, 0X03, 0X54, 0X55, 0XFE, 0XFF, 0X6B, 0X05, 0X00, 0X50, 0XA5, 0XAA, 0XEA, 0XFF, 0XPF, 0X00, 0X0C, 0X00, 0X03, 0X54, 0XA9, 0XFF, 0XFF, 0X5A, 0X05, 0X00, 0X55, 0XAA, 0XEA, 0XFF, 0X00, 0XFC, 0XFF, 0X03, 0X54, 0XE9, 0XFF, 0XFF, 0X5A, 0X01, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X54, 0X95, 0XEA, 0XFF, 0X00, 0X0C, 0X00, 0X03, 0X54, 0XFE, 0XFF, 0XBF, 0X56, 0X00, 0X55, 0XA9, 0XFF, 0X00, 0X00, 0X00, 0X00, 0XA4, 0XFF, 0XFF, 0XAF, 0X56, 0X00, 0X54, 0XA5, 0XFF, 0XF0, 0XFF, 0XF0, 0XFF, 0XE4, 0XFF, 0XAF, 0XAB, 0X15, 0X00, 0X55, 0XFA, 0XFF, 0X30, 0XC0, 0X30, 0XC0, 0XF8, 0XFF, 0XFF, 0X6A, 0X15, 0X00, 0X50, 0X50, 0XFF, 0XF0, 0XFF, 0XF0, 0XFF, 0XFF, 0XFF, 0X6A, 0X15, 0X00, 0X94, 0XFE, 0XFF, 0X30, 0XC0, 0X30, 0XC0, 0XFC, 0XFF, 0XBF, 0X5A, 0X05, 0X00, 0X50, 0XFA, 0XFF, 0X30, 0XC0, 0X30, 0XC0, 0XFC, 0XFF, 0XBF, 0X5A, 0X05, 0X00, 0X40, 0XE5, 0XFF, 0XFF,



0XF0, 0XFF, 0XF0, 0XFF, 0XFC, 0XFF, 0XAF, 0X56, 0X05, 0X00, 0X94, 0XFE, 0XFF, 0X30, 0XC0, 0X30, 0XC0, 0XFC, 0XFF, 0XAF, 0X55, 0X05, 0X00, 0X50, 0XFA, 0XFF, 0X00, 0X00, 0X00, 0X00, 0XFC, 0XFF, 0XAB, 0X55, 0X05, 0X00, 0X40, 0XE9, 0XFF, 0X00, 0X00, 0X03, 0X0C, 0XFC, 0XFF, 0X6B, 0X55, 0X00, 0XA4, 0XFF, 0XFC, 0XFF, 0X0C, 0X3C, 0XFC, 0XFF, 0X6A, 0X55, 0X00, 0X94, 0XFE, 0XFF, 0X30, 0X30, 0X30, 0X0C, 0XFC, 0XFF, 0X6A, 0X55, 0X00, 0X50, 0XFA, 0XFF, 0X30, 0X30, 0X30, 0X03, 0XFC, 0XFF, 0X5A, 0X55, 0X00, 0X40, 0XF9, 0XFF, 0XF0, 0XFF, 0XFF, 0XFF, 0XFC, 0XBF, 0X5A, 0X55, 0X00, 0XA5, 0XFF, 0X30, 0X30, 0XC0, 0X00, 0XFC, 0XBF, 0X5A, 0X15, 0X00, 0X94, 0XFF, 0X30, 0X30, 0XC0, 0X00, 0XFC, 0XBF, 0X56, 0X05, 0X00, 0X50, 0XFA, 0XFF, 0XF0, 0X3F, 0XC0, 0X00, 0XF8, 0XBF, 0X55, 0X05, 0X00, 0X40, 0XE9, 0XFF, 0X30, 0XF0, 0XFF, 0XFF, 0XF8, 0XBF, 0X55, 0X00, 0XA5, 0XFF, 0X30, 0X30, 0XC0, 0X00, 0XF8, 0X6F, 0X15, 0X00, 0X94, 0XFF, 0X30, 0XFC, 0XC0, 0X00, 0XE4, 0X6F, 0X05, 0X00, 0X50, 0XFA, 0XFF, 0XFC, 0X33, 0XC0, 0X00, 0XE4, 0X6F, 0X01, 0X00, 0X40, 0XE9, 0XFF, 0X30, 0X30, 0X30, 0X03, 0XE4, 0X5F, 0X01, 0X00, 0 0X00, 0XA5, 0XFF, 0X00, 0X30, 0X30, 0X0C, 0XE4, 0X5F, 0X00, 0 0X00, 0X95, 0XFE, 0XFF, 0X00, 0X30, 0X0C, 0XF0, 0XE4, 0X5B, 0X00, 0X54, 0XFA, 0XFF, 0X00, 0X30, 0X03, 0X30, 0XE8, 0X5B, 0X15, 0X00, 0X50, 0XF9, 0XFF, 0X30, 0X00, 0X00, 0X00, 0XE8, 0XAA, 0X56, 0X01, 0X00, 0X50, 0XE5, 0XFF, 0XFF, 0XFF, 0XFF, 0XC0, 0XF0, 0XFF, 0X0F, 0XE8, 0XAA, 0X55, 0X15, 0X00, 0X40, 0X95, 0XFF, 0XC0, 0X03, 0X03, 0X0C, 0XA8, 0XAA, 0X56, 0X55, 0X05, 0X00, 0X55, 0XFE, 0XFF, 0XC0, 0X00, 0X03, 0X0C, 0XA8, 0XAA, 0X56, 0X55, 0X55, 0X01, 0X00, 0X55, 0XFA, 0XFF, 0XFF,

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//用 Image2Lcd. exe 取模软件取模,字节内部要反序.

//四灰度级(四灰阶)的图片文件:128128-动漫 1. BMP

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0X00, 0X00, 0X50, 0XFE, 0X6F, 0X40, 0XA9, 0XAA, 0X6A, 0X55, 0X90, 0X6A, 0X55, 0X15, 0XA9, 0X56, 0XF0, 0XFF, 0XFF, 0XFF, 0X94, 0X55, 0X65, 0X95, 0X56, 0X99, 0XAE, 0XFA, 0XFA, 0XFB, 0X2B, 0X00, 0X00, 0X40, 0XF9, 0XFF, 0X2F, 0X80, 0XAA, 0XAA, 0X5A, 0X15, 0X90, 0XAA, 0X55, 0X55, 0XA5, 0X56, 0X00, 0X30, 0X30, 0X00, 0X94, 0X55, 0X69, 0X95, 0X56, 0X99, 0XAA, 0XFF, 0XFF, 0XEB, 0X6F, 0X15, 0X00, 0X55, 0XFE, 0XFF, 0X2F, 0X90, 0X5A, 0XA5, 0X56, 0X01, 0X90, 0XAA, 0X55, 0X55, 0XA5, 0X56, 0X00, 0X30, 0X30, 0X00, 0XA4, 0X55, 0X65, 0X95, 0X56, 0XA5, 0XAA, 0XFF, 0XFB, 0XFF, 0X2F, 0X54, 0X55, 0X55, 0XFE, 0XFF, 0X2F, 0X50, 0X55, 0X55, 0X05, 0X00, 0X50, 0XAA, 0X56, 0X55, 0XA5, 0X56, 0X00, 0X30, 0X30, 0X3C, 0X64, 0X55, 0X65, 0X95, 0X5A, 0X95, 0XAA, 0XFB, 0XFF, 0XAF, 0X1A, 0X50, 0X55, 0X51, 0XF9, 0XFF, 0X2B, 0X54, 0X50, 0X05, 0X40, 0X05, 0X54, 0XAA, 0X5A, 0X55, 0XA5, 0X56, 0X00, 0X3C, 0XF0, 0X03, 0X68, 0X55, 0X65, 0X95, 0X4A, 0XA5, 0XAA, 0XFF, 0XFF, 0X5B, 0X01, 0X01, 0X05, 0X54, 0X95, 0XFE, 0X1B, 0X10, 0X54, 0X40, 0X65, 0X01, 0X54, 0XAA, 0X5A, 0X55, 0XA5, 0X56, 0X00, 0XCC, 0X30, 0X00, 0X58, 0X55, 0X69, 0X95, 0X1A, 0X95, 0XAA, 0XEA, 0X6A, 0X01, 0X00, 0X10, 0X00, 0X55, 0X55, 0XA5, 0X06, 0X00, 0X05, 0XA4, 0X5A, 0X00, 0X54, 0X6A, 0X6A, 0X55, 0XA5, 0X55, 0X00, 0XCC, 0XCC, 0X00, 0X58, 0X55, 0X59, 0X95, 0X5A, 0X95, 0XAA, 0X5A, 0X05, 0X00, 0X00, 0X40, 0X00, 0X50, 0X15, 0X50, 0X01, 0X50, 0X50, 0XAA, 0X15, 0X00, 0X55, 0XAA, 0XAA, 0X55, 0XA5, 0X59, 0X00, 0X03, 0XCC, 0X00, 0X54, 0X55, 0X59, 0X95, 0X5A, 0X95, 0XAA, 0X16, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X55, 0X01, 0X00, 0X14, 0XA4, 0X6A, 0X05, 0X40, 0X55, 0XAA, 0XAA, 0X56, 0XA5, 0X59, 0X00, 0X03, 0X03, 0X03, 0X54, 0X55, 0X59, 0X95, 0X1A, 0X95, 0XAA, 0X16, 0X00, 0X00, 0X00, 0X00, 0X04, 0X00, 0X00, 0X01, 0X40, 0X05, 0XAA, 0X5A, 0X05, 0X50, 0X95, 0XAA, 0XAA, 0X6A, 0XA5, 0X5A, 0XC0, 0XC0, 0X00, 0X0F, 0X54, 0X55, 0X59, 0X95, 0X06, 0X94, 0X9A, 0X16, 0X00, 0X00, 0X00, 0X14, 0X00, 0X00, 0X00, 0X00, 0X40, 0X95, 0XAA, 0X56, 0X45, 0X55, 0X55, 0XAA, 0XAA, 0XAA, 0X56, 0X56, 0X56, 0X55, 0XC0, 0X30, 0X00, 0XFC, 0X54, 0X55, 0X56, 0X95, 0X00, 0X94, 0X9A, 0X06, 0X00, 0X00, 0X00, 0X40, 0X00, 0X00, 0X00, 0X00, 0X94, 0X95, 0XAA, 0X55, 0X50, 0X55, 0X95, 0XAA, 0X6A, 0XAA, 0XAA, 0X56, 0X30, 0X0C, 0X00, 0X30, 0X54, 0X95, 0X56, 0X55, 0X00, 0X54, 0X9A, 0X01, 0X00, 0X00, 0X00, 0X40, 0X00, 0X00, 0X00, 0X00, 0X64, 0X55, 0X00, 0X00, 0X54, 0X55, 0X94, 0XAA, 0XAA, 0XA9, 0XAA, 0X55, 0X00, 0X00, 0X00, 0X00, 0X14, 0X95, 0X46, 0X15, 0X00, 0X64, 0X9A, 0X01, 0X00, 0X00, 0X00, 0X40, 0X00, 0X00, 0X00, 0X40, 0X55, 0X05, 0X00, 0X00, 0X00, 0X00, 0X94, 0XAA, 0XAA, 0XAA, 0XA5, 0XAA, 0X55, 0X05, 0X00, 0X00, 0X00, 0X94, 0XAA, 0XF0, 0X3F, 0X30, 0X00, 0X54, 0X69, 0X55, 0X01, 0X00, 0X54, 0XA6, 0X01, 0X00, 0X50, 0X06, 0X05, 0X00, 0X00, 0X00, 0X40, 0X45, 0XAA, 0XAA, 0XAA, 0X55, 0X30, 0X30, 0X30, 0X00, 0X54, 0X56, 0X55, 0X01, 0X00, 0X55, 0XA5, 0X01, 0X00, 0X55, 0X01, 0X01, 0X00, 0X00, 0X00, 0X50, 0XAA, 0XFA, 0XAB, 0XAA, 0X56, 0X55, 0X30, 0X0C, 0XCC, 0X00, 0X90, 0X56, 0X55, 0X01, 0X00, 0X55, 0X65, 0X00, 0X00, 0X00, 0X00, 0X00, 0X04, 0X00, 0X00, 0X55, 0X40, 0X01, 0X00, 0X00, 0X40, 0XE5, 0XAF, 0XAA, 0XAA, 0XAA, 0X55, 0X55, 0X30, 0X03, 0X0C, 0X03, 0X40, 0X15, 0X55, 0X00, 0X00, 0X45, 0X55, 0X00, 0X00, 0X00, 0X00, 0X00, 0X05, 0X00, 0X00, 0X55, 0X40, 0X01, 0X54, 0X00, 0X01, 0XE4, 0XAF, 0XAA, 0XAA, 0XAA, 0X55, 0X55, 0XF0, 0X00, 0X03, 0X0C, 0X44, 0X45, 0X55, 0X00, 0X40, 0X01, 0X15, 0X00, 0X00, 0X00, 0X00, 0X00, 0X05, 0X00, 0X00, 0X15, 0X40, 0X55, 0XA9, 0X00, 0X00, 0XE4, 0XBA, 0XAA, 0XAA, 0X55, 0X5A, 0X30, 0XC3, 0X00, 0XF0, 0X14, 0X41, 0X51, 0X00, 0X40, 0X00, 0X15, 0X00, 0X00, 0X00, 0X00, 0X00, 0X04, 0X00, 0X00, 0X15, 0X50, 0XA9, 0XA9, 0X40, 0X00, 0XE0, 0XBF, 0XAA, 0X6A, 0X55, 0X55, 0XA5, 0X30, 0X3C, 0X03, 0X03, 0X54, 0X55, 0X51, 0X01, 0X00, 0X40, 0X05, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X15, 0X50, 0XAA, 0X69, 0X40, 0X00, 0XE0, 0XBB, 0XAA, 0X6B, 0X55, 0X55, 0X95, 0X30, 0X0C, 0X03, 0X03, 0X54, 0X55, 0X95, 0X01, 0X00, 0X40, 0X05, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X14, 0X54, 0XAA, 0X69, 0X40, 0X00, 0XE0, 0XBB, 0XAA, 0X6A, 0X55, 0X55, 0X55, 0X30, 0X0C, 0X03, 0X03, 0X54, 0X55, 0X55, 0X00, 0X00, 0X40, 0X01, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X50, 0X54, 0XAA, 0X65, 0X40, 0X01, 0XE0, 0XBB, 0X69, 0X6A, 0X55, 0X55, 0X55, 0XF0, 0X0C, 0X03, 0X03, 0X54, 0X15, 0X01, 0X00, 0X00, 0X50, 0X41, 0X01, 0X00, 0X05, 0X00, 0X00,

0X00, 0X00, 0X00, 0X40, 0X55, 0XAA, 0XA6, 0X40, 0X05, 0XE0, 0XAB, 0X6A, 0X55, 0X55, 0X55, 0X55, 0X30, 0X03, 0X03, 0X03, 0X54, 0X05, 0X00, 0X00, 0X00, 0X50, 0X51, 0X00, 0X40, 0X05, 0X00, 0X00, 0X00, 0X00, 0X00, 0X40, 0X55, 0XA5, 0X56, 0X40, 0X05, 0XE0, 0XEF, 0X66, 0X6A, 0X55, 0X55, 0X55, 0X30, 0X00, 0X03, 0X03, 0X54, 0X05, 0X00, 0X00, 0X00, 0X14, 0X01, 0X00, 0X40, 0X01, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X55, 0X95, 0X56, 0X01, 0X46, 0XA0, 0XEE, 0X66, 0X6A, 0X55, 0X55, 0X55, 0X30, 0XC0, 0X00, 0X03, 0X54, 0X55, 0X00, 0X00, 0X00, 0X15, 0X05, 0X00, 0X50, 0X01, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X50, 0X56, 0X5A, 0X05, 0X06, 0X55, 0XA9, 0X66, 0X6A, 0X55, 0X55, 0X55, 0X30, 0XC0, 0X00, 0X03, 0X50, 0X55, 0X00, 0X00, 0X00, 0X05, 0X05, 0X00, 0X40, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X40, 0X6A, 0X59, 0X15, 0X19, 0X14, 0XE4, 0X56, 0X6A, 0X55, 0X55, 0X55, 0X30, 0X30, 0X00, 0X03, 0X50, 0X45, 0X00, 0X00, 0X40, 0X41, 0X00, 0X14, 0X40, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0XA5, 0X5A, 0X15, 0X68, 0X50, 0XA4, 0X56, 0X6A, 0X55, 0X55, 0X55, 0X30, 0X00, 0X00, 0X03, 0X54, 0X44, 0X00, 0X00, 0X50, 0X41, 0X55, 0X55, 0X41, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X90, 0XAA, 0X55, 0X94, 0X41, 0XA0, 0X56, 0X6A, 0X55, 0X55, 0X55, 0X00, 0X00, 0X00, 0X00, 0X54, 0X14, 0X00, 0X00, 0X54, 0X55, 0X55, 0X50, 0X06, 0X01, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X50, 0XEA, 0X96, 0X54, 0X06, 0X90, 0X56, 0X5A, 0X55, 0X55, 0X55, 0X00, 0XFF, 0XFF, 0X03, 0X54, 0X05, 0X00, 0X00, 0XA5, 0X56, 0X55, 0X55, 0X59, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X94, 0X56, 0X51, 0X55, 0X90, 0X55, 0X5A, 0X55, 0X55, 0X54, 0X00, 0X03, 0X00, 0X03, 0X64, 0X00, 0X00, 0X40, 0X55, 0X55, 0X55, 0X55, 0X55, 0X01, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X04, 0X69, 0X55, 0X15, 0X90, 0X55, 0X5A, 0X55, 0X55, 0X50, 0X00, 0XFF, 0XFF, 0X03, 0X14, 0X00, 0X00, 0X54, 0X55, 0X15, 0X00, 0X94, 0X55, 0X01, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X64, 0X55, 0X15, 0X90, 0X51, 0X54, 0X55, 0X55, 0X54, 0X00, 0X03, 0X00, 0X03, 0X00, 0X00, 0X00, 0X54, 0X51, 0X05, 0X00, 0X50, 0X16, 0X00, 0XA0, 0X65, 0X05, 0X90, 0X51, 0X56, 0X55, 0X00, 0XFF, 0XFF, 0X03, 0X00, 0X00, 0X04, 0X05, 0X40, 0X01, 0X00, 0X40, 0X05, 0X00, 0X90, 0X66, 0X01, 0X50, 0X51, 0X56, 0X55, 0 0X00, 0X30, 0X30, 0X00, 0X00, 0X00, 0X54, 0X06, 0X00, 0X00, 0X00, 0X00, 0X05, 0X00, 0X50, 0X56, 0X01, 0X54, 0X95, 0X45, 0X55, 0 0X00, 0X30, 0X30, 0X00, 0X00, 0X00, 0X95, 0X0B, 0X00, 0X00, 0X00, 0X00, 0X04, 0X00, 0X40, 0X56, 0X00, 0X54, 0X94, 0X45, 0X55, 0 0X30, 0X30, 0X30, 0X0C, 0X00, 0X40, 0XE5, 0X0B, 0X00, 0X00, 0X00, 0X00, 0X10, 0X00, 0X00, 0X00, 0X05, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X40, 0X15, 0X00, 0X55, 0X65, 0X41, 0X41, 0X55, 0X55, 0XC0, 0X30, 0X30, 0X0C, 0X00, 0X50, 0XF9, 0X0B, 0X00, 0X00, 0X00, 0X00, 0X40, 0X00, 0X00, 0X00, 0X05, 0X00, 0X40, 0X00, 0X00, 0X00, 0X00, 0X40, 0X15, 0X40, 0X15, 0X65, 0X45, 0X50, 0X55, 0X55, 0X00, 0X33, 0X30, 0X03, 0X00, 0X50, 0XFA, 0X1A, 0X00, 0X00, 0X00, 0X00, 0X40, 0X00, 0X00, 0X40, 0X05, 0X00, 0X40, 0X00, 0X00, 0X00, 0X00, 0X00, 0X15, 0X50, 0X55, 0X59, 0X50, 0X50, 0X55, 0X55, 0X00, 0X33, 0XF0, 0X00, 0X40, 0X94, 0XFB, 0X1F, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X40, 0X05, 0X00, 0X00, 0X01, 0X00, 0X00, 0X00, 0X40, 0X15, 0X64, 0X50, 0X1A, 0X40, 0X51, 0X55, 0X55, 0X00, 0X30, 0X30, 0X00, 0X50, 0XA5, 0XEB, 0X1F, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X50, 0X01, 0X00, 0X00, 0X05, 0X00, 0X00, 0X00, 0X40, 0X55, 0X1A, 0X94, 0X56, 0X41, 0X51, 0X55, 0X95, 0XFC, 0XFF, 0XFF, 0XFF, 0X54, 0XA5, 0XEA, 0X1B, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X50, 0X01, 0X00, 0X00, 0X04, 0X00, 0X00, 0X00, 0X40, 0X95, 0X0A, 0XA9, 0X55, 0X55, 0X54, 0X55, 0X95, 0X00, 0X00, 0X00, 0X00, 0X54, 0XA9, 0XAE, 0X0A, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X50, 0X01, 0X00, 0X00, 0X10, 0X00, 0X00, 0X00, 0X40, 0XD5, 0X96, 0XAA, 0X15, 0X54, 0X55, 0X55, 0X65, 0X00, 0X00, 0X00, 0X00, 0X58, 0XA9, 0XAE, 0X06, 0X10, 0X04, 0X00, 0X00, 0X00, 0X00, 0X00, 0X50, 0X11, 0X00, 0X00, 0X50, 0X00, 0X00, 0X00, 0X40, 0X95, 0XE6, 0XAA, 0X15, 0X54, 0X55, 0X55, 0X69, 0X00, 0X00, 0X00, 0X00, 0X58, 0XA9, 0XEA, 0X02, 0X01, 0X00, 0X00, 0X00, 0X00, 0X00, 0X50,

0X01, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X00, 0X95, 0XAA, 0XAA, 0X56, 0X55, 0X55, 0X55, 0X1A, 0X00, 0XFF, 0XFF, 0X0F, 0X58, 0XAA, 0XEA, 0X02, 0X10, 0X00, 0X00, 0X00, 0X00, 0X00, 0X54, 0X00, 0X00, 0X00, 0X00, 0X01, 0X00, 0X15, 0X40, 0X95, 0XAA, 0X6A, 0X55, 0X55, 0X55, 0X95, 0X16, 0X00, 0X00, 0X00, 0X00, 0X94, 0XAA, 0XEA, 0X56, 0X00, 0X00, 0X55, 0X00, 0X00, 0X00, 0X00, 0X14, 0X00, 0X00, 0X00, 0X00, 0X55, 0X55, 0X55, 0X40, 0X91, 0XAA, 0X5A, 0XA9, 0X5A, 0X55, 0X9A, 0X45, 0X00, 0X00, 0X00, 0X00, 0X94, 0XAA, 0XAA, 0X6E, 0X00, 0X05, 0X14, 0X54, 0X00, 0X00, 0X00, 0X14, 0X00, 0X00, 0X00, 0X00, 0X54, 0X55, 0X55, 0X55, 0X91, 0XAA, 0X56, 0XA9, 0X55, 0XA9, 0X9A, 0X51, 0X00, 0X00, 0X00, 0X00, 0X94, 0XAA, 0XAA, 0X6E, 0X00, 0X00, 0X14, 0X04, 0X00, 0X00, 0X00, 0X15, 0X00, 0X00, 0X00, 0X00, 0X50, 0X55, 0X54, 0X01, 0XA1, 0XAA, 0XA5, 0X5A, 0XA9, 0XAA, 0X5A, 0X90, 0XF0, 0XFF, 0XFF, 0X9F, 0X94, 0XAA, 0XAA, 0XBA, 0X00, 0X00, 0X55, 0X01, 0X00, 0X00, 0X00, 0X55, 0X45, 0X01, 0X00, 0X00, 0X40, 0X55, 0X55, 0X55, 0XE4, 0X6A, 0XAA, 0X5A, 0XAA, 0XAA, 0X5A, 0X94, 0X00, 0X00, 0X03, 0X00, 0X94, 0X5A, 0XAA, 0XBA, 0X01, 0X50, 0X41, 0X01, 0X00, 0X00, 0X00, 0X40, 0X55, 0X01, 0X00, 0X00, 0X00, 0X55, 0X05, 0X10, 0XE8, 0XAA, 0XAA, 0XA9, 0XAA, 0XAA, 0X56, 0XA4, 0X00, 0X00, 0X03, 0X00, 0XE4, 0X5A, 0XA9, 0XAA, 0X01, 0X50, 0X01, 0X00, 0X00, 0X00, 0X40, 0X45, 0X55, 0X05, 0X00, 0X00, 0X00, 0X55, 0X55, 0X50, 0XA9, 0XAA, 0XAA, 0XAA, 0XAA, 0XAA, 0X15, 0XA9, 0X00, 0X03, 0XC3, 0X00, 0XE4, 0X5B, 0XA5, 0XBA, 0X01, 0X00, 0X15, 0X00, 0X00, 0X00, 0X40, 0XAA, 0X55, 0X00, 0X00, 0X00, 0X00, 0X50, 0X55, 0X05, 0XAA, 0XAA, 0XAA, 0XAA, 0XAA, 0X6A, 0X15, 0XA9, 0X00, 0X03, 0X03, 0X03, 0XE4, 0X1B, 0X55, 0XBE, 0X02, 0X40, 0X05, 0X00, 0X00, 0X00, 0X40, 0X56, 0X55, 0X15, 0X00, 0X00, 0X00, 0X50, 0X15, 0X54, 0XAA, 0XAA, 0XAA, 0XAA, 0XAA, 0X55, 0X49, 0XC0, 0X00, 0X03, 0X0C, 0XA4, 0X2E, 0X50, 0XFA, 0X02, 0X40, 0X05, 0X00, 0X00, 0X00, 0X50, 0X55, 0X95, 0X1A, 0X00, 0X00, 0X00, 0X40, 0X05, 0X54, 0XAA, 0XAA, 0XAA, 0XAA, 0XAA, 0X5A, 0X5A, 0X56, 0XAA, 0X30, 0X00, 0X03, 0X3C, 0XA4, 0X7E, 0X40, 0XE9, 0X02, 0X40, 0X01, 0X00, 0X00, 0X00, 0X50, 0X55, 0X55, 0X15, 0X00, 0X00, 0X00, 0X00, 0X15, 0X55, 0XAA, 0XAA, 0XAA, 0XAA, 0X9A, 0X96, 0X96, 0XAA, 0X0C, 0X00, 0X03, 0X30, 0XA4, 0XAA, 0X00, 0XA5, 0X06, 0X00, 0X00, 0X00, 0X00, 0X00, 0X50, 0X55, 0X55, 0X15, 0X00, 0X00, 0X00, 0X00, 0X55, 0X45, 0XAA, 0XAA, 0XAA, 0XAA, 0XA6, 0XA6, 0X96, 0XAA, 0X00, 0X00, 0X03, 0X00, 0XA4, 0XEA, 0X01, 0X94, 0X06, 0X00, 0X00, 0X00, 0X00, 0X00, 0X50, 0X55, 0X55, 0X55, 0X00, 0X00, 0X00, 0X00, 0X54, 0X41, 0XAA, 0XA5, 0XAA, 0XAA, 0XAA, 0XA9, 0X56, 0XAA, 0X00, 0X30, 0X03, 0X00, 0X94, 0XAA, 0X42, 0X54, 0X06, 0X00, 0X00, 0X00, 0X00, 0X00, 0X14, 0X40, 0X55, 0X55, 0X00, 0X00, 0X00, 0X00, 0X50, 0X40, 0X6A, 0XA5, 0XAA, 0XAA, 0XAA, 0XA9, 0X6A, 0XAA, 0X00, 0XC0, 0X00, 0X00, 0XA4, 0XA9, 0X02, 0X54, 0X05, 0X00, 0X00, 0X00, 0X00, 0X00, 0X54, 0X04, 0X40, 0X50, 0X00, 0X00, 0X00, 0X00, 0X50, 0X40, 0X1A, 0XA9, 0XAA, 0XAA, 0X6E, 0XE5, 0X6A, 0XAA, };

7.1.3、以下为串行接口方式范例程序

与并行方式相比较,只需改变接口顺序以及传送数据、传送命令这两个函数即可:

🗙 晶联讯电子	液晶模块	JLX12896G-946-PC	更新日期: 2021-03-23				
	MCU: 51系列	液晶模块					
	VDD VSS P3. 4 P3. 5 P3. 3 P1. 3 P1. 0	VCC VSS LCD_CS LCD_RST LCD_RST LCD_RS LCD_SDA LCD_SCK	LUU地区列ILU按口				
	P3. 2 P3. 1 P3. 7 P3. 6	ROM-OUT (SO) ROM-IN (SI) ROM-SCK (SCI ROM-CS (CS#)					
图 2: 串行接口图							
<pre>sbit Rom_OUT=P3^2; /* sbit Rom_SCK=P3^7; /*</pre>		DUT 就是字库 IC 的 SO*/ SCK 就是字库 IC 的 SCK*/					
//传送指令 void transfer_command_l { int k;	cd(unsigned char cmd)						
LCD_CS = 0; LCD_RS= 0;							
<pre>for (k=0; k&lt;8; k++) {     cmd = cmd&lt;&lt;1;     LCD_SCL = 0;     delay(1);     LCD_SDA = CY; // delay_us(10);     LCD_SCL = 1;     delay(1); }</pre>							
LCD_CS=1; } //传送数据							

J

void transfer\_data\_lcd(unsigned char dat) ł unsigned char k;  $LCD_CS = 0;$  $LCD_RS = 1;$ for (k=0; k<8; k++) ł dat = dat << 1;LCD SDA = CY;  $LCD\_SCL = 0;$ // delay\_us(10); LCD SCL = 1;  $delay_us(10);$ // } LCD\_CS=1; }

7.1.4、以下为 IIC 接口方式范例程序

与并行方式相比较,只需改变接口顺序以及传送数据、传送命令这两个函数即可:

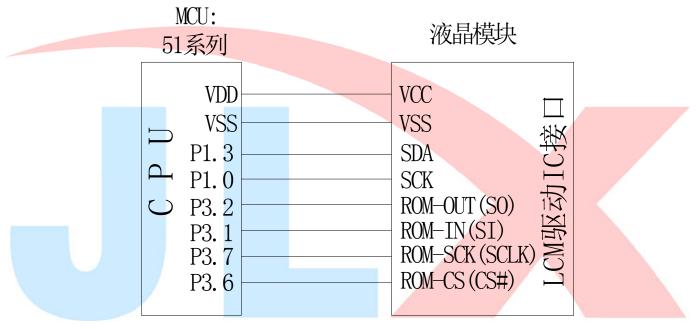
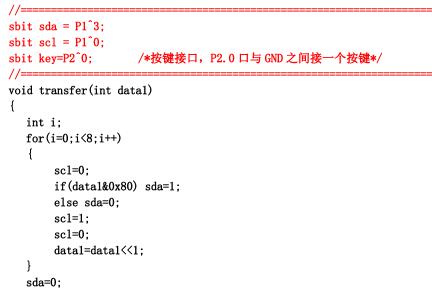


图 3: IIC 接口图



11 晶联讯电	已子	液晶模块	JLX12896G-946-PC	更新日期:	2021-03-23
<pre>scl=1; scl=0;</pre>					
}					
void start_fla ر	.g()				
ر scl=1;	/*START H	FI AC*/			
sda=1;	/*START H				
sda=0;	/*START H				
}					
void stop_flag	:0				
{	(. GROD . D				
<pre>scl=1;</pre>	/*STOP FI				
sda=0;	/*STOP FI				
sda=1;	/*STOP FI	LAG*/			

}

