

JLX12864G-222-PN 使用说明书

录

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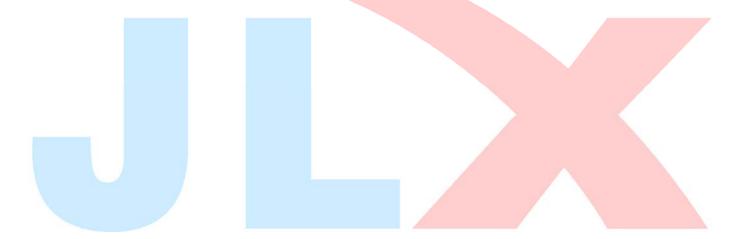
1. 概述

晶联讯电子专注于液晶屏及液晶模块的研发、制造。所生产 JLX12864G-222-PN 型液晶模块由 于使用方便、视角宽、显示清晰、超薄,广泛应用于各种人机交流面板。

JLX12864G-222-PN 可以显示 128 列*64 行点阵单色图片,或显示 16*16 点阵的汉字 8 个*4 行, 或显示 8*16 点阵的英文、数字、符号 16 个*4 行。或显示 5*8 点阵的英文、数字、符号 21 个*8 行。

2. JLX128640LED-222-PN 图像型点阵液晶模块的特性

- 2.1 结构牢: 焊接式 FPC。
- 2.2 IC 采用 IST3932, 功能强大, 稳定性好
- 2.3 功耗低。
- 2.4 显示内容:
 - ●128*64 点阵单色图片;
 - ●可选用 16*16 点阵或其他点阵的图片来自编汉字,按照 16*16 点阵汉字来计算可显示 8 字/行*4 行。按照 12*12 点阵汉字来计算可显示 10 字/行*4 行。
- 2.5 指令功能强:可组合成各种输入、显示、移位方式以满足不同的要求:
- 2.6接口方式:4线 SPI 串行接口。
- 2.7 工作温度宽: 0℃ 50℃:
- 2.8 储存温度宽: -10℃-60℃;



JLX 晶联讯电子

3. 外形尺寸及接口引脚功能

显示模块

3.1 外形图

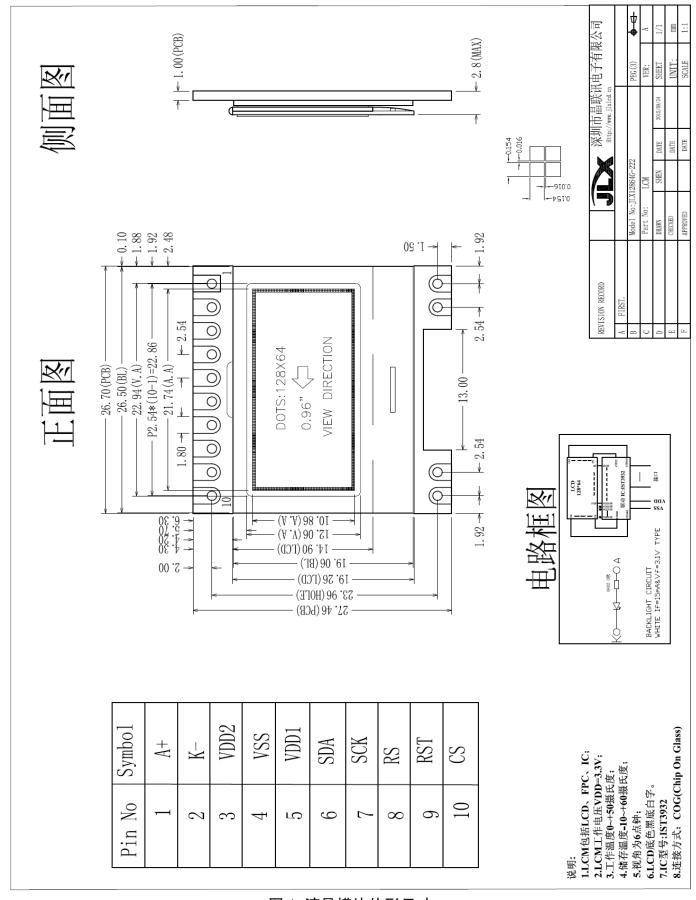
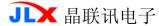


图 1. 液晶模块外形尺寸



模块的接口引脚功能

引线号	符号	名 称	功 能
1	A+	背光正极	3. 3V
2	K-	背光负极	接地 0V
3	VDD2	电源电路	3. 3V
4	VSS	VSS	接地 0V
5	VDD1	VDD1	3. 3V
6	SDA	I/0	串行数据(SDA)
7	SCK	I/0	串行时钟(SCL)
8	RS	寄存选择信号	H: 数据存储器 0: 指令存储
9	RST	I/0	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	I/0	低电平片选

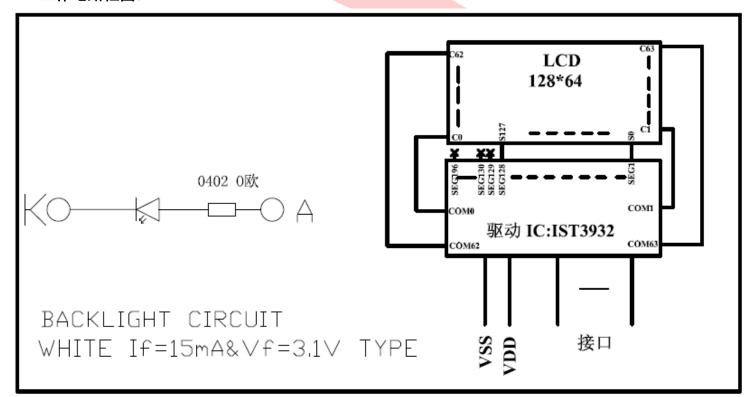
表 1: 模块的接口引脚功能

4. 基本原理

4.1 液晶屏(LCD)

在 LCD 上排列着 128×64 点阵, 128 个列信号与驱动 IC 相连, 64 个行信号也与驱动 IC 相连, IC 邦定在 LCD 玻璃上(这种加工工艺叫 COG).

4.2工作电路框图:



4.3 背光参数

该型号液晶模块带 LED 背光源。它的性能参数如下:

工作温度:-20° C∽+70° C;

存储温度:-30∽+80°C;

背光白色;

正常工作电流为: 8∽20mA (LED 灯数共1颗);

工作电压: 3.0V;

5. 技术参数

5.1 最大极限参数(超过极限参数则会损坏液晶模块)

名称	符号		标准值						
		最小	典型	最大					
电路电源	VDD - VSS	-0.3		7.0	V				
LCD 驱动电压	VDD - VO	VDD - 12.5		VDD + 0.3	V				
静电电压		_		100	V				
工作温度		0		+50	$^{\circ}$				
储存温度		-10		+60	$^{\circ}$				

表 2: 最大极限参数

5.2 直流 (DC) 参数

名 称	符号	测试条件	柞	标准值			
			MIN	TYPE	MAX		
工作电压 VDD1	VDD1		1.8	3. 3	3. 6	V	
工作电压 VDD2	VDD2		2. 4	3. 3	3. 6	V	
输入高电平	VIHC		0.8xVDD1		VDD1	V	
输入低电平	VILC		VSS		0.2xVDD	V	
输出高电平	VOHC	IOH = 0.2 mA	0.8xVDD1	_	VDD1	V	
输出低电平	VOHC	IOO = 1.2mA	VSS		0. 2xVDD	V	
模块工作电流	$\mathbf{I}_{ ext{DD}}$	VDD = 3.3V			0.3	mA	

表 3: 直流 (DC) 参数

6. 读写时序特性

6.1 串行接口:

从CPU写到 IST3932 (Writing Data from CPU to IST3932)

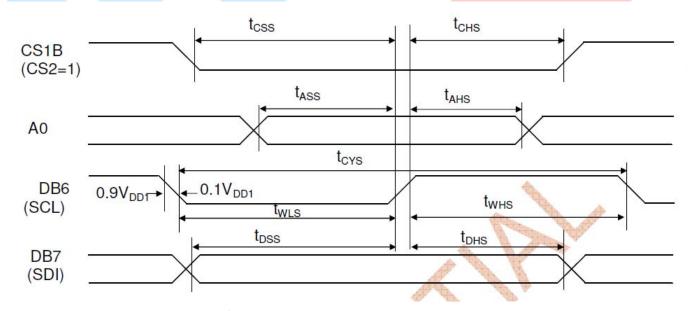


图 4. 从 CPU 写到 IST3932 (Writing Data from CPU to IST3932)

6.2 串行接口: 时序要求 (AC 参数):

写数据到 IST3932 的时序要求:

表	4
グ	т.

-) 2X 10 10 10 10 10 11 11	1,35,110				~	.
项 目	符号	测试条件	极限值			单位
			MIN	TYPE	MAX	

			•	•		,
4线 SPI串口时钟周期	Tscyc	引脚: SCK	200		_	ns
(4-line SPI Clock Period)						
保持SCK高电平脉宽	Tshw	引脚: SCK	90		_	ns
(SCK "H" pulse width)						
保持SCK低电平脉宽	Tslw	引脚: SCK	90		_	ns
(SCK "L" pulse width)						
地址建立时间	Tsas	引脚: RS	45		_	ns
(Address setup time)						
地址保持时间	Tsah	引脚: RS	45		_	ns
(Address hold time)						
数据建立时间	Tsds	引脚: SI	45		_	ns
(Data setup time)						
数据保持时间	Тѕрн	引脚: SI	45		_	ns
(Data hold time)						
片选信号建立时间	Tcss	引脚: CS	90	_	_	ns
(CS-SCL time)						
片选信号保持时间	Tcsh	引脚: CS	90	_	_	ns
(CS-SCL time)						

^{*} $(VDD2 = 2.4V \sim 3.6V, Ta = -30 \sim 80^{\circ}C)$

6.3 电源启动后复位的时序要求 (RESET CONDITION AFTER POWER UP):

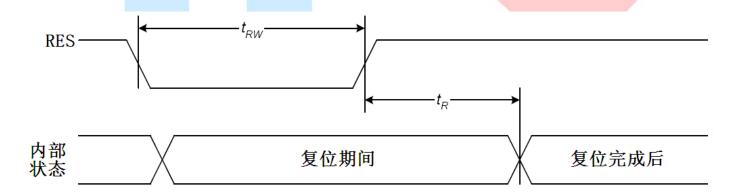
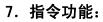


图 7: 电源启动后复位的时序

表 6: 电源启动后复位的时序要求

项 目	符号	测试条件		极限值		单位				
			MIN	TYPE	MAX					
复位时间	tr				2.0	us				
复位保持低电平的时间	trw	引脚: RES	2.0		_	us				



7.1 指令表

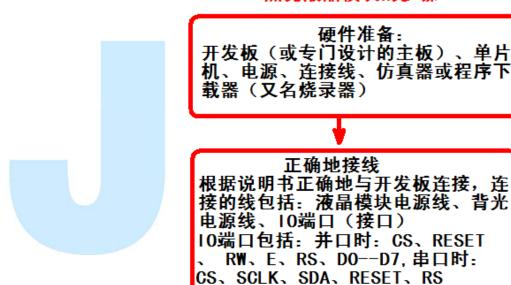
NO.	INSTRUCTION	Α0	RW	DB7	DB6	DB5	DB4	DB3	DB2	DB1	DB0	Description
1	Set AY(2B)	0	0	0	0	0	0	AY3	AY2	AY1	AY0	Set column address LSB
		0	0	0	0	0	1	*	AY6	AY5	AY4	Set column address MSB
2	Power Control	0	0	0	0	1	0	1	1	VC	VF	Power control
3	Select LCD Bias	0	0	0	0	1	1	0	BS2	BS1	BS0	Set LCD bias
4	Sleep Mode	0	0	0	0	1	1	1	0	0	SLP	Power save mode 1:sleep
5	OSC Control	0	0	0	0	1	1	1	0	1	OSCO FF	0: OSC on; 1:OSC off
6	Display On/Off	0	0	0	0	1	1	1	1	0	DON	Turn on/off LCD 0:off;1:on
7	Set Starting	0	0	0	1	0	0	ST3	ST2	ST1	ST0	Set starting line -LSB
	Line(2B)	0	0	0	1	0	1	*	ST6	ST5	ST4	Set starting line -MSB
8	Driver Display Control	0	0	0	1	1	0	SHL	ADC	EON	REV	Driver display control
9	S/W reset	0	0	0	1	1	1	0	1	1	0	Soft reset
10	Set Duty(2B)	0	0	1	0	0	1	DUTY3	DUTY2	DUTY1	DUTY0	Set duty-LSB
10	Set Duty(26)	0	0	1	0	1	0	*	DUTY6	DUTY5	DUTY4	Set duty-MSB
11	Set AX Address	0	0	1	1	0	AX4	АХЗ	AX2	AX1	AX0	Set AX address
12	Read Status	0	1	BUSY	ADC	DONB	RESB	0	0	0	0	Read the internal status
13	SPI3&SPI4 Read Status Command	0	0	0	1	1	1	1	0	0	0	SPI3&SPI4&IIC read status command
14	Write Display Data	1	0				Write	Data				Write data into display RAM
15	Read Display Data	1	1				Read	l Data				Read data from display RAM
16	SPI3&SPI4 Read Ram Command	0	0	0	1	1	1	0	1	1	1	SPI3&SPI4 read ram data command
17	Reference	0	0	1	0	1	1	0	0	0	1	Set reference voltage
17	Voltage Select(2B)	U	U	CT7	CT6	CT5	CT4	СТЗ	CT2	CT1	СТО	mode
				1	0	1	1	0	0	1	0	
18	Frame Control (3B)	0	0	LN7	LN6	LN5	LN4	LN3	LN2	LN1	LN0	Set frame control
				LN15	LN14	LN13	LN12	LN11	LN10	LN9	LN8	
19	NOP	0	0	1	1	1	0	0	0	1	1	No operation (dummy command)
20	MTP command entry	0	0	1	0	0	0	0	0	0	0	MTP command entry
21	MTP CT Offset enable select	0	0	0	0	0	1	1	0	CTOFT E	0	MTP CT offset enable select
22	MTP Program Enable	0	0	1	1	1	0	1	1	0	0	Programming enable
23	MTP Program Start	0	0	0	0	1	0	0	0	0	0	Programming start

24	MTP CT Offset	0	0	0	0	1	0	0	1	1	0	CT offset (2B)
24	(2B)			*	*	*	CTOFT 4	CTOFT 3	CTOFT 2	CTOFT 1	CTOFT 0	OT oliset (2D)
25	MTP Manually	0	0	1	0	1	0	0	0	1	0	MTP manually ADR
20	ADR			*	ADR[6]	ADR[5]	ADR[4]	ADR[3]	ADR[2]	ADR[1]	ADR[0]	
26	Command Register Read Enable	0	0	1	0	0	0	1	1	0	0	Command register read enable
27	IST Command Entry	0	0	1	0	0	0	1	0	0	0	IST command entry, for some hardware operation configuration, it need repeat 4 times to enter
28	COM Mapping	0	0	0	1	1	0	0	0	0	MAP_ MODE	Set com pad map sequence
29	Exit Entry	0	0	1	1	1	0	0	0	1	1	Exit to normal command access

7.2 初始化方法

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

点亮液晶模块的步骤

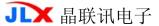


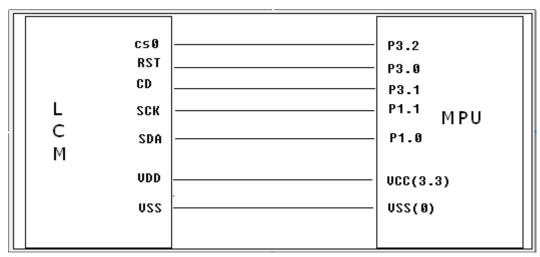
编写软件

背光给合适的直流电可以点亮,但液晶 屏里面没有程序,只给电不能让液晶屏 显示(我们通常说"点亮"),程序须 另外编写,并烧录(下载)到单片机里 液晶模块才能工作。

7.3 程序举例:

液晶模块与 MPU(以 8051 系列单片机为例)接口图如下:





显示模块

图 8.串行接口

7.4程序:



```
液晶演示程序
//
                     液晶模块型号: JLX128640LED-222-PN, 串行接口!
                     驱动 IC 是: IST3932
                     版权所有: 晶联讯电子: 网址 http://www.jlxlcd.cn;
#include <reg52.H>
#include <intrins.h>
#include <string.h>
#include <stdio.h>
sbit lcd_sclk =P1^1; //接口定义:lcd_sclk 就是 LCD 的 SCLK //SCLK 接到 "D0" 脚
                                                                                                         //接口定义:1cd_sda 就是 LCD 的 SDA //SDIN 接到 "D1" 脚
sbit lcd_sda =P1^0;
sbit lcd_reset=P3^0; //接口定义:lcd_reset 就是 LCD 的 RESET
                                                                                   //接口定义:1cd_dc 就是 LCD 的 D/C
 sbit lcd_dc =P3^1;
 sbit lcd_cs1=P3^2;
                                                                                   //接口定义:1cd_cs1 就是 LCD 的 CS
 sbit key=P2^0;
                                                                                                         //定义一个按键: P2.0 口与 GND 之间接一个按键
#define uchar unsigned char // 0~255
#define uint unsigned int // 0~65535
uchar
                             aa:
uchar bdata transdata;
sbit transbit = transdata^7;
sbit transbit0 = transdata^0;
uchar code logo8[]={
/*-- 调入了一幅图像: C:\Documents and Settings\Administrator\桌面\1.bmp --*/
/*-- 宽度 x 高度=128x64 --*/
0x00, 0x00,
0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x7F, 0xFE, 0xFF, 0xFE, 0x00, 0x01, 0x80, 0x00, 0x00, 0x00,
0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0x00, 0x01, 0x80, 0x00, 0x00, 0x00,
0x3F, 0xFF, 0x00, 0x00, 0x00, 0x01, 0x80, 0x00, 0x01, 0x87, 0xFF, 0x80, 0x00, 0x00, 0x00,
0x3F, 0xFF, 0x00, 0x00, 0x00, 0x01, 0x80, 0x00, 0x00, 0x01, 0x87, 0xFF, 0x80, 0x00, 0x00, 0x00,
0x30, 0x03, 0x00, 0x00, 0x00, 0x01, 0x80, 0x00, 0x01, 0x83, 0x01, 0x83, 0x01, 0x80, 0x00, 0x00, 0x00,
0x30,\,0x03,\,0x00,\,0x00,\,0x00,\,0x01,\,0x80,\,0x00,\,0x01,\,0x80,\,0x01,\,0x80,\,0x01,\,0x80,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00
0x37, 0xFB, 0x00, 0x00, 0x00, 0x01, 0x80, 0x00, 0x00, 0x01, 0x80, 0x00, 0x01, 0xFF, 0xFF, 0x80,
0x37, 0xFB, 0x00, 0x00, 0x00, 0x01, 0x80, 0x00, 0x00, 0x01, 0x83, 0xFF, 0x03, 0xFF, 0xFF, 0xCO,
0x30, 0x03, 0x00, 0x00, 0x00, 0x01, 0x80, 0x00, 0x01, 0x87, 0xFF, 0x83, 0x00, 0x00, 0xC0,
0x30, 0x03, 0x00, 0x00, 0x00, 0x01, 0x80, 0x00, 0x01, 0x86, 0x01, 0x83, 0x00, 0x00, 0xC0,
0x37, 0xFB, 0x00, 0x00, 0x00, 0x01, 0x80, 0x00, 0x00, 0x01, 0x86, 0x01, 0x83, 0x00, 0x00, 0xC0, 0x00, 0x00
0x37, 0xFB, 0x00, 0x00, 0x00, 0x00, 0xFF, 0xFE, 0xFF, 0xFF, 0xFF, 0x07, 0xFF, 0x83, 0x00, 0x00, 0xC0,
0x30, 0x03, 0x00, 0x00, 0x00, 0x00, 0x7F, 0xFE, 0xFF, 0xFE, 0x03, 0xFF, 0x03, 0x00, 0x00, 0xC0,
0x30, 0x03, 0x00, 0x03, 0x00, 0x00, 0x00,
0x37, 0xFB, 0x00, 0x00, 0x00, 0x00, 0x7F, 0xFE, 0xFF, 0xFE, 0x00, 0x01, 0x83, 0x00, 0x00, 0xC0,
0x37, 0xFB, 0x00, 0x00, 0x00, 0x00, 0xFF, 0xFE, 0xFF, 0xFF, 0xFF, 0x00, 0x01, 0x83, 0xFF, 0xFF, 0xC0,
0x30, 0x03, 0x00, 0x00, 0x00, 0x01, 0x80, 0x00, 0x01, 0x80, 0x01, 0x80, 0x01, 0xFF, 0xFF, 0x80,
0x30,\,0x03,\,0x00,\,0x00,\,0x00,\,0x01,\,0x80,\,0x00,\,0x01,\,0x80,\,0x01,\,0x80,\,0x01,\,0x80,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00
```

10 电话: 0755-29784961 Http://www.jlxlcd.cn

0x30, 0x03, 0x00, 0x00, 0x00, 0x01, 0x80, 0x00, 0x01, 0x80, 0x01, 0x80, 0x01, 0x80, 0x00, 0x00

11

0x3F, 0xFF, 0x00, 0x00, 0x00, 0x01, 0x80, 0x00, 0x01, 0x87, 0xFF, 0x80, 0x00, 0x00, 0x00, 0x3F, 0xFF, 0x00, 0x00, 0x00, 0x01, 0x80, 0x00, 0x00, 0x01, 0x87, 0xFF, 0x83, 0xFF, 0xFF, 0xC0, 0x0C, 0x0C, 0x00, 0x00, 0x00, 0x01, 0x80, 0x00, 0x00, 0x01, 0x83, 0x01, 0x83, 0xFF, 0xFF, 0xC0, 0x00, 0x000x0C, 0x0C, 0x00, 0x00, 0x00, 0x01, 0x80, 0x00, 0x01, 0x80, 0x01, 0x83, 0x00, 0x00, 0x00, 0x0F, 0xFC, 0x00, 0x00, 0x00, 0x01, 0x80, 0x00, 0x00, 0x01, 0x80, 0x00, 0x03, 0x00, 0x00, 0x00, 0x0F, 0xFC, 0x00, 0x00, 0x00, 0x01, 0x80, 0x00, 0x00, 0x01, 0x83, 0xFF, 0x03, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0x07, 0xFF, 0x83, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x7F, 0xFE, 0xFF, 0xFE, 0x06, 0x01, 0x83, 0x00, 0x06, 0x01, 0x83, 0x00, 0x000x00, 0x00, 0x00, 0x0F, 0xFE, 0x00, 0x00, 0x00, 0x00, 0x07, 0xFF, 0x83, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x1F, 0xFF, 0x00, 0x00, 0xE0, 0x07, 0x00, 0x03, 0xFF, 0x03, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x38, 0x03, 0x80, 0x00, 0xE0, 0x07, 0x00, 0x00, 0x00, 0x03, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x30, 0x01, 0x80, 0x00, 0xE0, 0x07, 0x00, 0x00, 0x01, 0x80, 0x00, 0x00, 0x00, 0x01, 0xF0, 0x00, 0x30, 0x01, 0x80, 0x00, 0x00, 0x00, 0x00, 0x01, 0x80, 0x00, 0x00, 0x00, 0x07, 0xFC, 0x00, 0x30, 0x01, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x0C, 0x00, 0x00, 0x00, 0x00, 0x0E, 0x1E, 0x00, 0x30, 0x01, 0x80, 0x00, 0x00, 0x00, 0x00, 0x07, 0xFF, 0x80, 0x00, 0x00, 0x00, }:

uchar code logo[]={

/*-- 调入了一幅图像: E:\WORK\记录文档\图片\显示图案收藏\12864-542. bmp --*/

/*-- 宽度 x 高度=128x64 --*/

0x00, 0x000x00, 0x00, 0x000x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xO0, 0x00, 0x07, 0xFF, 0xFF, 0xFF, 0xFF, 0xF0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x18, 0x00, 0x00, 0x18, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x04, 0x00, 0x00, 0x00, 0x00, 0x00, 0x04, 0x00, 0x000x00, 0x20, 0x00, 0x20, 0x10, 0x08, 0x02, 0x00, 0x08, 0x00, 0x10, 0x80, 0x80, 0x00, 0x02, 0x00,0x00, 0x40, 0x00, 0x20, 0x09, 0xFC, 0x01, 0x00, 0x10, 0x00, 0x13, 0xF0, 0x9F, 0xC0, 0x01, 0x00, 0x00, 0x80, 0x03, 0xFE, 0x3D, 0x08, 0x00, 0x80, 0x10, 0x00, 0x1A, 0x20, 0x82, 0x00, 0x01, 0x00, 0x00, 0x80, 0x02, 0x22, 0x05, 0x28, 0x00, 0x80, 0x20, 0x00, 0x21, 0x42, 0xA2, 0x00, 0x80, 0x80, 0x01, 0x00, 0x02, 0x22, 0x09, 0x28, 0x00, 0x40, 0x20, 0x00, 0x7F, 0xFA, 0xC2, 0x00, 0x00, 0x80, 0x01, 0x00, 0x03, 0xFE, 0x1D, 0x28, 0x00, 0x40, 0x20, 0x00, 0x12, 0x12, 0x82, 0x00, 0x00, 0x80, 0x01, 0x00, 0x02, 0x22, 0x2B, 0x28, 0x00, 0x40, 0x20, 0x00, 0x13, 0xF0, 0x82, 0x00, 0x00, 0x80, 0x00, 0x000x01, 0x00, 0x02, 0x22, 0x09, 0x28, 0x00, 0x40, 0x20, 0x00, 0x7A, 0x10, 0x82, 0x00, 0x00, 0x80, 0x01, 0x00, 0x03, 0xFE, 0x08, 0x60, 0x00, 0x40, 0x20, 0x00, 0x13, 0xF0, 0xC2, 0x00, 0x00, 0x80, 0x01, 0x00, 0x00, 0x20, 0x88, 0xA4, 0x00, 0x40, 0x20, 0x00, 0x11, 0x41, 0x22, 0x00, 0x00, 0x80,0x01, 0x00, 0x00, 0x20, 0x89, 0x24, 0x00, 0x40, 0x20, 0x00, 0x1A, 0x49, 0x12, 0x00, 0x00, 0x80,0x01, 0x00, 0x00, 0x1F, 0x8A, 0x1C, 0x00, 0x40, 0x20, 0x00, 0x14, 0x3A, 0x06, 0x00, 0x00, 0x80, 0x01, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x40, 0x20, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x80, 0x01, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x40, 0x20, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x80, 0x800x01, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x40, 0x20, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x80,0x01, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x40, 0x20, 0x00, 0x00, 0x00, 0x00, 0x00, 0x80,0x01. 0x00, 0x00, 0x0F, 0xBB, 0x80, 0x00, 0x40, 0x20, 0x77, 0x7D, 0xF3, 0xE1, 0x8F, 0x80, 0x80, 0x01, 0x00, 0x00, 0x0A, 0x91, 0x00, 0x00, 0x40, 0x20, 0x36, 0x10, 0x89, 0x12, 0x44, 0x40, 0x80, 0x01, 0x00, 0x00, 0x02, 0x11, 0x00, 0x00, 0x40, 0x20, 0x36, 0x10, 0x89, 0x14, 0x24, 0x40, 0x80, 0x01, 0x00, 0x00, 0x02, 0x0A, 0x00, 0x00, 0x40, 0x20, 0x36, 0x10, 0xF1, 0xE4, 0x27, 0x80, 0x80, 0x01, 0x00, 0x00, 0x02, 0x0A, 0x00, 0x00, 0x40, 0x20, 0x2A, 0x10, 0xA1, 0x44, 0x25, 0x00, 0x80, 0x00, 0x80, 0x00, 0x02, 0x0A, 0x00, 0x00, 0x80, 0x10, 0x2A, 0x10, 0x91, 0x24, 0x24, 0x81, 0x00,

更新日期: 2015-09-24

0x00, 0x80, 0x00, 0x02, 0x0A, 0x00, 0x00, 0x80, 0x10, 0x2A, 0x10, 0x91, 0x24, 0x24, 0x81, 0x00, 0x00, 0x40, 0x00, 0x02, 0x04, 0x00, 0x01, 0x00, 0x08, 0x2A, 0x10, 0x89, 0x12, 0x44, 0x42, 0x00, 0x00, 0x20, 0x00, 0x07, 0x04, 0x00, 0x02, 0x00, 0x04, 0x6B, 0x7D, 0xCF, 0x99, 0x8E, 0x64, 0x00, 0x00, 0x18, 0x00, 0x18, 0x00, 0x00, 0x07, 0xFF, 0xFF, 0xFF, 0xFF, 0xF0, 0x00, 0x00, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xE0, 0x00, 0x000x00, 0x00, 0x07, 0xFF, 0xFF, 0xFF, 0xFF, 0xF0, 0x00, 0x00, 0x3F, 0xFF, 0xFF, 0xFF, 0xFF, 0xE0, 0x00, 0x00, 0x18, 0x00, 0x04, 0x02, 0x00, 0x0C, 0x00, 0x00, 0xC0, 0x00, 0x00, 0x00, 0x00, 0x18, 0x00, 0x00, 0x20, 0x00, 0xFF, 0xE2, 0x7F, 0x02, 0x00, 0x01, 0x00, 0x88, 0x08, 0x40, 0x40, 0x04, 0x00, 0x00, 0x40, 0x00, 0x90, 0x02, 0x08, 0x01, 0x00, 0x02, 0x07, 0xFF, 0x88, 0x40, 0x4F, 0xE2, 0x00, 0x00, 0x80, 0x00, 0xBD, 0xEA, 0x88, 0x00, 0x80, 0x04, 0x00, 0x88, 0x09, 0x40, 0x41, 0x01, 0x00, 0x00, 0x80, 0x00, 0xA5, 0x2B, 0x08, 0x00, 0x80, 0x04, 0x02, 0x20, 0x09, 0x59, 0x51, 0x01, 0x00, 0x01, 0x00, 0x00, 0xBD, 0x4A, 0x08, 0x00, 0x40, 0x08, 0x01, 0x3E, 0x3D, 0x69, 0x61, 0x00, 0x80, 0x01, 0x00, 0x00, 0xA5, 0x82, 0x08, 0x00, 0x40, 0x08, 0x04, 0x52, 0x09, 0xC9, 0x41, 0x00, 0x80, 0x01, 0x00, 0x00, 0xBD, 0x42, 0x08, 0x00, 0x40, 0x08, 0x02, 0x0C, 0x0B, 0x48, 0x41, 0x00, 0x80, 0x01, 0x00, 0x00, 0xA1, 0x23, 0x08, 0x00, 0x40, 0x08, 0x01, 0x32, 0x09, 0x48, 0x41, 0x00, 0x80, 0x01, 0x00, 0x00, 0xAD, 0xA4, 0x88, 0x00, 0x40, 0x08, 0x06, 0xFF, 0x89, 0x70, 0x61, 0x00, 0x80, 0x01, 0x00, 0x01, 0x35, 0x44, 0x48, 0x00, 0x40, 0x08, 0x02, 0x22, 0x0D, 0x44, 0x91, 0x00, 0x80, 0x01, 0x00, 0x01, 0x01, 0x08, 0x18, 0x00, 0x40, 0x08, 0x02, 0x22, 0x31, 0x04, 0x89, 0x00, 0x80,0x01, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x40, 0x40, 0x08, 0x02, 0x3E, 0x00, 0xFD, 0x03, 0x00, 0x80, 0x01, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x40, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x800x01, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x40, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x80, 0x01, 0x00, 0x3F, 0x7C, 0x31, 0xDD, 0xF0, 0x40, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x80, 0x01, 0x00, 0x11, 0x22, 0x48, 0xC9, 0x50, 0x40, 0x08, 0x03, 0xF7, 0x03, 0x06, 0x3E, 0x00, 0x80, 0x01, 0x00, 0x10, 0x22, 0x84, 0x68, 0x40, 0x40, 0x08, 0x01, 0x12, 0x04, 0x89, 0x11, 0x00, 0x80, 0x01, 0x00, 0x12, 0x3C, 0x84, 0x88, 0x40, 0x40, 0x08, 0x01, 0x02, 0x08, 0x50, 0x91, 0x00, 0x80, 0x01, 0x00, 0x1E, 0x28, 0x84, 0x88, 0x40, 0x40, 0x08, 0x01, 0x22, 0x08, 0x50, 0x9E, 0x00, 0x80, 0x01, 0x00, 0x12, 0x24, 0x84, 0x88, 0x40, 0x40, 0x08, 0x01, 0xE2, 0x08, 0x50, 0x94, 0x00, 0x80, 0x00, 0x80, 0x10, 0x24, 0x84, 0x98, 0x40, 0x80, 0x04, 0x01, 0x22, 0x08, 0x50, 0x92, 0x01, 0x00, 0x00, 0x80, 0x10, 0x22, 0x48, 0x98, 0x40, 0x80, 0x04, 0x01, 0x02, 0x80, 0x50, 0x92, 0x01, 0x00,0x00, 0x40, 0x38, 0x73, 0x31, 0xC8, 0xE1, 0x00, 0x02, 0x01, 0x02, 0x24, 0x89, 0x11, 0x02, 0x00, 0x000x00, 0x20, 0x00, 0x00, 0x00, 0x00, 0x02, 0x00, 0x01, 0x03, 0x87, 0xE3, 0x06, 0x39, 0x84, 0x00, 0x00, 0x18, 0x00, 0x18, 0x00, 0x00, 0x07, 0xFF, 0xFF, 0xFF, 0xFF, 0xF0, 0x00, 0x00, 0x3F, 0xFF, 0xFF, 0xFF, 0xFF, 0xE0, 0x00, 0x000x00, 0x00, 0x00,

uchar code logo1[]={

};

0x00, 0x000x00, 0x00, 0x000x00, 0x00, 0x000x00, 0x00, 0x000x00, 0x00, 0x000x00, 0x00, 0x00

0x00, 0x000x00, 0x00, 0x000x00, 0x00, 0x000x00, 0x00, 0x000x00, 0x00, 0x000x00, 0x00, 0x000x00, 0x00, 0x000x00, 0x00, 0xF8, 0x00, 0xF0, 0xF8, 0x00, 0x00, 0x00, 0x00, 0xF0, 0xF8, 0x18, 0 0x18, 0x18, 0xF8, 0xF0, 0x00, 0x000x00, 0x00, 0x0F, 0xFD, 0x01, 0x01, 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0x01, 0x01, 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0x01, 0x0FF, 0xE0, 0x00, 0x07, 0xFF, 0xFF, 0x00, 0x80, 0xF0, 0x7E, 0x0F, 0x01, 0x00, 0xF8, 0xF8, 0x00, 0x00, 0x00, 0x00, 0x00, 0x80, 0x80, 0x80, 0x00, 0x00, 0x00, 0x07, 0xFF, 0xFF, 0x00, 0x00, 0x00, 0x00, 0xFF, 0xFF, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xFF, 0xFF, 0x00, 0x00

uchar code logo2[]={

/*- 调入了一幅图像: E:\WORK\记录文档\图片\显示图案收藏\12864_大数字. bmp --*/

/*-- 宽度 x 高度=128x64 --*/

0x00, 0x000x00, 0x00, 0x000x00, 0x00, 0x000x00, 0x00, 0x000x00, 0x00, 0x000x00, 0x00, 0x000x00, 0x00, 0x000x00, 0x00, 0x000x00, 0x00, 0x000x00, 0x00, 0x000x00, 0x00, 0x000x00, 0x03, 0xE0, 0x00, 0x03, 0xE0, 0x00, 0x00, 0x00, 0x00, 0x03, 0xE0, 0x00, 0x03, 0xE0, 0x00, 0x00, 0x0E, 0x18, 0x00, 0x0E, 0x18, 0x00, 0x00, 0x00, 0x00, 0x0E, 0x18, 0x00, 0x0E, 0x18, 0x00, 0x00, 0x1C, 0x0C, 0x00, 0x1C, 0x0C, 0x00, 0x00, 0x00, 0x00, 0x1C, 0x0C, 0x00, 0x1C, 0x0C, 0x00, 0x00, 0x38, 0x06, 0x00, 0x38, 0x06, 0x00, 0x00, 0x00, 0x00, 0x38, 0x06, 0x00, 0x38, 0x06, 0x00, 0x00, 0x30, 0x07, 0x00, 0x30, 0x07, 0x00, 0x00, 0x00, 0x00, 0x30, 0x07, 0x00, 0x30, 0x07, 0x00, 0x000x00, 0x70, 0x03, 0x00, 0x70, 0x03, 0x00, 0x00, 0x00, 0x00, 0x70, 0x03, 0x00, 0x70, 0x03, 0x00, 0x00, 0x60, 0x03, 0x00, 0x60, 0x03, 0x00, 0x00, 0x00, 0x00, 0x60, 0x03, 0x00, 0x60, 0x03, 0x00, 0x000x00, 0xE0, 0x03, 0x80, 0xE0, 0x03, 0x80, 0x00, 0x00, 0x00, 0xE0, 0x03, 0x80, 0xE0, 0x03, 0x80. 0x00, 0xE0, 0x03, 0x80, 0xE0, 0x03, 0x80, 0x00, 0x00, 0x00, 0xE0, 0x03, 0x80, 0xE0, 0x03, 0x80, 0x00, 0xE0, 0x01, 0x80, 0xE0, 0x01, 0x80, 0x00, 0x00, 0x00, 0xE0, 0x01, 0x80, 0xE0, 0x01, 0x80, 0x01, 0xC0, 0x01, 0xC1, 0xC0, 0x01, 0xC0, 0x01, 0xE0, 0x01, 0xC0, 0x01, 0xC1, 0xC0, 0x01, 0xC0, 0x01, 0xC0, 0x01, 0xC1, 0xC0, 0x01, 0xC0, 0x03, 0xF0, 0x01, 0xC0, 0x01, 0xC1, 0xC0, 0x01, 0xC0, 0x01, 0xC0, 0x01, 0xC1, 0xC0, 0x01, 0xC0, 0x03, 0xF0, 0x01, 0xC0, 0x01, 0xC1, 0xC0, 0x01, 0xC0,

0x01, 0xC0, 0x01, 0xC1, 0xC0, 0x01, 0xC0, 0x03, 0xF0, 0x01, 0xC0, 0x01, 0xC1, 0xC0, 0x01, 0xC0, 0x01, 0xC0, 0x01, 0xC1, 0xC0, 0x01, 0xC0, 0x03, 0xF0, 0x01, 0xC0, 0x01, 0xC1, 0xC0, 0x01, 0xC0, 0x01, 0xC0, 0x01, 0xC1, 0xC0, 0x01, 0xC0, 0x01, 0xE0, 0x01, 0xC0, 0x01, 0xC1, 0xC0, 0x01, 0xC0, 0xC00x01, 0xC0, 0x01, 0xC1, 0xC0, 0x01, 0xC0, 0x00, 0x00, 0x01, 0xC0, 0x01, 0xC1, 0xC0, 0x01, 0xC0, 0x01, 0xC0, 0x01, 0xC1, 0xC0, 0x01, 0xC0, 0x00, 0x00, 0x01, 0xC0, 0x01, 0xC1, 0xC0, 0x01, 0xC0, 0x01, 0xC0, 0x01, 0xC1, 0xC0, 0x01, 0xC0, 0x00, 0x00, 0x01, 0xC0, 0x01, 0xC1, 0xC0, 0x01, 0xC0, 0x01, 0xC0, 0x01, 0xC1, 0xC0, 0x01, 0xC0, 0x00, 0x00, 0x01, 0xC0, 0x01, 0xC1, 0xC0, 0x01, 0xC0, 0x01, 0xC0, 0x01, 0xC1, 0xC0, 0x01, 0xC0, 0x00, 0x00, 0x01, 0xC0, 0x01, 0xC1, 0xC0, 0x01, 0xC0, 0x01, 0xC0, 0x01, 0xC1, 0xC0, 0x01, 0xC0, 0x00, 0x00, 0x01, 0xC0, 0x01, 0xC1, 0xC0, 0x01, 0xC0, $0x00,\,0xE0,\,0x01,\,0x80,\,0xE0,\,0x01,\,0x80,\,0x00,\,0x00,\,0x00,\,0xE0,\,0x01,\,0x80,\,0xE0,\,0x01,\,0x80,\\$ 0x00, 0xE0, 0x03, 0x80, 0xE0, 0x03, 0x80, 0x00, 0x00, 0x00, 0xE0, 0x03, 0x80, 0xE0, 0x03, 0x80, 0x00, 0xE0, 0x03, 0x80, 0xE0, 0x03, 0x80, 0x00, 0x00, 0x00, 0xE0, 0x03, 0x80, 0xE0, 0x03, 0x80, 0x00, 0x60, 0x03, 0x00, 0x60, 0x03, 0x00, 0x00, 0x00, 0x00, 0x60, 0x03, 0x00, 0x60, 0x03, 0x00, 0x000x00, 0x70, 0x03, 0x00, 0x70, 0x03, 0x00, 0x01, 0xE0, 0x00, 0x70, 0x03, 0x00, 0x70, 0x03, 0x00, 0x00, 0x30, 0x06, 0x00, 0x30, 0x06, 0x00, 0x03, 0xF0, 0x00, 0x30, 0x06, 0x00, 0x30, 0x06, 0x00, 0x00, 0x38, 0x06, 0x00, 0x38, 0x06, 0x00, 0x03, 0xF0, 0x00, 0x38, 0x06, 0x00, 0x38, 0x06, 0x00, 0x00, 0x18, 0x0C, 0x00, 0x18, 0x0C, 0x00, 0x03, 0xF0, 0x00, 0x18, 0x0C, 0x00, 0x18, 0x0C, 0x00, }; uchar code logo3[]={

/*-- 调入了一幅图像: E:\WORK\记录文档\图片\显示图案收藏\12864G-202 无线固话菜单.bmp

/*-- 宽度 x 高度=128x64 --*/

0x00, 0x00, 0x00, 0x20, 0x02, 0x08, 0x00, 0x20, 0x02, 0x0A, 0x00, 0x20, 0x02, 0x09, 0x00, 0x07, 0x80, 0x0F, 0xFF, 0xDF, 0xC8, 0x00, 0x08, 0x40, 0x00, 0xA8, 0x02, 0x3F, 0xC0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x08, 0x40, 0x01, 0x26, 0x02, 0x08, 0x00, 0x08, 0x40, 0x06, 0x21, 0xC2, 0x88, 0x00, 0x80, 0x1B, 0xFE, 0x83, 0x09, 0x00, 0x80, 0x02, 0x02, 0x06, 0x05, 0x00, 0x01, 0x00, 0x03, 0xFE, 0x1A, 0x06, 0x00, 0x02, 0x00, 0x02, 0x02, 0x02, 0x04, 0x00, 0x000x04, 0x00, 0x02, 0x02, 0x02, 0x0E, 0x00, 0x000x08, 0x40, 0x03, 0xFE, 0x02, 0x32, 0x40, 0x00, 0x0F, 0xC0, 0x00, 0x00, 0x02, 0xC1, 0x40, 0x00, 0x0F, 0xFF, 0xCA, 0x00, 0xC0, 0x00, 0x04, 0x00, 0x40, 0x00, 0x000x00, 0x00, 0x00, 0x00, 0x40, 0x10, 0x00, 0x07, 0x70, 0x5F, 0x10, 0x00, 0x05, 0x52, 0x51, 0x28, 0x00, 0x000x07, 0x80, 0x05, 0x52, 0x52, 0x24, 0x00, 0x000x08, 0x40, 0x05, 0x52, 0x54, 0x42, 0x00, 0x000x08, 0x40, 0x05, 0x52, 0x54, 0xFD, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00. 0x00, 0x80, 0x1F, 0xFE, 0x53, 0x10, 0x00, 0x03, 0x00, 0x05, 0x52, 0x52, 0x10, 0x00, 0x000x00, 0x80, 0x05, 0x52, 0x52, 0xFF, 0x00, 0x40, 0x05, 0x52, 0x5A, 0x10, 0x00, 0x40, 0x05, 0x52, 0x54, 0x54, 0x00, 0x00

0x08, 0x40, 0x09, 0x52, 0x50, 0x52, 0x00, 0x08, 0x80, 0x09, 0x50, 0x50, 0x91, 0x80, 0x00, 0x000x07, 0x00, 0x17, 0x50, 0x51, 0x10, 0x80, 0x00, 0x000x00, 0x00, 0x12, 0xB1, 0xD2, 0x50, 0x00, 0x000x00, 0x00, 0x00, 0x00, 0x90, 0x20, 0x00, OXFF, OXFF, OXFF, OXFF, OXFF, OXFB, OXFB, OXFB, OXEB, OXFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFB, 0x7D, 0xED, 0xFF, 0xF0, 0x00, 0x7D, 0x40, 0x3D, 0xEC, 0xF0, 0x00, 0x7F, 0xFF, 0xFB, 0x7B, 0x6D, 0xEE, 0xFF, 0xFE, 0x7F, 0xFF, 0xFF, 0xFB, 0xFA, 0xF5, 0xEF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFD, 0x7F, 0xFE, 0x80, 0xF4, 0x40, 0x34, 0x00, 0x3F, 0xB7, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFB, 0xFF, 0xFC, 0xFD, 0xEB, 0x7B, 0xFD, 0xEB, 0xFF, 0x5B, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, OxFB, Ox7F, OxFD, OxFB, OxFB, OxFB, OxFD, OxEB, OxFE, OxEC, OxFF, 0xF7, 0xFF, 0xF9, 0xFB, 0xFB, 0x40, 0x79, 0xDB, 0xF9, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xF7, 0xFF, 0xF5, 0x00, 0x3B, 0x2F, 0x75, 0xDB, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xF0, 0x3F, 0xED, 0xFB, 0xFB, 0x60, 0x6D, 0xDD, 0xFF, 0x6E, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFB, 0xFB, 0xFB, 0x6F, 0x7D, 0xBD, 0xFB, 0x6F, 0xFF, uchar code logo4[]={

/*-- 调入了一幅图像: E:\WORK\记录文档\图片\显示图案收藏\12864_熊猫.bmp --*/

/*-- 宽度 x 高度=128x64 --*/

OXFF, 0x80, 0x00, 0x01, 0x80, 0x00, 0x00, 0x78, 0x00, 0x00, 0x03, 0xF0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x01, 0x80, 0x00, 0x03, 0xFE, 0x00, 0x00, 0x0F, 0xFC, 0x00, 0x00, 0x00, 0xFC, 0x00, 0x00, 0x00, 0x01, 0x80, 0x00, 0x07, 0xFF, 0x80, 0x00, 0x1F, 0xFE, 0x00, 0x00, 0x03, 0xFF, 0x00, 0x00, 0x01, 0x80, 0x00, 0x0F, 0xFF, 0xC0, 0x00, 0x3F, 0xFF, 0x00, 0x00, 0x0F, 0xFF, 0x80, 0x00, 0x00, 0x01, 0x80, 0x00, 0x1F, 0xFF, 0xFF, 0xFC, 0x7F, 0xFF, 0x80, 0x00, 0x1F, 0xFF, 0xC0, 0x00, 0x01, 0x80, 0x00, 0x3F, 0xFF, 0xF0, 0x07, 0xFF, 0xFF, 0x80, 0x00, 0x1F, 0xFF, 0xE0, 0x00, 0x01, 0x80, 0x00, 0x3F, 0xFF, 0x80, 0x00, 0xFF, 0xFF, 0xC0, 0x00, 0x3F, 0xFF, 0xE0, 0x00, 0x01, 0x80, 0x00, 0x7F, 0xFE, 0x00, 0x00, 0x3F, 0xFF, 0xC0, 0x00, 0xFF, 0xFF, 0xF0, 0x00, 0x00, 0x01, 0x80, 0x00, 0x7F, 0xFC, 0x00, 0x00, 0x1F, 0xFF, 0xC0, 0x1F, 0xFF, 0xFF, 0xFF, 0xF0, 0x00, 0x00, 0x01, 0x80, 0x00, 0x7F, 0xF0, 0x00, 0x00, 0x07, 0xFF, 0xC0, 0x70, 0x00, 0xFF, 0xF0, 0x00, 0x00, 0x01, 0x80, 0x00, 0x7F, 0xE0, 0x00, 0x00, 0x03, 0xFF, 0xD9, 0x80, 0x00, 0x1F, 0xF0, 0x00, 0x00, 0x01, 0x80, 0x00, 0x7F, 0xC0, 0x00, 0x00, 0x01, 0xFF, 0xDE, 0x00, 0x00, 0x0F, 0xF0, 0x00, 0x01, 0x80, 0x00, 0x7F, 0x80, 0x00, 0x00, 0x01, 0xFF, 0xDC, 0x00, 0x00, 0x03, 0xF0, 0x00, 0x00, 0x01, 0x80, 0x00, 0x7F, 0x80, 0x00, 0x00, 0x00, 0xFF, 0xF8, 0x00, 0x00, 0x01, 0xE0, 0x00, 0x00, 0x01, 0x80, 0x00, 0x3F, 0x00, 0x00, 0x00, 0x00, 0x7F, 0xB0, 0x00, 0x00, 0x00, 0xE0, 0x00, 0x00, 0x01, 0x80, 0x00, 0x3E, 0x00, 0x00, 0x00, 0x00, 0x7F, 0x20, 0x00, 0x00, 0xF0, 0x60, 0x00, 0x00, 0x01, $0x80,\,0x00,\,0x1E,\,0x07,\,0x80,\,0x00,\,0x00,\,0x3F,\,0x40,\,0x00,\,0x07,\,0xFC,\,0x20,\,0x00,\,0x00,\,0x01$ 0x80, 0x00, 0x0C, 0x3F, 0xF0, 0x03, 0xF8, 0x3E, 0x80, 0x00, 0x0F, 0xFF, 0x30, 0x00, 0x00, 0x01, 0x80, 0x00, 0x0C, 0x7F, 0xF8, 0x0F, 0xFE, 0x1B, 0x80, 0x00, 0x1F, 0xFF, 0x90, 0x00, 0x01, 0x80, 0x00, 0x0C, 0xFF, 0xFC, 0x1F, 0xFF, 0x17, 0x00, 0x00, 0x3F, 0xFF, 0x98, 0x00, 0x00, 0x01, 0x80, 0x00, 0x09, 0xFF, 0xFE, 0x3F, 0xFF, 0x9F, 0x00, 0x00, 0x3F, 0xFF, 0xC8, 0x00, 0x00, 0x01, 0x80, 0x00, 0x09, 0xFF, 0xFE, 0x7F, 0xFF, 0xCF, 0x00, 0x00, 0x3F, 0xFF, 0xCC, 0x00, 0x00, 0x01, 0x80, 0x00, 0x0B, 0xFF, 0xFF, 0xFF, 0xFF, 0xCE, 0x03, 0xF0, 0x7F, 0x0F, 0xE4, 0x00, 0x00, 0x01, 0x80, 0x00, 0x0B, 0xFF, 0xFF, 0xFF, 0xFF, 0xCA, 0x0F, 0xFC, 0x7E, 0x07, 0xE4, 0x00, 0x00, 0x01, 0x80, 0x00, 0x0B, 0xFE, 0x7F, 0xFE, 0x3F, 0xEA, 0x1F, 0xFE, 0x7C, 0x47, 0xE4, 0x00, 0x00, 0x01,

0x80, 0x00, 0x0F, 0xFC, 0x1F, 0xFC, 0x1F, 0xEA, 0x3F, 0xFF, 0x7C, 0x67, 0xE4, 0x00, 0x00, 0x01, 0x80, 0x00, 0x0F, 0xF8, 0x1F, 0xF8, 0x0F, 0xEE, 0x7F, 0xFF, 0xFE, 0x47, 0xC4, 0x00, 0x00, 0x01, 0x80, 0x00, 0x0B, 0xF9, 0xDF, 0xF9, 0xCF, 0xEA, 0x7F, 0xFF, 0xFE, 0x07, 0xC4, 0x00, 0x00, 0x01, 0x80, 0x00, 0x0F, 0xF9, 0x1F, 0xFA, 0x2F, 0xFA, 0xFF, 0x07, 0xFF, 0x0F, 0xC7, 0xC0, 0x00, 0x01, 0x80, 0x00, 0x05, 0xFC, 0x1E, 0x7C, 0x1F, 0xD2, 0xFE, 0x07, 0xFF, 0xFF, 0x98, 0x40, 0x00, 0x01, 0x80, 0x00, 0x05, 0xFE, 0x3E, 0x7E, 0x1F, 0xD2, 0xFE, 0x63, 0xCF, 0xFF, 0x20, 0x80, 0x00, 0x01, 0x80, 0x00, 0x06, 0xFF, 0xFC, 0x3F, 0xFF, 0xB2, 0xFE, 0x23, 0xC7, 0xFE, 0x43, 0x00, 0x00, 0x01, 0x80, 0x00, 0x02, 0x7F, 0xF8, 0x1F, 0xFF, 0x22, 0xFE, 0x07, 0xC3, 0xFC, 0x7C, 0x00, 0x00, 0x01, 0x80, 0x00, 0x03, 0x3F, 0xE3, 0xCF, 0xFE, 0x63, 0xFE, 0x07, 0xC0, 0x00, 0x08, 0x00, 0x00, 0x01, 0x80, 0x00, 0x01, 0xFF, 0x07, 0xC3, 0xFC, 0xC1, 0x7F, 0x9F, 0xD6, 0x00, 0x18, 0x00, 0x00, 0x01, 0x80, 0x00, 0x02, 0x0C, 0x03, 0xC0, 0x3F, 0xC1, 0x7F, 0xFF, 0x9E, 0x00, 0x11, 0xFC, 0x00, 0x01, 0x80, 0x00, 0x02, 0x04, 0x01, 0x00, 0x30, 0x61, 0xBF, 0xFF, 0x9E, 0x00, 0x37, 0xFC, 0x00, 0x01, 0x80, 0x00, 0x01, 0xF8, 0x02, 0x40, 0x30, 0x60, 0xBF, 0xFF, 0x0C, 0x00, 0x3F, 0xFC, 0x00, 0x01, 0x80, 0x00, 0x00, 0x38, 0x01, 0x80, 0x1F, 0x80, 0xDF, 0xFE, 0x00, 0x00, 0x7F, 0xFC, 0x00, 0x01, 0x80, 0x00, 0x00, 0x0C, 0x00, 0x00, 0x3F, 0xE0, 0x47, 0xF8, 0x01, 0x00, 0xFF, 0xFC, 0x00, 0x01, 0x80, 0x00, 0x00, 0x7F, 0x00, 0x00, 0xFF, 0xFC, 0x60, 0x60, 0x00, 0x01, 0xFF, 0xFC, 0x00, 0x01, 0x80, 0x00, 0x01, 0xFF, 0xE0, 0x07, 0xBF, 0xFF, 0x70, 0xE0, 0x00, 0x03, 0xFF, 0xFC, 0x00, 0x01, }; uchar code logo5[]={

/*-- 调入了一幅图像: E:\WORK\记录文档\图片\显示图案收藏\12864G-202 反显.bmp --*/

/*-- 宽度 x 高度=128x64 --*/

0xff, 0xff, 0xff, 0xff, 0xff, 0xc0, 0x07, 0xff, 0xDE, 0x0F, 0xDB, 0xB7, 0xFF, 0xEF, 0xDF, 0x7F, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xCE, 0xEF, 0xDB, 0xB7, 0x83, 0xEF, 0xDF, 0x7F, 0xC0, 0x01, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xDE, 0xEF, 0xCO, 0x07, 0xFB, 0xEF, 0xDF, 0x7F, 0xDD, 0xDF, 0xFF, 0xFF, 0xFF, 0xFF, Oxff, 0xFF, 0xFF, 0xFF, 0xFE, 0xEF, 0x80, 0x03, 0xBB, 0xEF, 0xC1, 0x71, 0xD0, 0x03, 0xFF, 0xFF, 0xFF, 0xFF, OxFF, OxFF, OxFF, Ox1D, OxF1, OxFD, OxFF, OxDB, OxEF, OxDF, OxOF, OxDD, OxDF, OxFF, OxFF, OxFF, 0xFF, 0xFF, 0xFF, 0xDA, 0x07, 0xE0, 0x0F, 0xE6, 0xEF, 0xDF, 0x7F, 0xDC, 0x1F, 0xFF, 0xFF, 0xFF, 0xFF, Oxff, Oxff, Oxff, Oxff, Oxff, Oxef, Oxef, Oxff, 0xFF, 0xFF, 0xFF, 0xDE, 0xF7, 0xE0, 0x0F, 0xEB, 0x2F, 0xDF, 0x7F, 0xD8, 0x07, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xDF, 0x6F, 0xEF, 0xEF, 0xDB, 0x6F, 0xDF, 0x7F, 0xDD, 0xEF, 0xFF, 0xFF, 0xFF, 0xFF, 0xff, 0xff, 0xff, 0xff, 0x6f, 0xe0, 0x0f, 0xDD, 0xef, 0xDB, 0x7D, 0xDE, 0xDf, 0xff, 0xff, 0xff, 0xFF, 0xFF, 0xFF, 0xD7, 0x9F, 0xEF, 0xEF, 0xBD, 0xEF, 0xD7, 0x7D, 0xDF, 0x3F, 0xFF, 0xFF, 0xFF, Oxff, Oxff, Oxff, Oxcf, Ox6f, Oxeo, Oxof, Ox7f, Oxef, Oxcf, Ox7D, Oxbe, Oxcf, Oxff, Oxff, Oxff, 0xFF, 0xFF, 0xFF, 0xDC, 0xF1, 0xEF, 0xEF, 0xFF, 0xAF, 0xDF, 0x81, 0xB9, 0xF1, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFB, 0xFB, 0x00, 0x01, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0x00, 0x80, 0x08, 0x10, 0x10, 0x40, 0x00, 0x10, 0x90, 0x06, 0x18, 0x18, 0x60, 0x00, 0x08, 0x98, 0x04, 0x20, 0x17, 0xFC, 0x00, 0x000x0C, 0x90, 0xFF, 0xFE, 0x10, 0x40, 0x00, 0x08, 0xA0, 0x00, 0x00, 0x20, 0x80, 0x00, 0x000x00, 0x80, 0x3E, 0x08, 0x33, 0xF8, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00. 0x3F, 0xFC, 0x22, 0x48, 0x62, 0x08, 0x00, 0x04, 0x3E, 0x48, 0xA3, 0xF8, 0x00, 0x04, 0x22, 0x48, 0x22, 0x08, 0x00, 0x1F, 0xFC, 0x22, 0x48, 0x23, 0xF8, 0x30, 0x00, 0x04, 0x3E, 0x48, 0x22, 0x08, 0x30, 0x00, 0x00

0x00, 0x04, 0x22, 0x48, 0x23, 0xF8, 0x00, 0x04, 0x22, 0x48, 0x22, 0x08, 0x30, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3F, 0xFC, 0x2A, 0x08, 0x22, 0x08, 0x30, 0x00, 0x000x00, 0x04, 0x24, 0x28, 0x2F, 0xFE, 0x00, 0x10, 0x20, 0x00, 0x10, 0x00, 0x40, 0x00, 0x10, 0x40, 0x00, 0x000x08, 0x0E, 0x21, 0xF0, 0x18, 0x60, 0x00, 0x7F, 0x70, 0x31, 0x10, 0x17, 0xFC, 0x00, 0x22, 0x40, 0x21, 0x10, 0x10, 0x40, 0x00, 0x000x14, 0x40, 0x01, 0x10, 0x20, 0x80, 0x00, 0x000xFF, 0x7E, 0x01, 0x10, 0x33, 0xF8, 0x00, 0x08, 0x48, 0xE2, 0x0E, 0x62, 0x08, 0x00, 0x08, 0x48, 0x25, 0xF8, 0xA3, 0xF8, 0x00, 0xFF, 0x48, 0x21, 0x08, 0x22, 0x08, 0x00, 0x08, 0x48, 0x21, 0x08, 0x23, 0xF8, 0x30, 0x00, 0x2C, 0x48, 0x20, 0x90, 0x22, 0x08, 0x30, 0x00, 0x2A, 0x88, 0x20, 0x90, 0x23, 0xF8, 0x00, uchar code logo6[]={

/*-- 调入了一幅图像: E:\WORK\记录文档\图片\12864-<mark>坏苹果-bad apple\2654.bmp --*/</mark>

/*-- 宽度 x 高度=128x64 --*/

OXFF, 0xFF, OXFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xO3, 0xFF, Oxff, Oxff, Oxff, Oxff, Oxff, Oxff, Oxfe, Oxfe, Oxff, OxFC, OxOO, Ox3F, OxFO, OxFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFC, 0x00, 0x03, 0x01, 0xFF, 0xf8, 0x00, 0x00, 0x01, 0xff, 0xEO, 0x00, 0x01, 0xFF, 0xef, 0xe0, 0x00, 0x03, 0xff, 0x80, 0x00, 0x03, 0xFF, 0x00, 0x00, 0x07, 0xFF, 0xOF, 0x00, 0x03, 0xFF, 0xfe, 0x00, 0x00, 0x03, 0xff, 0xFE, 0x00, 0x00, 0x03, 0xFF, 0xFC, 0x00, 0x00, 0x03, 0xFF, 0xfc, 0x00, 0x00, 0x07, 0xff, 0xFC, 0x00, 0x00, 0x1F, 0xFF, 0xfc, 0x00, 0x00, 0x7f, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, OXFF, OXFF, OXFF, OXFF, OXFF, OXFF, OXFF, OXFC, OXOO, OXOO, OXFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xF8, 0x00, 0x00, 0xFF, 0xF8, 0x00, 0x00, 0xFF, 0xf8, 0x00, 0x00, 0xff, 0xf8, 0x00, 0x00, 0xff, 0xF0, 0x00, 0x00, 0x3F, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,

18

0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xF0, 0x00, 0x00, 0x3F, 0xFF, 0xE0, 0x3F, 0xFF, 0xE0, 0x00, 0x00, 0x0F, 0xFF, 0xE0, 0x3F, 0xFF, 0xE0, 0x00, 0x00, 0x07, 0xFF, 0xc0, 0x00, 0x00, 0x03, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xFF, 0xFF, 0xFF, 0xC0, 0x3F, 0xFF, 0x80, 0x00, 0x00, 0x01, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xCO, 0x7F, 0xFF, 0x8O, 0x0O, 0x0O, 0x01, 0xFF, 0x80, 0x00, 0x00, 0x00, 0xFF, 0x00, 0x00, 0x00, 0x00, 0x7F, 0xFF, 0x0f, 0x00, 0x00, 0x00, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xod, 0xff, 0xfe, 0x00, 0x00, 0x00, 0x00, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xc0, 0x01, 0xfe, 0x00, 0x00, 0x00, 0x00, 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0xFF, 0xFF, 0xFF, 0x8F, 0x80, 0x3E, 0x00, 0x00, 0x00, 0x00, 0xFF, 0xCO, 0x02, 0x00, 0x00, 0x00, 0x00, 0xFF, 0xF0, 0x00, 0x00, 0x00, 0x00, 0x00, 0xFF, 0xCO, 0x00, 0x00, 0x00, 0x30, 0x7F, 0xFF, 0xF8, 0x20, 0x00, 0x00, 0x70, 0x01, 0xFF, 0xFE, 0x00, 0x00, 0x00, 0x00, 0x078, 0x00, 0x0F, 0x9F, 0xFF, uchar code logo7[]={

/*-- 调入了一幅图像: E:\WORK\记录文档\图片\12864-<mark>坏苹果-bad apple\5540.bmp --*/</mark>

/*-- 宽度 x 高度=128x64 --*/

OXFF, 0xFF, OXFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFC, 0x00, 0x03, 0xFF, 0xc0, 0x00, 0x03, 0xff, 0x00, 0x00, 0x1F, 0xFF, 0xF8, 0x00, 0x00, 0x1F, 0xFF, 0xE0, 0x00, 0x00, 0x0F, 0xFF, 0xC0, 0x00, 0x00, 0x1F, 0xFF, 0x00, 0x00, 0x01, 0xff, 0xFE, 0x00, 0x00, 0x01, 0xFF, 0x00, 0x00, 0x01, 0xFF, 0xFO, 0x00, 0x00, 0x00, 0x3F, 0xFF, 0x60, 0x00, 0x00, 0x0f, 0xff, 0xC0, 0x00, 0x00, 0x00, 0x0F, 0xFF, 0xC0, 0x00, 0x00, 0x00, 0x07, 0xFF, 0x6f, 0x00, 0x00, 0x00, 0x0f, 0xff, 0x00, 0x00, 0x00, 0x00, 0x3F, 0xFF, 0x00, 0x00, 0x00, 0x00, 0x3F, 0xFF, 0xFE, 0x00, 0x00, 0x00, 0x00, 0x3F, 0xFF, 0xFE, 0x00, 0x00, 0x00, 0x07, 0xFF, 0xFC, 0x00, 0x00, 0x08, 0x07, 0xFF, 0x00, 0x00, 0x1E, 0x07, 0xff, 0xFC, 0x00, 0x00, 0x7F, 0xC0, 0xFF, 0xFC, 0x00, 0x03, 0xFF, 0xC0, 0x7F, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,

0xFF, 0xFF, 0xFC, 0x00, 0x07, 0xFF, 0x80, 0x1F, 0xFF, 0xFC, 0x00, 0x07, 0xFF, 0x80, 0x07, 0xFF, 0xFC, 0x00, 0x0F, 0xFF, 0x80, 0x03, 0xFF, 0xFE, 0x01, 0xFF, 0xFF, 0x80, 0x03, 0xFF, 0x00, 0x03, 0xE7, 0xFF, 0x00, 0x07, 0xE1, 0xFF, 0x00, 0x07, 0x81, 0xFF, 0x00, 0x00, 0x07, 0xFF, 0xof, 0x00, 0x1f, 0xff, 0x80, 0x03, 0xFF, Oxff, Oxff, Oxff, Oxff, Oxff, Oxff, Oxco, Ox03, Oxff, OXEO, OXO3, OXFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xC0, 0x03, 0xFF, 0x00, 0x03, 0xFF, 0xO, 0x01, 0xFF, 0 uchar code logo9[]={

/*-- 调入了一幅图像: C:\Documents and Settings\Administrator\桌面\64X128.bmp --*/

/*-- 宽度 x 高度=128x64 --*/

0x00, 0x00, 0x7F, 0xFF, 0x80, 0x00, 0x7F, 0xBB, 0x80, 0x00, 0x00, 0x01, 0x00, 0x01, 0x08, 0x1E, 0x00, 0x0C, 0x00, 0x00, 0x00, 0x00, 0x7F, 0xB9, 0x80, 0x00, 0x04, 0x01, 0x04, 0x01, 0x38, 0x04, 0x00, 0x10, 0xFF, 0xFE, 0x00, 0x00, 0x7F, 0xBB, 0x80, 0x00, 0xF4, 0x01, 0xF4, 0x01, 0x48, 0x18, 0x00, 0x00, 0x00, 0x01, 0x00, 0x00, 0x41, 0x87, 0x80, 0x00, 0x95, 0xFF, 0x95, 0xFF, 0x08, 0x60, 0x3F, 0x8E, 0x00, 0x02, 0x00, 0x00, 0x55, 0xB7, 0x80, 0x00, 0x95, 0x55, 0x95, 0x55, 0xFF, 0x80, 0x2A, 0x82, 0x3F, 0xF0, 0x00, 0x00, 0x55, 0xAF, 0x80, 0x00, 0xF5, 0x55, 0xF5, 0x55, 0x09, 0x08, 0x2A, 0x82, 0x00, 0x00, 0x00, 0x10, 0x55, 0x9F, 0x80, 0x00, 0x95, 0x55, 0x95, 0x55, 0x09, 0x08, 0x2A, 0x9A, 0x12, 0xFC, 0x00, 0x10, 0x40, 0x00, 0x00, 0x00, 0x9D, 0x55, 0x9D, 0x55, 0x09, 0xF8, 0xAA, 0xA2, 0x12, 0x86, 0x1F, 0xD0, 0x55, 0x9F, 0x80, 0x00, 0x97, 0x55, 0x97, 0x55, 0x09, 0x04, 0x6A, 0x82, 0x12, 0x84, 0x54, 0x90, 0x55, 0xAF, 0x84, 0x04, 0xF5, 0x55, 0xF5, 0x55, 0x09, 0x04, 0x2A, 0x82, 0xFF, 0xFF, 0xD4, 0x90, 0x55, 0xB7, 0xAE, 0x4E, 0x95, 0x55, 0x95, 0x55, 0x00, 0x08, 0x2A, 0xBC, 0x12, 0x80, 0x34, 0x90, 0x41, 0xBB, 0xA2, 0x42, 0x95, 0xFF, 0x95, 0xFF, 0x10, 0x04, 0x3F, 0x80, 0x52, 0x80, 0x14, 0x90, 0x7F, 0xBB, 0x92, 0x22, 0xF4, 0x01, 0xF4, 0x01, 0x3B, 0xFE, 0x00, 0x1C, 0xF2, 0xFC, 0x1F, 0xFF, 0x7F, 0xBD, 0x92, 0x22, 0x04, 0x01, 0x04, 0x01, 0x42, 0x00, 0x00, 0x04, 0x0A, 0x00, 0x54, 0x90, 0x7F, 0xBD, 0xBE, 0xFC, 0x00, 0x01, 0x00, 0x01, 0x02, 0x00, 0x00, 0x00, 0x00, 0x00, 0x74, 0x90, 0x7F, 0xFF, 0x80, 0x00, 0x94, 0x90, 0x7B, 0xFD, 0x88, 0x00, 0x02, 0x02, 0x02, 0x02, 0xFF, 0xFE, 0x10, 0x00, 0x10, 0x02, 0x14, 0x90, 0x78, 0x7C, 0x9D, 0xFE, 0x02, 0x03, 0x02, 0x03, 0x00, 0x01, 0x10, 0x00, 0x1B, 0x42,0x1F, 0xD0, 0x7B, 0x99, 0x49, 0x51, 0x03, 0xC2, 0x03, 0xC2, 0x00, 0x02, 0x15, 0x7E, 0x12, 0x42, 0x00, 0x10, 0x5B, 0xE7, 0x89, 0x52, 0x7D, 0x34, 0x7D, 0x34, 0x1F, 0xE0, 0x15, 0x44, 0x34, 0x42, 0x00, 0x10, 0x03, 0x9B, 0x89, 0x50, 0x41, 0x08, 0x41, 0x08, 0x00, 0x00, 0x55, 0x44, 0x50, 0x7E, 0x00, 0x00, 0x78, 0x7D, 0xA9, 0x50, 0x41, 0x08, 0x41, 0x08, 0x7F, 0xE6, 0x75, 0x44, 0x14, 0x42, 0x40, 0x40, 0x7E, 0xFD, 0x9D, 0xFF, 0x41, 0x34, 0x41, 0x34, 0x40, 0x08, 0x95, 0x44, 0x12, 0x42, 0x40, 0x44, 0x76, 0xFE, 0x88, 0x00, 0x7D, 0xC2, 0x7D, 0xC2, 0x4F, 0xF0, 0x15, 0x44, 0x19, 0x42, 0x4C, 0x46, 0x75, 0x3A, 0x80, 0x00, 0x02, 0x02, 0x02, 0x02, 0x40, 0x0C, 0x15, 0x7E, 0x00, 0x02, 0x4A, 0x4C, 0x73, 0xD7, 0x80, 0x00, 0x01, 0x01, 0x01, 0x01, 0x7F, 0xE2, 0x50, 0x00, 0x12, 0x00,

0x49, 0x48, 0x47, 0xE7, 0x8F, 0xF8, 0x00, 0x09, 0x00, 0x09, 0x00, 0x01, 0xE0, 0x00, 0x11, 0x00, 0xF8, 0x50, 0x31, 0xDB, 0x88, 0x04, 0x20, 0x04, 0x20, 0x04, 0x06, 0x00, 0x3F, 0xFE, 0xFF, 0xFE, 0x48, 0x60, 0x76, 0x3D, 0x88, 0x06, 0x73, 0xFE, 0x73, 0xFE, 0x61, 0xC0, 0x0C, 0x00, 0x10, 0x81, 0x4A, 0xFF, 0x77, 0xBE, 0xBE, 0x04, 0x82, 0x00, 0x82, 0x00, 0x8C, 0x3F, 0x02, 0x00, 0x10, 0x42, 0x4C, 0x60, 0x7F, 0xFE, 0x89, 0xC4, 0x02, 0x00, 0x02, 0x00, 0x10, 0x20, 0x01, 0x00, 0x10, 0x40, 0xF8, 0x50, 0x7F, 0xFF, 0x88, 0x30, 0x00, 0x49, 0x48, 0x7F, 0xFF, 0xA8, 0x88, 0x00, 0x0E, 0x04, 0x00, 0x00, 0x80, 0x21, 0x0E, 0x00, 0x04, 0x44, 0x44, 0x00, 0x00, 0x08, 0x44, 0x00, 0x02, 0x04, 0x18, 0x00, 0xC0, 0x23, 0x82, 0x10, 0x04, 0x4C, 0x42, 0x7F, 0xFF, 0x20, 0x42, 0x1F, 0xF2, 0x44, 0x30, 0x00, 0x80, 0x25, 0x02, 0x12, 0x04, 0x40, 0x42, 0x7F, 0xFE, 0xBF, 0xC0, 0x10, 0x12, 0x44, 0x40, 0x41, 0xFF, 0x21, 0xFC, 0x17, 0x84, 0x40, 0x00, 0x60, 0x07, 0xA0, 0x20, 0x13, 0xC2, 0x44, 0x80, 0x71, 0x52, 0x61, 0x00, 0x10, 0x74, 0x00, 0x00, 0x7F, 0xFF, 0xA0, 0x20, 0x12, 0x42, 0x44, 0x00, 0x4A, 0x52, 0xB9, 0x00, 0x70, 0x0C, 0x00, 0x04, 0x76, 0x81, 0x80, 0x20, 0x12, 0x42, 0x44, 0x00, 0x44, 0x52, 0x25, 0xF0, 0x50, 0x04, 0x08, 0x8C, 0x76, 0xBC, 0x90, 0x04, 0xD2, 0x42, 0x47, 0xFE, 0x44, 0x7E, 0x23, 0x0C, 0x90, 0xE4, 0x19, 0x84, 0x76, 0xBD, 0x98, 0x0C, 0x33, 0xFC, 0x44, 0x01, 0x4A, 0x52, 0x21, 0x02, 0x13, 0x04, 0x08, 0x84, 0x00, 0x00, 0x16, 0x34, 0x0C, 0x00, 0x44, 0x02, 0x51, 0x52, 0x08, 0x49, 0x54, 0x04, 0x08, 0x84, 0x76, 0xBF, 0x81, 0xC0, 0x1A, 0x00, 0x44, 0x00, 0xE1, 0x52, 0x06, 0x48, 0xC0, 0x04, }; uchar code logo10[]={

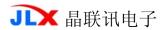
/*-- 调入了一幅图像: E:\WORK\记录文档\图片\12864 点阵图片\64X128(2).bmp --*/

/*-- 宽度 x 高度=128x64 --*/

0x00, 0x00, 0x60, 0x00, 0x1F, 0xFF, 0xC0, 0x00, 0x60, 0x00, 0x1F, 0xFF, 0xC0, 0x00, 0x000x00, 0x00, 0x60, 0x00, 0x1F, 0xFF, 0xC0, 0x00, 0x60, 0x00, 0x1F, 0xFF, 0xC0, 0x00, 0x60, 0x00, 0x1F, 0xFF, 0xC0, 0x00, 0x60, 0x00, 0x1F, 0xFF, 0xC0, 0x00, 0x60, 0x00, 0x1F, 0xFF, 0xC0, 0x00, 0x60, 0x00, 0x1F, 0xFF, 0xC0, 0x00, 0x60, 0x00, 0x1F, 0xFF, 0xC0, 0x00, 0x60, 0x00, 0x1F, 0xFF, 0xC0, 0x00, 0x60, 0x00, 0x1F, 0xFF, 0xC0, 0x00, 0x60, 0x00, 0x1F, 0xFF, 0xC0, 0x00, 0x00 $0x00,\,0x00,\,0x60,\,0x00,\,0x1F,\,0xFF,\,0xC0,\,0x00$ 0x00, 0x00, 0x60, 0x00, 0x1F, 0xFF, 0xC0, 0x00, 0x60, 0x00, 0x1F, 0xFF, 0xC0, 0x00, 0x60, 0x00, 0x1F, 0xFF, 0xC0, 0x00, 0x000x00, 0x00, 0x60, 0x00, 0x1F, 0xFF, 0xC0, 0x00, 0x12, 0x08, 0x60, 0x00, 0x1F, 0xFF, 0xC0, 0x00, 0x12, 0x08, 0x60, 0x00, 0x1F, 0xFF, 0xC0, 0x00, 0x000x17, 0xF8, 0x60, 0x00, 0x1F, 0xFF, 0xC0, 0x00, 0x12, 0xAF, 0x60, 0x00, 0x1F, 0xFF, 0xC0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3A, 0xA9, 0x60, 0x00, 0x1F, 0xFF, 0xC0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00. 0x17, 0xF8, 0x60, 0x00, 0x1F, 0xFF, 0xC0, 0x00, 0x12, 0xAA, 0x60, 0x00, 0x1F, 0xFF, 0xC0, 0x00, 0x12, 0xAC, 0x60, 0x00, 0x1F, 0xFF, 0xC0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x3B, 0xF8, 0x60, 0x00, 0x1F, 0xFF, 0xC0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x12, 0x08, 0x60, 0x00, 0x1F, 0xFF, 0xC0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,

0x10, 0xC0, 0x60, 0x00, 0x1F, 0xFF, 0xC0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x12, 0x3F, 0x60, 0x00, 0x1F, 0xFF, 0xC0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x14, 0xD0, 0x60, 0x00, 0x1F, 0xFF, 0xC0, 0x00, 0x000x01, 0x10, 0x60, 0x00, 0x1F, 0xFF, 0xC0, 0x00, 0x60, 0x10, 0x1F, 0xE0, 0xC0, 0x40, 0x00, 0xFC, 0x00, 0x02, 0x00, 0x08, 0x00, 0x00, 0x01, 0x20, 0x61, 0x10, 0xFB, 0xEF, 0x44, 0x40, 0x10, 0x82, 0x20, 0x02, 0x20, 0x18, 0x00, 0x00, 0x13, 0x7F, 0x62, 0x10, 0x30, 0x0B, 0x88, 0x40, 0x3E, 0x81, 0x7F, 0xFE, 0x20, 0x08, 0x00, 0x00, 0x31, 0x22, 0x62, 0x2F, 0x3B, 0xEB, 0x48, 0x7E, 0x11, 0x82, 0x22, 0x42, 0x20, 0x08, 0x00, 0x00, 0x11, 0x22, 0x65, 0x29, 0x3B, 0xEB, 0xD4, 0xA1, 0x10, 0x00, 0x22, 0x42, 0x3F, 0xF8, 0x00, 0x00, 0x1F, 0xE2, 0x60, 0xA9, 0x3B, 0xEB, 0xD2, 0xA2, 0x1F, 0xE0, 0x22, 0x42, 0x20, 0x08, 0x00, 0x00, 0x09, 0x22, 0x60, 0x49, 0x3A, 0x0B, 0xC1, 0x20, 0x10, 0x18, 0x3F, 0xFE, 0x20, 0x08, 0x00, 0x00, 0x09, 0x22, 0x60, 0x4F, 0x3B, 0xFB, 0xC1, 0x3F, 0x90, 0x04, 0x00, 0x02, 0x20, 0x08, 0x00, 0x00, 0x09, 0x3F, 0x60, 0xA9, 0x3E, 0x07, 0x42, 0xA0, 0x07, 0xE2, 0x0F, 0xC6, 0x08, 0x88, 0x00, 0x00, 0x01, 0x08, 0x65, 0x29, 0x3E, 0xFA, 0xD4, 0xA0, 0x04, 0x15, 0x08, 0x28, 0x04, 0x90, 0x00, 0x00, 0x00, 0x04, 0x62, 0x2F, 0xD0, 0xFD, 0xC8, 0x60, 0x3C, 0x08, 0x78, 0x10, 0xC6, 0x50, 0x00, 0x00, 0x09, 0xFE, 0x61, 0x10, 0x1E, 0x0A, 0xC4, 0x40, 0x07, 0xD4, 0x0F, 0xA8, 0x35, 0x48, 0x00, 0x00, $0x11, 0x00, 0x60, 0x90, 0x1E, 0xF7, 0x42, 0x20, 0x04, 0x22, 0x08, 0x44, 0x0C, 0xC8, 0x00, 0x00, \};$

```
void delayms (uint m)
{
      uint j;
      uint i;
      for(i=0; i<m; i++)
          for(j=0; j<110; j++)
              _nop_();
}
void waitkey()
{
repeat:
      if (key==1) goto repeat;
      else delayms (2000);
}
// IO Routine
void SdCmd (uchar Command)
   uchar i:
   transdata=Command;
   SCLK = 1:
   A0 = 0;
   _{CS} = 0;
   for (j=0; j<8; j++)
     {
```



```
SCLK=0; _nop_(); _nop_();
      SID=transbit;
      SCLK=1; _nop_(); _nop_();
      transdata=transdata<<1; _nop_(); _nop_();</pre>
      }
   _CS = 1;
}
void SdData(uchar DData)
   uchar j;
   transdata=DData;
   SCLK = 1;
   A0 = 1;
   _{CS} = 0;
   for(j=0;j<8;j++)
     {
      SCLK=0;
      SID=transbit;
      SCLK=1;
      transdata=transdata<<1;</pre>
      }
   _CS =1;
}
void MainADD (void)
                           // SET AY Add
    SdCmd(0x01);
    SdCmd(0xc0);
                           // SET AX Add
      SdCmd(0x00);
}
void ResetIC(void)
{
      _RST=1;
                               // hardware reset LCD module
    delayms(50);
      _RST=0;
      delayms (50);
      _RST=1;
      delayms (50);
}
void Check (uchar Ddata1, Ddata2)
  uint i, j;
```

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```
SdCmd(0x10);
    SdCmd (0x00);
    SdCmd(0xc0);
         for(i=0;i<64;i++)
     for(j=0;j<28;j++) //
     if(i%2==0)
         SdData(Ddata1);
         else
         SdData(Ddata2);
}
void WriteScreen(uchar *DisplayData)
{
     uchar i, j, k;
     for(i=0x10;i<0x14;i++)
     for(j=0;j<0x10;j++)
     SdCmd(i);
                              // H_byte AY ADD
     SdCmd(j);
                              // L_byte AY ADD
                               // SET AX Add
       SdCmd(0xc0);
            for (k=0; k<16; k++)
          SdData(*DisplayData++);
                }
}
// Init LCD module
void initLCDM(void)
///**************
// SET power
///*************
    SdCmd(0x2F);
                       // set power vc vr vf
///***********
// FSTN_set
```

```
// BIAS
     SdCmd (0x30);
   SdCmd(0xb1);
                     // SET CT
   SdCmd (0x60);
                             //VOP
                                     60
   SdCmd(0xb2);
   SdCmd(0xe3);
   SdCmd (0x01);
                 //*/
///************
// VA_set
///*************
         SdCmd(0x33);
                                 // BIAS
   SdCmd(0xb1);
                     // SET CT
   SdCmd(0xdF);
                             //VOP=12.5V,效果最佳
///************
///*************
// SET FR
//**********
     SdCmd(0xb2);
   SdCmd(0x90); //SdCmd(0xE3);
   SdCmd(0x01); //SdCmd(0x01);
                              //*/
///***********
// SET duty
///*************
   SdCmd(0xa4);
                     // SET duty
                      // SET duty
   SdCmd (0x90);
///*************
                      // SHL ADC EON REV =0
   SdCmd (0x68);
   SdCmd(0x3d);
                      // Set display on
}
void TestCMD(void)
  delayms (10);
 SdCmd(0x88);
  SdCmd (0x88);
  SdCmd (0x88);
 SdCmd (0x88);
  SdCmd (0x60);
  delayms(10);
  SdCmd(0xe3);
```

```
}
// Main Program
void main()
   //fc664a_init();
   ResetIC();
   initLCDM();
   TestCMD();
   while(1)
      {
           Check (0x00, 0x00); delayms (2000);
           WriteScreen(logo8);
           waitkey();
           WriteScreen(logo9);
           waitkey();
           WriteScreen(logo10);
           waitkey();
           WriteScreen(logo);
           waitkey();
           WriteScreen(logo2);
           waitkey();
           WriteScreen(logo3);
           waitkey();
           WriteScreen(logo4);
           waitkey();
           WriteScreen(logo5);
           waitkey();
           WriteScreen(logo6);
           waitkey();
           WriteScreen(logo7);
           waitkey();
           Check (0xFF, 0xFF);
    waitkey();
           Check (0xAA, 0x55);
           waitkey();
           Check (0x55, 0x55);
           waitkey();
```

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}

