深圳力先电子有限公司

液晶显示模块使用手册

型号: LX12864B11 系列

版本: 1.0

客户确认						
客户确认:		盖章				
客户建议:						

	编制	
拟制	确认	批准

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RECORD OF REVISION

Version	Revision Date	Contents	Editor
1.0	2014-08-28	New Release	YOU

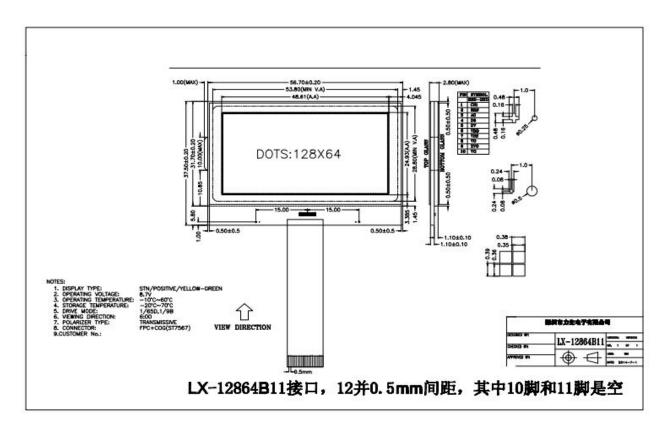
1. PHYSICAL DATA

Item	Contents	Unit
LCD type	STN/黄绿/正显	
LCD duty	1/64	
LCD bias	1/9	
Viewing direction	6	o'clock
Module size (W×H×T)	56.7×38.6×2.7	mm
Number of dots(W×H)	128 × 64	dots
Dot Size(W×H))	0.35×0.36	mm
Dot Pitch(W×H))	0.38×0.39	mm
工作温度	-10 °C +60°C	
存储温度	-20 °C +70°C	

Item	Contents	Unit	
背光电压	2.9V-3.1V		
背光电流	25ma35ma-		

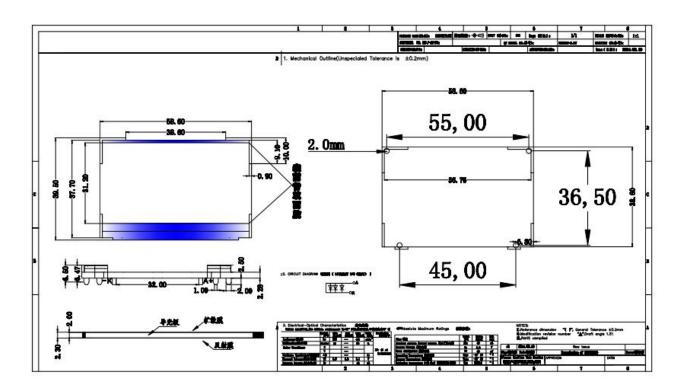
2.EXTERNAL

DIMENSIONS



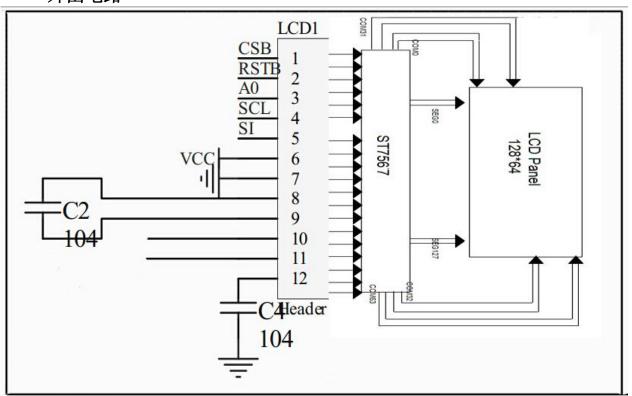
特别注明,按以上图看正面,右边为第一脚(CS)

背光结构图



3. BLOCK DIAGRAM

外围电路



注: 以上图外围电路原理串口

4. 以下引脚是并口和串口(SPI), LX-12864B11 以串口为准

PIN NO.	Symbol	Level	Description
1	NC		NC
2	CS	H/L	Chip select.
3	RES	H/L	Reset pin.
4	A0	H/L	A0="H": data. A0="L": Instruction command.
5	/WR		When Bus Mode is 6800, R/W=R/W When Bus Mode is 8080, R/W=/RW
6	/RD	H/L	When Bus Mode is 6800, E=E When Bus Mode is 8080, E =/RD
7	DB0		
8	DB1		
9	DB2		This is an 8-bit bi-directional data bus that connects to an 8-bit
10	DB3	H/L	or 16-bit standard MPU data bus.
11	DB4	H/L	When the serial interface (SPI-4) is selected (P/S = "L"): D7: serial data input (SI); D6: the serial clock input (SCL).
12	12 DB5		D0 to D5 should be connected to VDD or floating.
13	DB6 (SCL)		
14	DB7 (SI)		
15	VDD		Power supply.
16	VSS		Ground.
17	VOUT		Negative power for LCD.
18	C3+		DC/DC voltage converter. Connect a capacitor between this terminal and the CAP2N terminal.
19	C1+		DC/DC voltage converter. Connect a capacitor between this terminal and the CAP1N terminal.
20	C1-		DC/DC voltage converter. Connect a capacitor between this terminal and the CAP1P terminal.
			DC/DC violtage conviertor Convect a conscitor hative viti-
21	C2+		DC/DC voltage converter. Connect a capacitor between this terminal and the CAP1N terminal. Reset signal.
22	C2-		DC/DC voltage converter. Connect a capacitor between this terminal and the CAP2N terminal.
23~26	V1~V4		This is a multi-level power supply for the liquid crystal drive.
27	V0		Contrast adjustment input.
28	C86	H/L	C86 = "H": 6800 Series MPU interface. C86 = "L": 8080 Series MPU interface.
39	P/S	H/L	P/S = "H": Parallel data input/output. P/S = "L": Serial data input.
30	NC		NC

4. ABSOLUTE MAXIMUM RATINGS

(1)Electrical Absolute Ratings

Item	Symbol	Min.	Max.	Unit	Note
Power Supply for Logic	$V_{\mathrm{DD}}\text{-}V_{\mathrm{SS}}$	0	3.47	Volt	Note 1
Power Supply for LCD	V_{LCD}	0	13.0	Volt	
Input Voltage	V _I	0	$V_{ m DD}$	Volt	

Note 1: Operator should be grounded during handling LCM

(2) Environmental Absolute Maximum Ratings

	Normal Temperature				Wide Temperature				
Item	Operating		Storage		Operating		Storage		
	Min.	Max,	Min.	Max,	Min.	Max,	Min.	Max,	
Ambient Temperature	$0^{\circ}\!\mathbb{C}$	+50℃	-10°C	+60℃	-20°C	+70℃	-30°C	+80°C	
Humidity(without condensation)	Note 2,4		Note 3,5		Note 4,5		Note 4,6		

Note 2 Ta $\leq 50^{\circ}$ C: 80% RH max

Ta>50°C: Absolute humidity must be lower than the humidity of 85%RH at 50°C

Note 3 Ta at -20°C will be <48hrs at 70°C will be <120hrs when humidity is higher than 75%.

Note 4 Background color changes slightly depending on ambient temperature. This phenomenon is reversible.

Note 5 Ta $\leq 70^{\circ}$ C: 75RH max

Ta> 70° C: absolute humidity must be lower than the humidity of 75%RH at 70° C

Note 6 Ta at -20° C will be <48hrs, at 80 $^{\circ}$ C will be <120hrs when humidity is higher than 75%.

5. ELECTRICAL CHARACTERISTICS

DC Characteristics

 $(VDD=3.3V;VSS=0V; Ta=-20\sim70^{\circ}C)$

Item	Symbol	Condition	Min.	Тур.	Max.	Unit
Power Supply for Logic	V_{DD} - V_{SS}		3.14	3.3	3.47	Volt
Y XV 1:	$V_{\rm IL}$		VSS		0.2Vdd	Volt
Input Voltage	V _{IH}	V _{IL} VSS 0.2Vdd V _{IH} 0.8Vdd Vdd V _{OH} Iol=-0.5mA 0.8Vdd Vdd	Volt			
Outuat Valta	V_{OH}	IoL =-0.5mA	0.8Vdd		Vdd	Volt
Output Voltage	VDD-VSS 3.14 3.3 3.47 VIL VSS 0.2VDD VIH 0.8VDD VDD VOH IOL =-0.5mA 0.8VDD VDD	Volt				
LCM Recommend LCD Module	$V_{\rm LCD}$	$T_a = 0$ °C				Volt

LCD Module Specification⁷

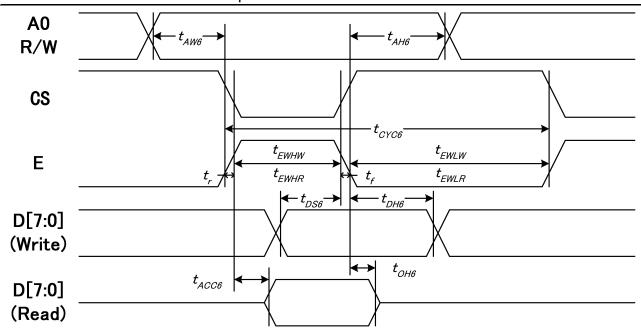
Lx-12864B11

Driving Voltage		$T_a = 25 ^{\circ} \! \text{C}$	9.15	9.35	9.6	
		$T_a = 50 ^{\circ} \! \mathrm{C}$				
Power Supply Current for LCM	I _{DD} (B/L OFF)				TBD	mA

AC Characteristics System Bus Timing for 6800 Series MPU

(VDD=3.3V, Ta=25°C)

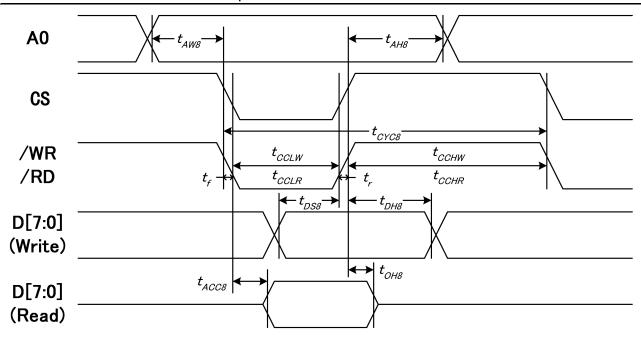
Item	Signal	Symbol	Condition	Min.	Max.	Unit
Address setup time	A0	tAW6		0	_	
Address hold time	AU	tAH6		0		
System cycle time		tCYC6		240	_	
Enable L pulse width (WRITE)		tEWLW		80	_	
Enable H pulse width (WRITE)	Е	tEWHW		80	_	
Enable L pulse width (READ)		tEWLR		80	_	ns
Enable H pulse width (READ)		tEWHR		80		
Write data setup time		tDS6		30		
Write data hold time	D[7.0]	tDH6		10		
Read data access time	D[7:0]	tACC6	CL = 100 pF	_	70	
Read data output disable time		tOH6	CL = 100 pF	10	50	



System Bus Timing for 8080 Series MPU

(VDD=3.3V, Ta=25°C)

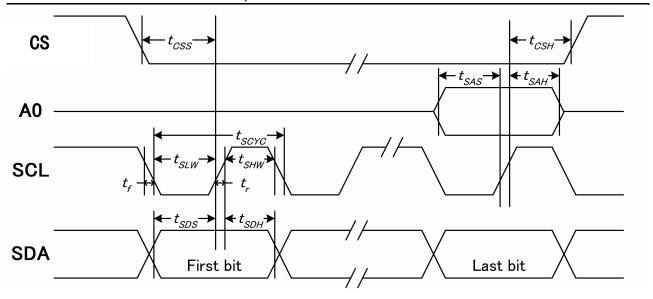
Item	Signal	Symbol	Condition	Min.	Max.	Unit
Address setup time	A0	tAW8		0		
Address hold time	AU	tAH8		0		
System cycle time		tCYC8		240	_	
/WR L pulse width (WRITE)	/WR	tCCLW		80	_	
/WR H pulse width (WRITE)		tCCHW		80	_	
/RD L pulse width (READ)	RD	tCCLR		80	_	ns
/RD H pulse width (READ)	KD	tCCHR		80		
WRITE Data setup time		tDS8		30	_	
WRITE Data hold time	D[7:0]	tDH8		10	_	
READ access time	D[7:0]	tACC8	CL = 100pF	_	70	
READ Output disable time		tOH8	CL = 100pF	5	50	



System Bus Timing for 4-Line Serial Interface

(VDD=3.3V, Ta=25°C)

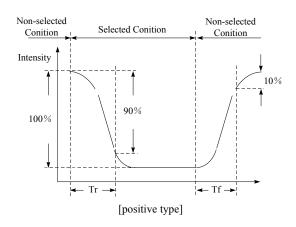
Item	Signal	Symbol	Condition	Min.	Max.	Unit
Serial clock period		tSCYC		50		
SCLK "H" pulse width	SCLK	tSHW		25		
SCLK "L" pulse width		tSLW		25		
Address setup time	A0	tSAS		20		
Address hold time		tSAH		10		ns
Data setup time	CDA	tSDS		20		
Data hold time	SDA	tSDH		10		
CS-SCLK time	CC	tCSS		20		
CS-SCLK time	CS	tCSH		40		

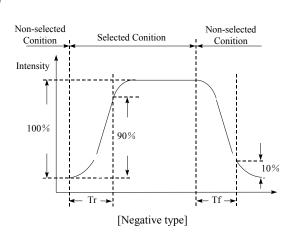


6. ELECTRO-OPTICAL CHARACTERISTICS

Item	Symbol	Condition	Min.	Тур.	Max.	Unit	note
Viewing angle range	$\theta_f(12 \text{ o'clock})$		35			Degree	Note 2 Note 3 Note 4
	θ_b (6 o'clock)	When Ca>2	30				
	$\theta_1(9 \text{ o'clock})$	When Cr≥2	30				
	θ_r (3 o'clock)		30	35			
Rise Time	$T_{\rm r}$			112		mS	Note 1
Fall Time	T_{f}	V_{DD} - V_0 =8.7V Ta =25°C		250		1115	Note 1
Contrast	Cr	1 20		5. 4			

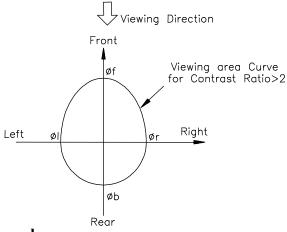
[Note 1] Definition of Response Time (Tr, Tf)



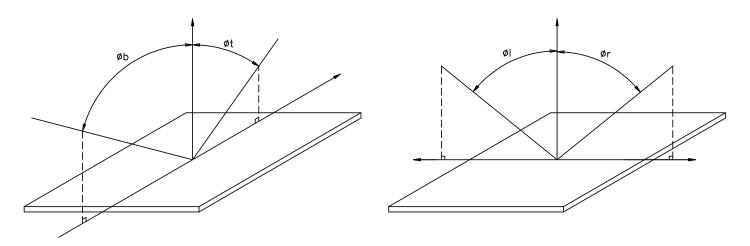


Conditions:

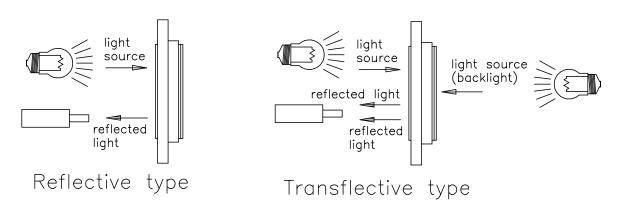
[Note 2] Definition of Viewing Direction



[Note 3] Definition of viewing angle



[Note 4] Description of Measuring Equipment



7. OPERATING PRINCIPLES & METHODS

	A0 R/\		COMMAND BYTE					5500515501			
INSTRUCTION		R/W	D7	D6	D5	D4	D3	D2	D1	D0	DESCRIPTION
(1) Display ON/OFF	0	0	1	0	1	0	1	1	1	D	D=1, display ON D=0, display OFF
(2) Set Start Line	0	0	0	1	S5	S4	S3	S2	S1	S0	Set display start line
(3) Set Page Address	0	0	1	0	1	1	Y3	Y2	Y1	Y0	Set page address
(4) Cat Caluman Address	0	0	0	0	0	1	X7	X6	X5	X4	Set column address (MSB)
(4) Set Column Address	0	0	0	0	0	0	Х3	X2	X1	X0	Set column address (LSB)
(5) Read Status	0	1	0	MX	D	RST	0	0	0	0	Read IC Status
(6) Write Data	1	0	D7	D6	D5	D4	D3	D2	D1	D0	Write display data to RAM
(7) Read Data	1	1	D7	D6	D5	D4	D3	D2	D1	D0	Read display data from RAM
(8) SEG Direction	0	0	1	0	1	0	0	0	0	MX	Set scan direction of SEG MX=1, reverse direction MX=0, normal direction
(9) Inverse Display	0	0	1	0	1	0	0	1	1	INV	INV =1, inverse display INV =0, normal display
(10) All Pixel ON	0	0	1	0	1	0	0	1	0	AP	AP=1, set all pixel ON AP=0, normal display
(11) Bias Select	0	0	1	0	1	0	0	0	1	BS	Select bias setting 0=1/9; 1=1/7
(12)Read-modify-Write	0	0	1	1	1	0	0	0	0	0	Column address increment: Read:+0 , Write:+1
(13) END	0	0	1	1	1	0	1	1	1	0	Exit Read-modify-Write mode
(14) RESET	0	0	1	1	1	0	0	0	1	0	Internal reset
(15) COM Direction	0	0	1	1	0	0	MY	-	-	-	Set output direction of COM MY=1, reverse direction MY=0, normal direction
(16) Power Control	0	0	0	0	1	0	1	VB	VR	VF	Control built-in power circuit ON/OFF
(17) Regulation Ratio	0	0	0	0	1	0	0	RR2	RR1	RR0	Select regulation resistor ratio
(18) Electronic volume mode set Electronic	0	0	1	0	0	0	0	0	0	1	Set the V0 output voltage
volume register set	0	0	0	0	EV5	EV4	EV3	EV2	EV1	EV0	electronic volume register
(19) Static indicator ON/OFF	0	0	1	0	1	0	1	1	0	0/1	0: OFF, 1: ON
Static indicator Register set	0	0	0	0	0	0	0	0	0	Mode	Set the flashing mode
(20) Page Blink	0	0	1	1	0	1	0	1	0	1	P7 - 0: 1 - blinking page
Page selection	0	0	P7	P6	P5	P4	P3	P2	P1	P0	0 - no blinking, normal display
(21). Driving Mode Set	0	0	1	1	0	1	0	0	1	0	Set the driving mode register
Mode selection	0	0	0	0	0	0	0	0	0	D0	Driving capability (D0): (1)>(0)
(22) Power Save	0	0	Compound Command		Display OFF + All Pixel ON						
(23) NOP	0	0	1	1	1	0	0	0	1	1	No operation
(24) Test	0	0	1	1	1	1	-	-	-	-	Do NOT use. Reserved for testing.
, ,	0	0	1	1	0	1	0	1	0	0	
(25) Oscillator Frequency selection	0	0	1	1	1	0	0	1	0	0/1	20KHz/33KHz (Default) 16.4KHz/ 27.06KHz

8. RELIABILITY

	Environmental Test							
No.	Test Item	Content of Test	Test Condition	Applicable Standard				
1	High temperature storage	Endurance test applying the high storage temperature for a long time.	80 °C 200 hrs					
2	Low temperature storage	Endurance test applying the low storage temperature for a long time.	-30 °C 200 hrs					
3	High temperature operation	Endurance test applying the electric stress (Voltage & Current) and the thermal stress to the element for a long time.	70 °C 200 hrs					
4	Low temperature operation	Endurance test applying the electric stress under low temperature for a long time.	-20 °C 200 hrs					
5	High temperature / Humidity storage	Endurance test applying the high temperature and high humidity storage for a long time.	70 °C , 90 %RH 96 hrs	MIL-202E-103B JIS-C5023				
6	High temperature / Humidity operation	Endurance test applying the electric stress (Voltage & Current) and temperature / humidity stress to the element for a long time.	50 °C , 90 %RH 96 hrs	MIL-202E-103B JIS-C5023				
7	Temperature cycle	Endurance test applying the low and high temperature cycle. -10°C \(\frac{25°C}{30min} \) \(\frac{25°C}{5min} \) \(\frac{25°C}{30min} \) 1 cycle	-10°C / 60°C 10 cycles					
	Mechanical Test							
8	Vibration test	Endurance test applying the vibration during transportation and using.	$10\sim22$ Hz → 1.5mmp-p $22\sim500$ Hz → 1.5G Total 0.5hrs	MIL-202E-201A JIS-C5025 JIS-C7022-A-10				
9	Shock test	Constructional and mechanical endurance test applying the shock during transportation.	50G half sign wave 11 msedc 3 times of each direction	MIL-202E-213B				
10	Atmospheric pressure test	Endurance test applying the atmospheric pressure during transportation by air.	115 mbar 40 hrs	MIL-202E-105C				
	Others							
11	Static electricity test Endurance test applying the electric stress to the terminal.		VS=800V , RS=1.5 kΩ CS=100 pF 10 time	MIL-883B-3015.1				

Inspection after test: Inspection after $2\sim4$ hours storage at room temperature, the sample shall be free from defects:

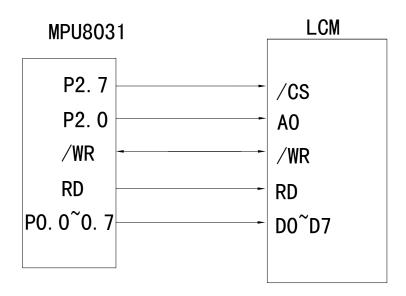
- 1. Air bubble in the LCD.
- 2. Sealleak
- 3. Non-display.
- 4. Missing segments.
- 5. Glass crack.
- 6. Current Idd is twice higher than initial value.

LCD Module Specification¹⁴ 9. QUALITY GUARANTEE

No	Item		Criteria					
		(1)round type						
		diameter mm(a*)	no of defect*					
		a ≤ 0.20	neglect					
		$0.20 < a \le 0.35$	5max					
1	inclusions (black spot,	0.35 < a	none					
1	white spot, dust)	(2)linear type						
		length mm(l)	width mm(W)	no. of defect				
		na	$W \leq 0.03$	neglect				
		1≦3	$0.03 < W \le 0.08$	6				
		3<1	0.08 < W	none				
		1.scratch on protective						
		2. scratch on polarizer s	hall be as follow:					
		(1)round type						
		diameter mm(a*)	no of defect					
2	scratch	a≤0.15	neglect					
		$0.15 < a \le 0.20$	2 max					
		0.20 < a	none					
		(2)linear type						
		be judged bye 1(2) lin	ear type					
3	dent	diameter < 1.5mm						
4	bubble	not exceeding 0.5mm a	verage diameter is accept	otable between glass				
		and polarizing film						
		$(a+b)/2 \le 0.15$ mm						
5	pin hole	maximum number: igno						
		$0.15 < (a+b)/2 \le 0.20$ mi	m					
		maximum number:10						
6	dot width	design width ±15%						
	dot defect	$(a+b)/2 \le 0.20$ mm	1					
_		maximum number: ignored						
7		$0.20 < (a+b)/2 \le 0.30$ m	m					
		maximum number:5						
		x=width	C 1 C 4					
		1	no of defect					
	contrast irregularity(spot)	$a \le 0.50 \text{mm}$	neglect					
8		$0.50 < a \le 0.75$	5					
		$0.75 < a \le 1.00$	3					
	14	1.00 < a	none					
9	color tone and uniformity	obvious uneven color is	s not permitted					

10. Interface circuit and driving programme on LCM of dots matrix series .

(1) Interface circuit:



串口测试程序(其它技术参数请参考 IC:ST7567)

```
#include <reg52.h>
#include <intrins.h>
#define LcmXPixel 128 //横向宽度
#define LcmYPixel 64 //纵向高度
#define MIN(A,B) ((A)<(B)?(A):(B))
#define Uchar unsigned char
#define Uint unsigned int
sbit CS = P3^0;
                         //片选
                        sbit CS = P3 0;

sbit SID = P3 1;

sbit SCK = P3 2;

sbit RS = P3 3;

sbit Key = P3 4;

sbit RES = P3 5;
Uchar code ASCIIchardot[];
Uchar code bmp1[];
Uchar code bmp2[];
Uchar code bmp3[];
Uchar code ComTable[]={3,2,1,0,7,6,5,4,};
//串口模式下只能写不能读,也不能查忙,因此用户要控制好速度不要太快void WriteCommand( Uchar CommandByte )
        Uchar i;
        CS=0;
RS=0;
                         //Command
        SCK=0:
                _nop_();
SCK=1;
void WriteData( Uchar DataByte )
        Uchar i;
        CS=0;
RS=1;
        RS=1; //Data
for(i=0;i<8;i++)
                SCK=1;
SID=( (DataByte>>>(7-i)) &0x01);
                SCK=0;
                _nop_();
SCK=1;
void DelayMS(unsigned int MS)
        unsigned char us, usn;
```

```
while(MS!=0)
                                     usn = 2:
                                                                          //for 12M
                                     while (usn!=0)
                                                       us=0xf6;
                                                        while (us!=0) \{us--;\};
                                                       usn--:
                                     MS--;
void DelayKey(unsigned int Second , unsigned int MS100)
                   unsigned int i;
                   for(i=0;i<Second*100+MS100*10;i++)
                                     if(Key==0)
                                                        DelayMS(20):
                                                        while (Key==0) {DelayMS(20);}
                                                       break;
                                     else DelayMS(10);
void LcmClear( Uchar FillData )
                  Uint i, j;
for(i=0;i<8;i++)
                                     //Set Page Address
                                     for (j=0; j<128; j++)
                                                       WriteData(FillData);
void LcmInit( void )
                                                                          //Display 0FF
//1/64 Duty 1/9 Bias
//ADC select SO->S131(玻璃设计用 S1-S128)
//com1 --> com64
//对某些模块没用,用的外部 Rb/Ra
//Sets V0
                  {\tt WriteCommand}(0{\tt xAE});
                   WriteCommand(0xA2):
                   WriteCommand(0xA0);
                   WriteCommand(0xC0);
                  WriteCommand(0x24);
WriteCommand(0x81);
                  WriteCommand(48);
WriteCommand(0x2F);
                                                                              //内部电位器调节对比度
                                                                           //รามาะนานสหพา PAJLUZ
//voltage follower ON regulator ON booster ON
//Normal Display (not reverse dispplay)
//Entire Display Disable
//Set Display Start Line = com0
//Set Page Address = 0
                  WriteCommand(0xA6);
WriteCommand(0xA4);
                  WriteCommand(0x40);
WriteCommand(0xB0);
                                                                           //Set Column Address 4 higher bits = 0
//Set Column Address 4 lower bits = 1 , from IC SEG1 -> SEG128
                   WriteCommand(0x10);
                   WriteCommand(0x01);
                  LcmClear(0);
WriteCommand(0xAF);
                                                                          //Display ON
//显示 ASICC 字符的函数
void LcmPutChar(Uchar col, Uchar page, Uchar Order)
                  Uchar i;
                  Uint x;
x = (0rder-0x20)*0x10;
                                                                                                                 //ASICC 字符从 0x20 开始, 每个 16 byte
                  \(\text{X} - \text{Offer-0x20} \notation_{\text{ANIO}}, \text{V/Asitc} \frac{1-41}{190} \text{Noz0} \frac{1}{190} \text{Rp} \quad \text{Filed by te} \\
\text{WriteCommand} \left( \text{(col+1)} \right) \text{Alo} \right) \text{Nox10}; \quad \text{/Set Column Address High Byte} \\
\text{WriteCommand} \left( \text{(col+1)} \right) \text{Nox0} \right); \quad \text{/Low Byte Column From S128} -> \text{S1 auto add} \\
\text{Alore Toler Ox200 \neq Nox10} \right) \text{Nox10} \\
\text{WriteCommand} \left( \text{(col+1)} \right) \text{Nox0} \right); \quad \text{/Low Byte Column From S128} -> \text{S1 auto add} \\
\text{Vices of S128} \right) \\
\text{Vices of S128} \rig
                   for(i=0;i<8;i++)
                                     WriteData( ASCIIchardot[x] );
                                                                                                               //下半字符 page+1
                  for (i=0:i<8:i++)
                                     \label{eq:writeData} \textit{WriteData(ASCIIchardot[x]);}
                                                                                                               //写完一个字符 page 还原
                  page--;
//显示字符串的函数
void LcmPutStr(Uchar col, Uchar page, Uchar *puts)
                   while(*puts != '\0')
                                                                                            //判断字符串时候显示完毕
                                      if(col>(LcmXPixe1-8))
                                                                                                                //判断行末空间是否足够放一个字符, 自动换行
```

```
page=page+2 co1=0;
                    if(page>(LcmYPixe1/8-2))
                                                         //到了屏幕最下角,自动返回左上角
                             page=0;
                   LcmPutChar(col, page, *puts);
                                               //下一个字符8列之后
                   co1=co1+8:
}
//显示 3 位数的数值(0-255)
void LcmPutNum(Uchar col, Uchar page, Uchar Num)
         Uchar a, b, c;
a=Num/100;
b=(Num%100)/10;
         c=Num%10;
if(a==0);
                             //也不写空格,直接跳过去//PutChar(col, page, 0x20);
            else LcmPutChar(col,page,a+0x30);
            f(a==0 && b==0) ; //也不写空格,直接跳过去//LcmPutChar(col,page,0x20);
else LcmPutChar(col+8,page,b+0x30);
         if(a==0 && b==0) :
         LcmPutChar(col+16, page, c+0x30);
void LcmPutBmp( Uchar *puts )
         Uchar i, i:
         Uint X=0;
          for (i=0; i \le (LcmYPixe1/8); i++)
                   \label{lem:witeCommand} $$ WriteCommand(0xB0|ComTable[i]); //Set Page Address $$ WriteCommand(0x10); //Set Column Address = 0 $$ WriteCommand(0x01); //Column from S1 -> S128 auto add $$ $$
                   for(j=0; j<LcmXPixe1; j++)
                             WriteData( puts[X] );
                             X++;
         }
void main( void )
         Uchar i;
Uchar contrast=48;
                                                         //对比度=48(根据我们常用的外部电阻参数来的)
         DelayMS(10);
         RES = 0:
         DelayMS(200);
         RES = 1:
         DelayMS(50);
         LcmInit():
          while(1)
                   LcmPutBmp(bmp1);
                   DelayKey(1,0);
                   for(i=(contrast-5);i<(contrast+5);i++)</pre>
                             WriteCommand(0x81); //Sets V0
WriteCommand(0x3F&i); //内部电位器调节对比度
LcmPutNum(10, 2, i);
                             DelayKey(0,1);
                   WriteCommand(0x81);
                   WriteCommand(contrast);
LcmPutNum(10, 2, contrast);
                                                          //恢复对比度
                   LcmClear(0xff);
                   DelayKey(1,0);
                   LcmClear(0);

LcmPutStr(0,0,"CA12864I2 Program");

LcmPutStr(0,2,"SunSon ELEC-TECH");

LcmPutStr(0,4,"TEL:755-29970110");

LcmPutStr(0,6,"By LJ 2009.04.08");

DelayKey(1,0);
/* ASICC 字库代码 8x16 点阵 */
unsigned char code ASCIIchardot[16*96] = {
/*-- 文字: --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16
0x00, 0x00,
/*-- 文字: ! --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16
0x00,\,0x00,\,0x0E,\,0x1F,\,0x1F,\,0x0E,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0xB0,\,0xB0,\,0xB0,\,0x00,\,0x00,\,0x00,
```

```
/*-- 文字: # --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x04, 0x1F, 0x1F, 0x04, 0x1F, 0x04, 0x00, 0x40, 0xF0, 0xF0, 0xF0, 0xF0, 0x40,
/*-- 文字: $ --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x0c, 0x1E, 0x73, 0x71, 0x18, 0x08, 0x00, 0x00, 0x20, 0x30, 0x1C, 0x9C, 0xF0, 0x60, 0x00,
/*-- 文字: % --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x18, 0x3C, 0x24, 0x3D, 0x1B, 0x06, 0x0C, 0x00, 0x00, 0x60, 0xC0, 0xB0, 0x78, 0x48, 0x78, 0x30,
/*-- 文字: & --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x0D, 0x1F, 0x12, 0x1E, 0x0C, 0x00, 0x00, 0x00, 0xE0, 0xF0, 0x10, 0x90, 0xE0, 0xF0, 0x90,
/*- 文字: ' -*/
/*- Fixedsys12: 此字体下对应的点阵为: 宽 x 高-8x16 -*/
0x00, 0x00, 0x00, 0x1C, 0x1C, 0x00, 0x00,
/*- 文字: ( -*/
/*- Fixedsys12: 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x00, 0x03, 0x0F, 0x1C, 0x10, 0x00, 0x00, 0x00, 0x00, 0xE0, 0xF8, 0x1C, 0x04, 0x00, 0x00,
/*- 文字: ) -*/
/*- Fixedsys12: 此字体下对应的点阵为: 宽 x 高-8x16 -*/
0x00, 0x00, 0x10, 0x1C, 0x0F, 0x03, 0x00, 0x00, 0x00, 0x04, 0x1C, 0xF8, 0xE0, 0x00, 0x00,
/*-- 文字: * --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x01, 0x05, 0x07, 0x03, 0x07, 0x05, 0x01, 0x00, 0x00, 0x40, 0x00, 0x00
/*-- 文字: + --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高-8x16 --*/
0x00, 0x01, 0x01, 0x07, 0x07, 0x01, 0x01, 0x00, 0x00,
/*- 文字: , -*/
/*- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 -*/
0x00, 0x04, 0x36, 0x38, 0x00, 0x00,
/*- 文字: - -*/
/*- Fixedsys12; 此字体下对应的点阵为: 宽 x 高-8x16 --*/
0x00, 0x01, 0x01, 0x01, 0x01, 0x01, 0x01, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
/*-- 文字: . --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高-8x16 --*/
0x00, 0x30, 0x30, 0x30, 0x00, 0x00,
/*-- 文字: / --*/
/*-- Fixedsys12: 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x00, 0x00, 0x01, 0x07, 0x1E, 0x18, 0x00, 0x00, 0x18, 0x78, 0xE0, 0x80, 0x00, 0x00, 0x00,
/*-- 文字: 0 --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x00, 0x0F, 0x1F, 0x10, 0x16, 0x1F, 0x0F, 0x00, 0x00, 0xE0, 0xF0, 0xD0, 0x10, 0xF0, 0xE0,
/*-- 文字: 1 -*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高-8x16 -*/
0x00, 0x04, 0x04, 0x06, 0x1F, 0x1F, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xF0, 0xF0, 0x00, 0x00,
/*- 文字: 2 --*/
/*- Fixedsys12; 此字体下对应的点阵为: 宽 x 高-8x16 --*/
0x00, 0x0C, 0x1C, 0x10, 0x11, 0x1F, 0x0E, 0x00, 0x00, 0x30, 0x70, 0x00, 0x90, 0x10, 0x10, 0x00,
/*- 文字: 3 -*/
/*- Fixedsys12: 此字体下对应的点阵为: 宽 x 高-8x16 -*/
0x00, 0x0C, 0x1C, 0x11, 0x11, 0x1F, 0x0E, 0x00, 0x00, 0x60, 0x70, 0x10, 0x10, 0xF0, 0xE0, 0x00,
/*- 文字: 4 -*/
/*- Fixedsys12: 此字体下对应的点阵为: 宽 x 高-8x16 -*/
0x00, 0x00, 0x1F, 0x1F, 0x00, 0x07, 0x07, 0x00, 0x00, 0xC0, 0xC0, 0x40, 0x40, 0xF0, 0xF0, 0x40,
/*- 文字: 5 --*/
/*- Fixedsys12; 此字体下对应的点阵为: 宽 x 高-8x16 --*/
0x00, 0x1F, 0x1F, 0x11, 0x11, 0x11, 0x10, 0x00, 0x00, 0x10, 0x10, 0x30, 0xE0, 0xC0, 0x00,
/*-- 文字: 6 --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x03, 0x07, 0x1E, 0x1A, 0x13, 0x01, 0x00, 0x00, 0xE0, 0xF0, 0x10, 0x10, 0xF0, 0xE0, 0x00,
/*- 文字: 7 -*/
/*- Fixedsys12: 此字体下对应的点阵为: 宽 x 高-8x16 -*/
0x00, 0x10, 0x10, 0x11, 0x17, 0x1E, 0x18, 0x00, 0x00, 0x00, 0x70, 0x70, 0x80, 0x00, 0x00, 0x00,
/*-- 文字: 8 --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x0E, 0x1F, 0x13, 0x11, 0x1F, 0x0E, 0x00, 0x00, 0xE0, 0xF0, 0x10, 0x90, 0xF0, 0x00,
/*- 文字: 9 --*/
/*- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x0F, 0x1F, 0x10, 0x1F, 0x0F, 0x00, 0x00, 0x00, 0x90, 0x80, 0xF0, 0xF0, 0x80, 0x00,
/*- 文字:: -*/
/*- Fixedsys12: 此字体下对应的点阵为:宽x高-8x16 -*/
0x00, 0x00, 0x00, 0x06, 0x06, 0x06, 0x00, 0x00, 0x00, 0x00, 0x00, 0x30, 0x30, 0x30, 0x00, 0x00,
/*- 乂子:; -*/
/*-- Fixedsys12; 此字体下对应的点阵为:宽 x 高=8x16 -*/
0x00, 0x00, 0x00, 0x06, 0x06, 0x06, 0x00, 0x00, 0x00, 0x00, 0x00, 0x34, 0x3C, 0x38, 0x00, 0x00,
```

/*-- 文字: 〈 --*/

```
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x01, 0x03, 0x06, 0x0C, 0x18, 0x10, 0x00, 0x00, 0x00, 0x80, 0xC0, 0x60, 0x30, 0x10, 0x00,
 /*-- 文字: = --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x02, 0x02, 0x02, 0x02, 0x02, 0x02, 0x00, 0x00, 0x80, 0x80
 /*- 文字: 〉 -*/
/*- Fixedsys12: 此字体下对应的点阵为: 宽 x 高-8x16 -*/
0x00, 0x10, 0x18, 0x0C, 0x06, 0x03, 0x01, 0x00, 0x00, 0x10, 0x30, 0x60, 0xC0, 0x80, 0x00, 0x00,
 /*-- 文字: ? --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x0C, 0x1C, 0x11, 0x13, 0x1E, 0x0C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x80, 0x80, 0x80, 0x00, 0x00,
 /*- 文字: @ --*/
/*- Fixedsys12; 此字体下对应的点阵为: 宽 x 高-8x16 --*/
0x0F, 0x1F, 0x10, 0x11, 0x13, 0x12, 0x1F, 0x0F, 0xE0, 0xF0, 0x10, 0x90, 0xD0, 0xD0, 0xD0,
 /*-- 文字: A --*/
/*-- Fixedsys12; 此字体下对应的点阵为; 宽 x 高-8x16 --*/
0x00, 0x07, 0x0F, 0x18, 0x18, 0x0F, 0x07, 0x00, 0xF0, 0xF0, 0x80, 0x80, 0xF0, 0xF0, 0x00,
 /*-- 文字: B --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x1F, 0x1F, 0x11, 0x11, 0x1F, 0x0E, 0x00, 0x00, 0xF0, 0xF0, 0x10, 0x10, 0xF0, 0xE0, 0x00,
 /*- 文字: C --*/
/*- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x0F, 0x1F, 0x10, 0x10, 0x10, 0x00, 0x00, 0x00, 0xE0, 0xF0, 0x10, 0x10, 0x60, 0x00,
 /*- 文字: D -*/
/*- Fixedsys12: 此字体下对应的点阵为: 宽 x 高-8x16 -*/
0x00, 0x1F, 0x1F, 0x10, 0x18, 0x0F, 0x07, 0x00, 0x00, 0xF0, 0xF0, 0x10, 0x30, 0xE0, 0xC0, 0x00,
 /*-- 文字: E --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x1F, 0x1F, 0x11, 0x11, 0x11, 0x10, 0x00, 0x00, 0xF0, 0xF0, 0x10, 0x10, 0x10, 0x10, 0x00,
 /*-- 文字: F --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x1F, 0x1F, 0x11, 0x11, 0x11, 0x10, 0x00, 0x00, 0xF0, 0xF0, 0x00, 0x00, 0x00, 0x00, 0x00,
 /*- 文字: G --*/
/*- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x0F, 0x1F, 0x10, 0x10, 0x10, 0x0C, 0x00, 0x00, 0xE0, 0xF0, 0x10, 0x90, 0xF0, 0x00,
 /*- 文字: H --*/
/*- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x1F, 0x1F, 0x01, 0x01, 0x1F, 0x1F, 0x00, 0x00, 0xF0, 0xF0, 0x00, 0x00, 0xF0, 0xF0, 0x00, 0xF0, 
 /*-- 文字: I --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高-8x16 --*/
0x00, 0x00, 0x10, 0x1F, 0x1F, 0x10, 0x00, 0x00, 0x00, 0x10, 0xF0, 0xF0, 0x10, 0x00, 0x00,
 /*- 文字: J --*/
/*- Fixedsys12: 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x00, 0x00, 0x00, 0x00, 0x1F, 0x1F, 0x00, 0x00, 0x60, 0x70, 0x10, 0x10, 0xF0, 0xE0, 0x00,
/*-- 文字: K --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x1F, 0x1F, 0x01, 0x07, 0x1E, 0x18, 0x00, 0x00, 0xF0, 0xF0, 0x00, 0xC0, 0xF0, 0x30, 0x00,
/*-- 文字: L --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高-8x16 --*/
0x00, 0x1F, 0x1F, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xF0, 0xF0, 0x10, 0x10, 0x10, 0x10, 0x00,
 /*- 文字: M -*/
/*- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 -*/
0x00, 0x1F, 0x1F, 0x04, 0x03, 0x04, 0x1F, 0x1F, 0x00, 0xF0, 0xF0, 0x00, 0x80, 0x00, 0xF0, 0xF0,
 /*-- 文字: N --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x1F, 0x1F, 0x06, 0x03, 0x01, 0x1F, 0x1F, 0x00, 0xF0, 0xF0, 0x00, 0x00, 0x80, 0xF0, 0xF0,
 /*- 文字: 0 --*/
/*- Fixedsys12; 此字体下对应的点阵为: 宽 x 高-8x16 --*/
0x00, 0x0F, 0x1F, 0x10, 0x1F, 0x0F, 0x00, 0x00, 0xE0, 0xF0, 0x10, 0x10, 0xE0, 0x00,
 /*- 文字: P --*/
/*- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x1F, 0x1F, 0x11, 0x1F, 0x0E, 0x00, 0x00, 0xF0, 0xF0, 0x00, 
 /*-- 文字: Q --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x0F, 0x1F, 0x10, 0x10, 0x1F, 0x0F, 0x00, 0x00, 0xE0, 0xF0, 0x10, 0x18, 0xFC, 0xE4, 0x00,
 /*- 文字: R -*/
/*- Fixedsys12: 此字体下对应的点阵为; 宽 x 高-8x16 -*/
0x00, 0x1F, 0x1F, 0x11, 0x11, 0x1F, 0x0E, 0x00, 0x00, 0xF0, 0xF0, 0x00, 0xF0, 0xF0, 0x70, 0x00,
 /*-- 文字: S --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高-8x16 --*/
0x00, 0x0C, 0x1E, 0x13, 0x11, 0x18, 0x08, 0x00, 0x00, 0x20, 0x30, 0x10, 0x90, 0x60, 0x00,
 /*-- 文字: T --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x10, 0x10, 0x1F, 0x1F, 0x10, 0x10, 0x00, 0x00, 0x00, 0x00, 0xF0, 0xF0, 0x00, 0x00, 0x00,
    /*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
```

```
0x00, 0x1F, 0x1F, 0x00, 0x00, 0x1F, 0x1F, 0x00, 0x00, 0xE0, 0xF0, 0x10, 0x10, 0xF0, 0xE0. 0x00.
/*-- 文字: V --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高-8x16 --*/
0x00, 0x1F, 0x1F, 0x00, 0x00, 0x1F, 0x1F, 0x00, 0x00, 0x00, 0xC0, 0x80, 0x30, 0x30, 0x80, 0xC0, 0x00,
 /*-- 文字: W --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x1F, 0x1F, 0x00, 0x03, 0x00, 0x1F, 0x1F, 0x00, 0x80, 0xF0, 0xF0, 0xF0, 0x80,
 /*- 文字: X --*/
/*- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x18, 0x1C, 0x07, 0x03, 0x1C, 0x18, 0x00, 0x00, 0x70, 0xF0, 0x00, 0x70, 0x00, 0x70, 0x00,
 /*-- 文字: Y --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x1E, 0x1F, 0x01, 0x01, 0x1F, 0x1E, 0x00, 0x00, 0x00, 0x00, 0x00, 0xF0, 0xF0, 0x00, 0x00, 0x00,
 /*- 文字: Z --*/
/*- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x10, 0x11, 0x13, 0x1E, 0x1C, 0x00, 0x00, 0x70, 0xF0, 0x90, 0x10, 0x10, 0x10, 0x00,
 /*-- 文字: [ --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x00, 0x1F, 0x1F, 0x10, 0x10, 0x00, 0x00, 0x00, 0x00, 0xFE, 0xFE, 0x02, 0x02, 0x00, 0x00,
 /*-- 文字: \ --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x18, 0x1E, 0x07, 0x01, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x80, 0xE0, 0x78, 0x18, 0x00,
 /*-- 文字: ] --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高-8x16 --*/
0x00, 0x00, 0x10, 0x10, 0x1F, 0x1F, 0x00, 0x00, 0x00, 0x00, 0x02, 0x02, 0xFE, 0xFE, 0x00, 0x00,
 /*-- 文字: ^ -*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x10, 0x30, 0x60, 0x60, 0x30, 0x10, 0x00, 0x00,
 /*- 文字: _ -*/
/*- Fixedsys12; 此字体下对应的点阵为: 宽 x 高-8x16 -*/
0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0x
 /*-- 文字: ` -*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x00, 0x40, 0x60, 0x70, 0x10, 0x00, 0x00,
 /*-- 文字: a --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高-8x16 --*/
0x00, 0x00, 0x04, 0x04, 0x04, 0x07, 0x03, 0x00, 0x00, 0x60, 0xF0, 0x90, 0xF0, 0xF0, 0x00,
 /*-- 文字: b --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x1F, 0x1F, 0x04, 0x04, 0x07, 0x03, 0x00, 0x00, 0xF0, 0xF0, 0x10, 0x10, 0xF0, 0xE0, 0x00,
 /*-- 文字: c --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高-8x16 --*/
0x00, 0x03, 0x07, 0x04, 0x04, 0x06, 0x02, 0x00, 0x00, 0xE0, 0xF0, 0x10, 0x10, 0x30, 0x20, 0x00,
 /*-- 文字: d --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x03, 0x07, 0x04, 0x04, 0x1F, 0x1F, 0x00, 0x00, 0xE0, 0xF0, 0x10, 0x10, 0xF0, 0xF0, 0x00,
 /*-- 文字: e --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x03, 0x07, 0x04, 0x04, 0x07, 0x03, 0x00, 0x00, 0xE0, 0xF0, 0x90, 0x90, 0x90, 0x80, 0x00,
 /*-- 文字: f --*/
/*-- Pixedsys12; 此字体下对应的点阵为: 宽 x 高-8x16 --*/
0x00, 0x01, 0x0F, 0x1F, 0x11, 0x11, 0x11, 0x00, 0x00, 0x00, 0xF0, 0xF0, 0x00, 0x00, 0x00, 0x00,
 /*-- 文字: g -*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 -*/
0x00, 0x03, 0x07, 0x04, 0x04, 0x07, 0x07, 0x00, 0x00, 0xE2, 0xF2, 0x12, 0x12, 0xFE, 0xFC, 0x00,
 /*- 文字: h --*/
/*- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x1F, 0x1F, 0x04, 0x04, 0x07, 0x03, 0x00, 0x00, 0xF0, 0xF0, 0x00, 0x00, 0xF0, 0xF0, 0x00, 0xF0, 
 /*-- 文字: i --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x04, 0x04, 0x37, 0x37, 0x00, 0x00, 0x00, 0x00, 0x10, 0x10, 0xF0, 0xF0, 0x10, 0x10, 0x00,
 /*- 文字: j -*/
/*- Fixedsys12; 此字体下对应的点阵为: 宽 x 高-8x16 -*/
0x00, 0x00, 0x04, 0x04, 0x37, 0x37, 0x00, 0x00, 0x00, 0x02, 0x02, 0x02, 0xFE, 0xFC, 0x00, 0x00,
 /*- 文字: k --*/
/*- Fixedsys12: 此字体下对应的点阵为: 宽 x 高-8x16 --*/
0x00, 0x1F, 0x1F, 0x00, 0x01, 0x07, 0x06, 0x00, 0x00, 0xF0, 0xF0, 0x80, 0xC0, 0x70, 0x30, 0x00,
/*-- 文字: 1 --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x10, 0x10, 0x1F, 0x1F, 0x00, 0x00, 0x00, 0x00, 0x10, 0x10, 0xF0, 0xF0, 0xF0, 0x10, 0x00,
 /*- 文字: m --*/
/*- Fixedsys12; 此字体下对应的点阵为: 宽 x 高-8x16 --*/
0x00, 0x07, 0x07, 0x04, 0x07, 0x04, 0x07, 0x03, 0x00, 0xF0, 0xF0, 0x00, 0xE0, 0x00, 0xF0, 0xF0,
  /*-- 文字: n --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x07, 0x07, 0x04, 0x04, 0x07, 0x03, 0x00, 0x00, 0xF0, 0xF0, 0x00, 0x00, 0xF0, 0xF0, 0x00,
```

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/*-- 文字: o --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x03, 0x07, 0x04, 0x04, 0x07, 0x03, 0x00, 0x00, 0xE0, 0xF0, 0x10, 0x10, 0xF0, 0xE0, 0x00,
  /*-- 文字: p --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x07, 0x07, 0x04, 0x04, 0x04, 0x07, 0x03, 0x00, 0x00, 0xFE, 0xFE, 0x10, 0x10, 0xF0, 0xE0, 0x00,
  /*-- 文字: q --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x03, 0x07, 0x04, 0x04, 0x07, 0x07, 0x00, 0x00, 0xE0, 0xF0, 0x10, 0x10, 0xFE, 0xFE, 0x00,
  /*- 文字: r -*/
/*- Fixedsys12: 此字体下对应的点阵为: 宽 x 高-8x16 -*/
0x00, 0x07, 0x07, 0x01, 0x02, 0x06, 0x06, 0x00, 0x00, 0xF0, 0xF0, 0x00, 0x00, 0x00, 0x00, 0x00,
  /*-- 文字: s --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高-8x16 --*/
0x00, 0x03, 0x07, 0x04, 0x04, 0x04, 0x04, 0x00, 0x00, 0x10, 0x90, 0x90, 0x90, 0x60, 0x00,
  /*-- 文字: t --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x04, 0x1F, 0x1F, 0x04, 0x04, 0x04, 0x00, 0x00, 0x00, 0xE0, 0xF0, 0x10, 0x10, 0x10, 0x00,
  /*-- 文字: u --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x07, 0x07, 0x00, 0x00, 0x07, 0x07, 0x00, 0x00, 0xE0, 0xF0, 0x10, 0x10, 0xF0, 0xF0, 0x00,
  /*-- 文字: v --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x07, 0x07, 0x00, 0x00, 0x07, 0x07, 0x00, 0x00
  /*- 文字: w --*/
/*- Fixedsys12; 此字体下对应的点阵为: 宽 x 高-8x16 --*/
0x00, 0x07, 0x07, 0x00, 0x03, 0x00, 0x07, 0x07, 0x00, 0xC0, 0xF0, 0x30, 0xC0, 0xF0, 0xC0,
  /*-- 文字: x --*/
/*-- Fixedsys12: 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x06, 0x07, 0x01, 0x01, 0x07, 0x06, 0x00, 0x00, 0x30, 0x70, 0xC0, 0xC0, 0x70, 0x30, 0x00,
  /*-- 文字: y --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x07, 0x07, 0x00, 0x00, 0x07, 0x07, 0x07, 0x00, 0x02, 0xE2, 0xF2, 0x16, 0x1C, 0xF8, 0xE0, 0x00,
  /*-- 文字: z --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x04, 0x04, 0x04, 0x05, 0x07, 0x06, 0x00, 0x00, 0x30, 0x70, 0x00, 0x90, 0x10, 0x10, 0x00,
  /*- 文字: { -*/
/*- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 -*/
0x00, 0x00, 0x01, 0x0F, 0x1E, 0x10, 0x00, 0x00, 0x00, 0x80, 0xC0, 0x78, 0x3C, 0x04, 0x00, 0x00,
/*- 文字: } -*/
/*- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 -*/
0x00, 0x00, 0x10, 0x1E, 0x0F, 0x01, 0x00, 0x00, 0x00, 0x04, 0x3C, 0x78, 0xC0, 0x80, 0x00,
/*-- 文字: ~ --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x0C, 0x18, 0x10, 0x18, 0x0C, 0x04, 0x0C, 0x18, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
      /*-- 又丁. "/
/*-- Fixedsys12; 此字体下对应的点阵为:宽 x 高=8x16 --*/
    0x00, 0x1F, 0x1F, 0x1F, 0x1F, 0x1F, 0x0F, 0x00, 0x00, 0xF0, 0xF0, 0xF0, 0xF0, 0xF0, 0xF0, 0xF0, 0x00,
0xA0, 
  0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 
  0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0,\,0xA0
  0xFF, 0x00, 0xFF, 0x00, 0x7F, 0x40, 0x5F, 0x4F, 0x5F, 0x5F, 0x5E, 0x5C, 0x58, 0x58, 0x50, 
  \begin{array}{l} 0x5C,\ 0x5E,\ 0x5F,\ 0x5F,\ 0x5F,\ 0x5F,\ 0x5F,\ 0x5F,\ 0x5F,\ 0x5F,\ 0x4A,\ 0x55,\ 0x4A,\ 0x
0x44, 0x55, 0x44, 0x54, 0x54, 0x49, 0x45, 0x45, 0x45, 0x42, 0x40, 0x40, 0x40, 0x40, 0x40, 0x40, 0x40, 0x41, 0x44, 0x45, 0x42, 0x42, 0x42, 0x42, 0x45, 0x55, 0x44, 0x55, 0x46, 0x50, 0x50, 0x44, 0x55, 0x44, 0x55, 0x44, 0x55, 0x44, 0x55, 0x46, 0x50, 0x60, 0x00, 
  \begin{array}{l} 0xFF,\,0x00,\,0xFF,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0xFF,\,0x00,\,0xFF,\,0xE0,\\ 0x80,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\\ \end{array}
0x00, 0x00, 0x00, 0x00, 0x80, 0xE0, 0xFF, 0x00, 0x00, 0xFF, 0x00, 0x00, 0x00, 0x00, 0x55, 0xAA, 0x55, 0xAA, 0x55, 0xAA, 0x55, 0xAA, 0x55, 0xED, 0x00, 0x02, 0x05, 0xFA, 0x04, 0x58, 0x52, 0xFD, 0x00, 0xFF, 0x00, 0x00, 0x00, 0x00, 0xFF, 0x00, 0xFF, 0x00, 0x14, 
  0x25, 0x05, 0xA2, 0x50, 0xB8, 0x7C, 0x9E, 0x7D, 0xBA, 0x55, 0xAA, 0xD5, 0xEA, 0xF5, 0x00, 0xFF, 0x00, 0xFF, 0x00, 0xFF,
  0x8F, 0x00, 0xFF, 0x00, 0xFF, 0x1F, 0x07, 0x03, 0x01, 0x00, 0x01, 0x03, 0x07, 0x1F, 0xFF, 
    0xAB, 0x55, 0xAA, 0x55, 0x2A, 0x15, 0x2A, 0x15, 0x2A, 0x15, 0xAA, 0x14, 0x08, 0x00, 0x00, 0x02,
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\begin{array}{l} 0x05,\,0x85,\,0x0A,\,0x1E,\,0x20,\,0x1D,\,0x95,\,0x8B,\,0x84,\,0x00,\,0x00,\,0x00,\,0x01,\,0x82,\,0x0C,\,0x12\\ 0x0E,\,0x02,\,0x1D,\,0x21,\,0x1D,\,0x84,\,0x03,\,0x00,\,0x00,\,0x00,\,0x81,\,0x00,\,0x05,\,0x0A,\,0x05,\,0x02\\ \end{array}
     0x01, 0x04, 0x04, 0x04, 0x00, 0x00, 0x00, 0x05, 0x44, 0x55, 0x54, 0x55, 0x54
     \begin{array}{l} 0xFF,\,0x00,\,0xFF,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0xFF,\,0x00,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,
0xF7, 0xFF, 0xFF, 0xFE, 0xFD, 0xFD, 0xFD, 0xFD, 0xFD, 0xFE, 0xFF, 
     0xE8, 0xA9, 0x50, 0x21, 0x00, 0x01, 0x02, 0x55, 0xAA, 0x55, 0xAA, 0x55, 0xAB, 0x57, 0x00, 0xFF, 0x00, 0xFF, 0xFF, 0x00, 0xFF, 0xFF
     0xFF, 0x00, 0xFF, 0x00, 0xFF, 0x00, 0xF9, 0xF6, 0xFB, 0xF6, 0xF9, 0xFF, 0x0B, 0x1F, 0x3F, 0x7F, 0xFF, 
0xFb, 0xFe, 0xFe, 0xFe, 0xFf, 0xBF, 0xBF, 0xFe, 0xFf, 
     \begin{array}{l} 0 \times FD, \ 0 \times TE, \ 0 \times ED, \ 0 \times TD, \ 0 \times FE, \ 0 \times TF, \ 0 \times FF, \ 0 \times TF, \ 0 \times FF, \
     0xFF, 0x00, 0xFF, 0x00, 0xFC, 0x04, 0xF4, 0xF4, 0xF4, 0xD4, 0xD4, 0xF4, 
0xr4, 
     \begin{array}{l} 0xFF,\,0x01,\,0xFD,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,\,0x05,
           0x05, 0x05
     0x05, 
           0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05, 0x05
           0x05 \ 
           0x05, 0x05,
```

```
Uchar code bmp3[]=
                                                                            调入了一幅图像: E:\!Program\MobilePhone3.bmp --*/
                                                                               宽度 x 高度=128x64 --*/
0xFF, 
     0x07, 0x3F, 0xFC, 0xE0, 0xC0, 0x00, 0x40, 0xE0, 0xF0, 0xFC, 0x3E, 0x0F, 0x01, 0x01, 0x03, 0x07,
     0x07, 0x0F, 0x0F, 0x0F, 0x0E, 0x1E, 0x1E, 0x9C, 0x9E, 0x9C, 0xDC, 0xD8, 0xD8, 0xCC, 0xC0, 0x80,
     0x80, 0xC0, 0xF0, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xF8, 0xC0, 0x9C, 0x24, 0x43, 0x40, 0x20, 0x1C,
     0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x28,\,0x24,\,0x22,\,0x21,\,0x21,\,0x22,\,0x21,\,0x22,\,0x21,\,0x22,\,0x21,\,0x22,\,0x21,\,0x22,\,0x21,\,0x22,\,0x21,\,0x22,\,0x21,\,0x22,\,0x21,\,0x22,\,0x21,\,0x22,\,0x22,\,0x21,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22,\,0x22
0x26, 0x38, 0x04, 0x18, 0xF0, 0x17, 0x10, 0x10, 0x14, 0x18, 0x10, 0x00, 0x00, 0x00, 0x00, 0x00, 0xFF, 
     0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFE, 0xFE, 0xFE, 0xFE, 0xFE, 0xFB, 0xF3, 0xD1, 0xFB, 0x79, 0x78,
     0x7F, 0xFF, 0x7F, 0x7F, 0x3F, 0x3F, 0x3F,
     0x9F, 0xCF, 0x67, 0x13, 0x13, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x60, 0xE0, 0xE0, 0xE0, 0xC1,
     0x81, 0x83, 0x03, 0x03, 0x03, 0x03, 0x07, 0x06, 0x07, 0x07, 0x0E, 0x0C, 0x08, 0x10, 0x00, 0x00,
  0x00,\,0x00,\,0x00,\,0x00,\,0xF0,\,0xF0,\,0xE0,\,0x00,\,0x00,\,0x0B,\,0x80,\,0x70,\,0x8C,\,0x08,\,0x10,\,0xE0,\\
0x00, 0x04, 0x08, 0x32, 0xC2, 0xC2, 0x34, 0x04, 0x08, 0x30, 0xC0, 0x60, 0x18, 0x0C, 0x06, 0x04, 0x00, 
  OXFF, OXFE, OXFE, OXFE, OXFF, 
     0xFF, 0xFF, 0xEB, 0xCF, 0xEC, 0xCC, 0xCC, 0xFE, 0xFE, 0xFE, 0xFF, 0xFF, 0xFF, 0xFF, 0xFB, 0xFD, 0xFE,
     0xFF, 0xFF, 0xF7, 0xF9, 0xF0, 0xF8, 0xF8, 0xFC, 0xFF, 0xFF, 0xF7, 0xF2, 0xF8, 0xFC, 0xFE, 0xFF,
     0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0x7C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
     0x40, 0x80, 0x80, 0xC0, 0x40, 0x40, 0xC0, 0x80, 0x80, 0x00, 0x00
  0x00, 0x80, 0x40, 0x40, 0x40, 0x40, 0x81, 0x81
  0x00, 0x02, 0x82, 0x73, 0x20,
     0x00, 0x3F, 0x20, 0x40, 0x40, 0x3F, 0x20, 0x20, 0x20, 0x3F, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
     0x03, 0x7F, 0xFF, 0xBF, 0x1F, 0xFF, 0xFC, 0x9E, 0x9F, 0xFF, 0xDF, 0xEF, 0x73, 0xF1, 0xF8, 0xF8,
     0xFC, 0xFC, 0xFC, 0xFE, 0xFE, 0x7E, 0x3E, 0x1E, 0x0E, 0x0E, 0x0C, 0x0C, 0x8C, 0x8C, 0x84, 0xE0,
     0x20,\,0x91,\,0xC7,\,0xE8,\,0x30,\,0x20,\,0x20,\,0x60,\,0x41,\,0xC2,\,0xC4,\,0x85,\,0x89,\,0x9B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B,\,0x8B
     0xE3, 0xD7, 0x99, 0xE1, 0x81, 0x01, 0x01, 0x01, 0x01, 0x01, 0x00, 0x01, 0x00, 0x00
  0x00, 0x00
  0x00, 0x00
     0x00, 0x02, 0x04, 0xF8, 0x04,
     0x02, 0xE2, 0x42, 0x82, 0x02, 0xFA, 0x02, 0x42, 0x22, 0xC2, 0x02, 0x00, 0x00, 0x00, 0x00, 0x00,
     0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0x0F, 0x01, 0x00, 0x00, 0x80, 0xC0, 0xC0, 0xE0, 0xF1, 0xF2,
     0x72, 0x74, 0x74, 0x78, 0x78, 0x30, 0x30, 0x20, 0x00, 0x00
0x00, 0xC0, 0x1C, 0x00, 0x00, 0x40, 0x64, 0x9E, 0x3C, 0xF8, 0xD0, 0xE0, 0xE0, 0x40, 0xC0, 0xC0, 0x80, 0xC0, 0xC0, 0xC0, 0xE0, 0xE0, 0xE0, 0xB0, 0xC0, 0xC0, 0xC0, 0xE0, 0xE0, 0xB0, 0xBE, 0xFF, 
     0x7E, 0x3C, 0x3C, 0x3B, 0x30, 0x70, 0x60, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
     0x00, 0x00, 0x03, 0x02, 0x04, 0x08, 0x10, 0x20, 0x7F, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
     0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x02,\,0x42,\,0x22,\\
  0x3A, 0x13, 0x02, 0xFE, 0x02, 0x03, 0x0A, 0x72, 0x22, 0x06, 0x02, 0x00, 0x00
     0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFC,\,0xFD,\,0xFD,\,0x7F,\,0x1F,\,0x0F,\,0x37,\,0x43,\,0x81,\,0x80,\,0x04,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F,\,0x1F
     0x19 0x13 0x27 0x4D 0xDE 0x9C 0xB4 0xB8 0xB8 0x78 0x30 0x10 0x00 0x00 0x00 0x00
     0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x01, 0x03, 0x07, 0x02, 0x00, 0x00
  0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xC0, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xCF, 0xC3,
     0xC1, 0x81, 0x80, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x01, 0x03, 0x03, 0x06, 0x09, 0x10, 0x30, 0x00, 0x00
     0x68, 0x86, 0x01, 0x00, 0x00, 0x00, 0x01, 0x3E, 0xC0, 0x41, 0x02, 0x04, 0x0C, 0x10, 0x20, 0x21,
  0x00, 0x01, 0x02, 0x04, 0x00, 0x00
  0x18, 0xE0, 0x00, 0x00, 0x00, 0xFC, 0x02, 0x02, 0x02, 0x02, 0x1E, 0x00, 0x00, 0x00, 0x00, 0x00, 0xFF, 
     0xE1, 0xC0, 0x80, 0x00, 0x00
     0x00, 0x00, 0x00, 0x20, 0x61, 0x61, 0xE1, 0xE3, 0xC6, 0x8C, 0x0C, 0x18, 0x19, 0x33, 0x7F, 0x00,
     0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x00,\,0x07,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF,\,0xFF
```

LCD Module Specification²³

Lx-12864B11

0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0x87, 0x80, 0x80, 0x80, 0x80, 0x00, 0x7F, 0xE0, 0x00, 0x00,

};

以上规格修改不另通通

深圳市力先电子有限公司