RECORD OF REVISION

Version	Revision Date	Contents	Editor
1.0	2014-12-2	New Release	YOU

1. PHYSICAL DATA

Item	Contents	Unit
LCD 膜式	STN/正显全透/黄绿膜	---
LCD duty	1/64	---
LCD bias	1/9	---
视角	6	o'clock
外尺寸 (W×H×T)	56.7×37.5×2.8	mm
内尺寸(W×H)	56.7×31.7	mm
点阵(W×H))	0.35×0.36	mm
点阵带间隙(W×H))	0.38×0.39	mm
点阵	128*64	
工作温度	-10 ℃ -- +60℃	
存储温度	-20 ℃ -- +70℃	

Item	Contents	Unit	
显示屏工作电压	2.8V---3.8V.标准为：3.3V		
背光电压	2.9V-3.1V		
背光电流	7mA--15mA-		
LED	一个绿灯		

2.EXTERNAL DIMENSIONS

背光图纸
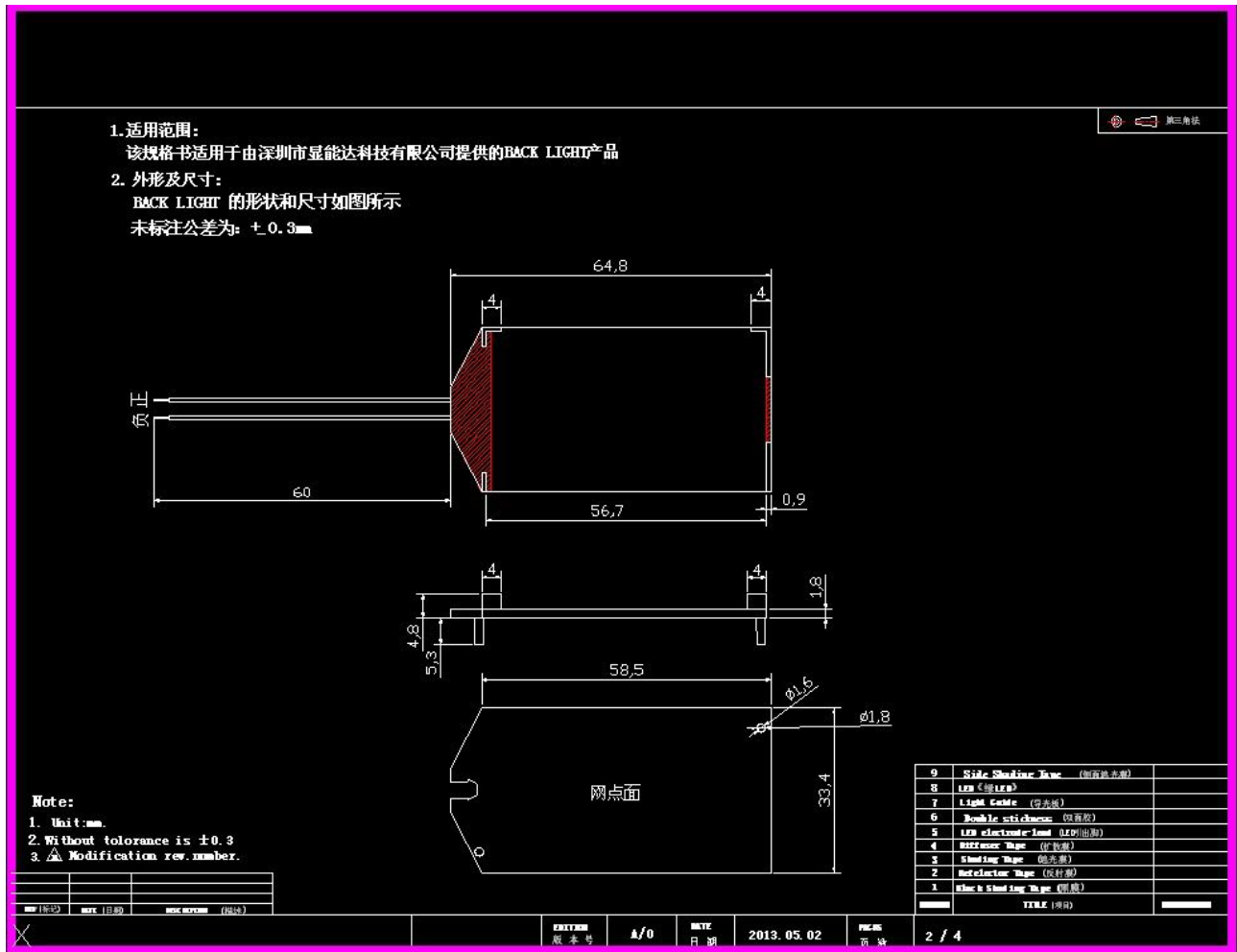
液晶显示屏尺寸图
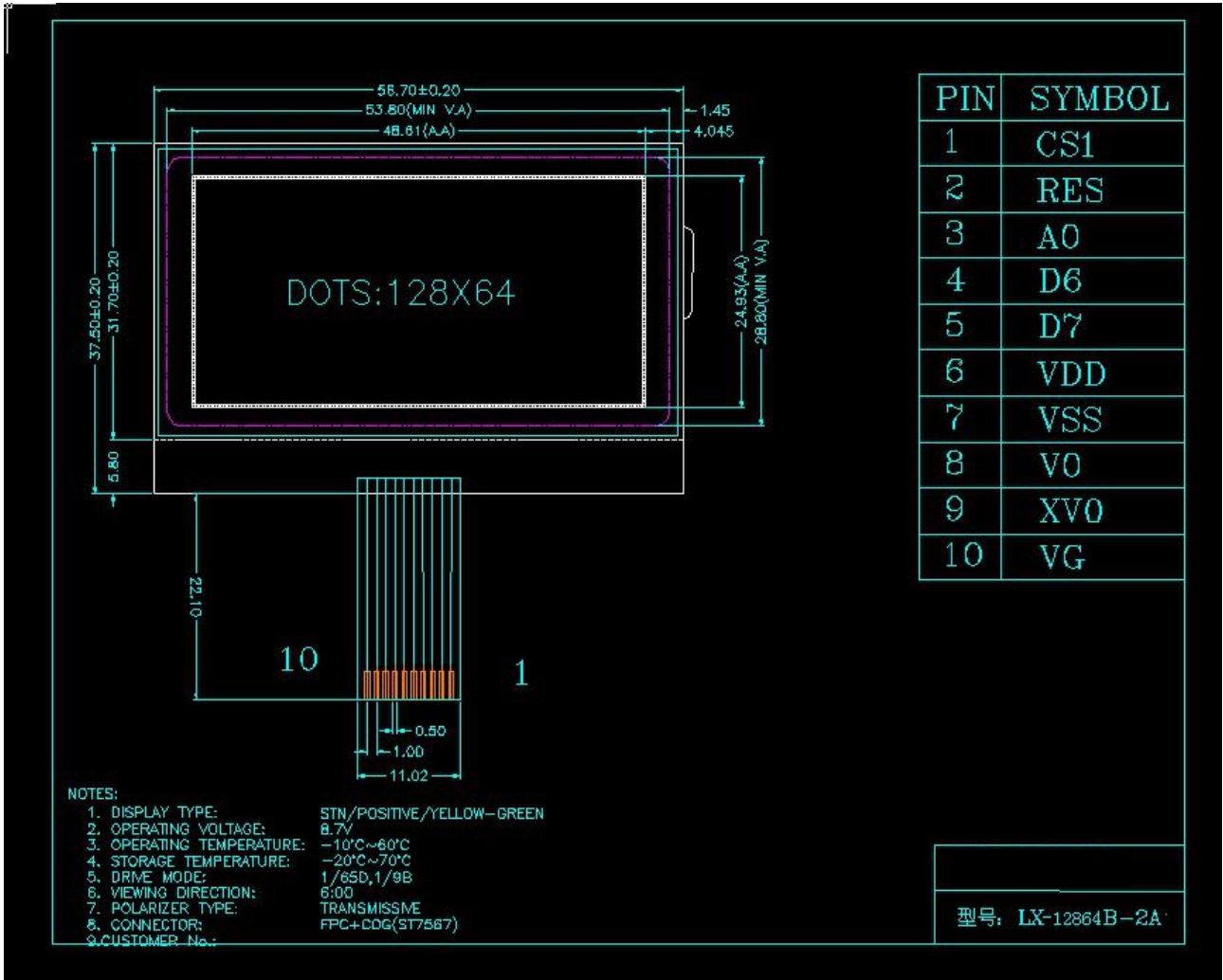
特别注明，按以上图看正面，右边为第一脚 **CS**

LX-12864B-2A ，**FPC** 连线是焊接式，接口定义是标准 **10PIN**，**1.0mm** 间距，。

3. BLOCK DIAGRAM
外围电路
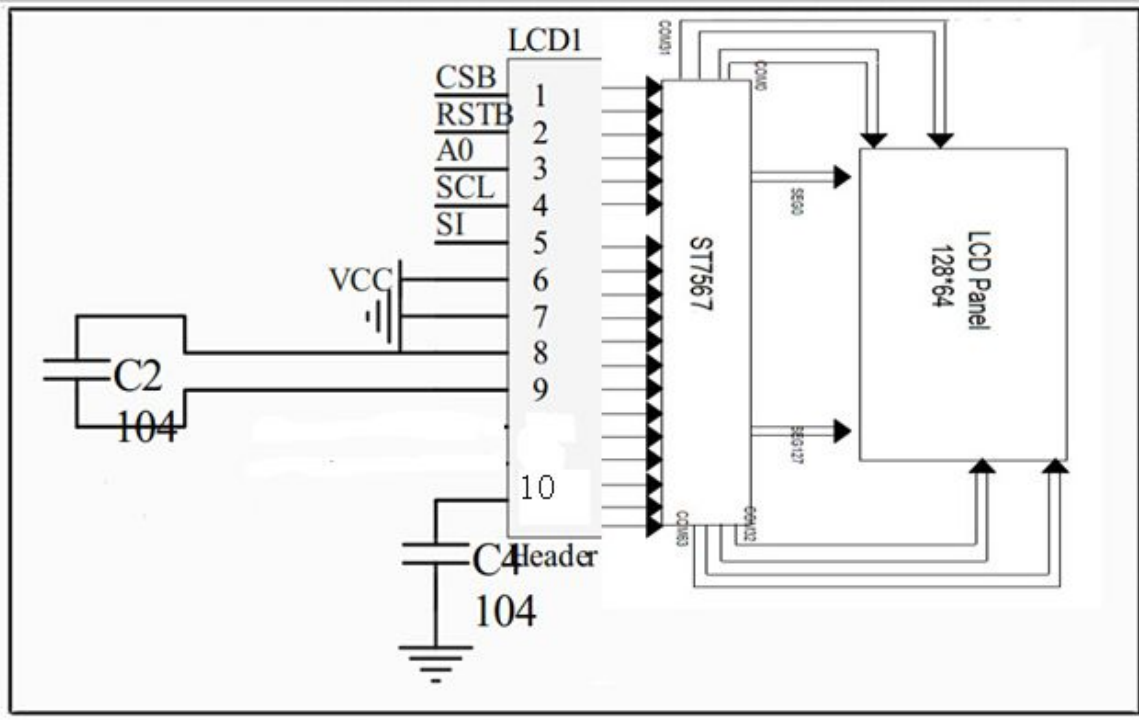
4. 以下引脚是串口（**SPI)，LX-12864B-2A** 以串口为准

PIN NO.	Symbol	Level	Description
1	CS	H/L	Chip select.
2	RES	H/L	Reset pin.
3	A0	H/L	A0="H": data. A0="L": Instruction command.
4	D6	---	CLK
5	D7		DATA

6	VDD		电源3.3V
7	VSS		地
8	VO	---	VO与XVO相互接个电容
9	XVO	---	VO与XVO相互接个电容
10	VG		VG对地接个电容

4. ABSOLUTE MAXIMUM RATINGS

(1)Electrical Absolute Ratings

Item	Symbol	Min.	Max.	Unit	Note
Power Supply for Logic	V_{DD}-V_{SS}	0	3.47	Volt	Note 1
Power Supply for LCD	V_{LCD}	0	13.0	Volt	
Input Voltage	V_I	0	V_{DD}	Volt	

Note 1 : Operator should be grounded during handling LCM

（2）Environmental Absolute Maximum Ratings

Item	Normal Temperature				Wide Temperature			
	Operating		Storage		Operating		Storage	
	Min.	Max,	Min.	Max,	Min.	Max,	Min.	Max,
Ambient Temperature	0℃	+50℃	-10℃	+60℃	-20℃	+70℃	-30℃	+80℃
Humidity(without condensation)	Note 2,4		Note 3,5		Note 4,5		Note 4,6	

Note 2　Ta≦50℃: 80% RH max

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

Note 3　Ta at -20℃ will be<48hrs at 70℃ 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≦70℃: 75RH max

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

Note 6   Ta at -20℃   will be <48hrs, at 80 ℃   will be <120hrs when humidity is higher than 75%.

5. ELECTRICAL CHARACTERISTICS

**DC Characteristics**   (VDD=3.3V;VSS=0V；Ta=-20～70℃)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Power Supply for Logic	V_{DD}-V_{SS}	---	3.14	3.3	3.47	Volt
Input Voltage	V_{IL}	---	VSS	---	0.2V_{DD}	Volt
	V_{IH}	---	0.8V_{DD}	---	V_{DD}	Volt
Output Voltage	V_{OH}	I_{OL} =-0.5mA	0.8V_{DD}	---	V_{DD}	Volt
	V_{OL}	I_{OL} = +0.5mA	VSS	---	0.2V_{DD}	Volt
LCM Recommend LCD Module Driving Voltage	V_{LCD}	$T_a＝0℃$	---	---	---	Volt
		$T_a＝25℃$	9.15	9.35	9.6	
		$T_a＝50℃$	---	---	---	
Power Supply Current for LCM	$I_{DD(B/L OFF)}$	---	---	---	TBD	mA

AC Characteristics
System Bus Timing for 6800 Series MPU

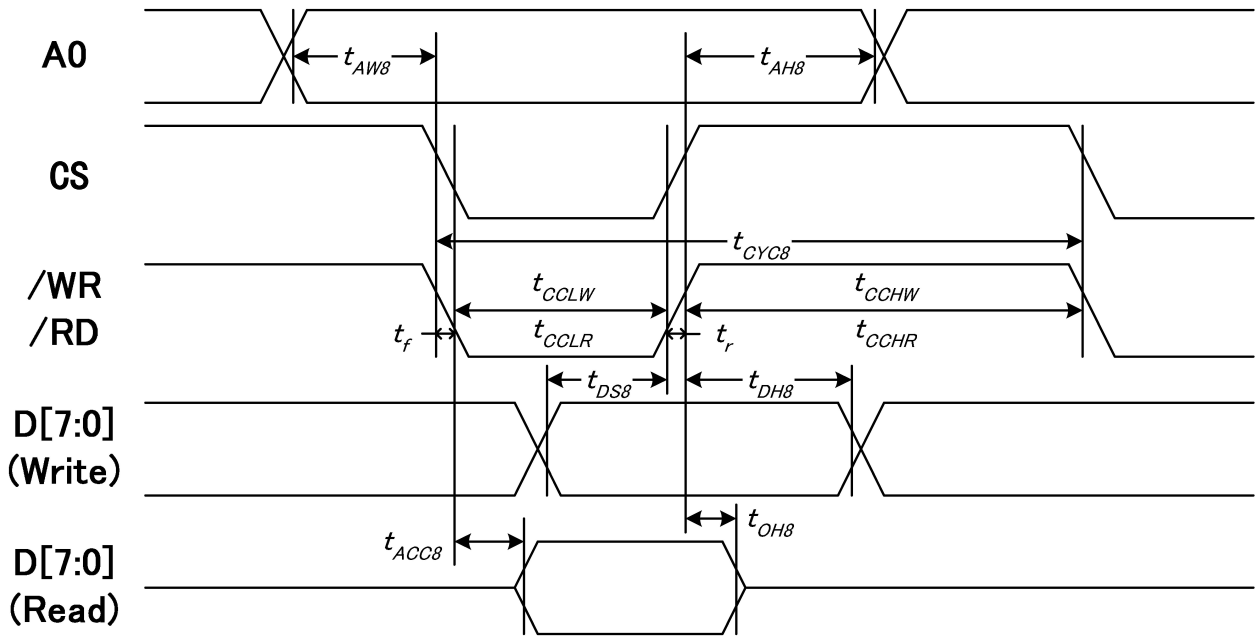   (VDD=3.3V, Ta=25℃)

Item	Signal	Symbol	Condition	Min.	Max.	Unit
Address setup time	A0	tAW6		0	—	
Address hold time		tAH6		0	—	
System cycle time	E	tCYC6		240	—	
Enable L pulse width (WRITE)		tEWLW		80	—	
Enable H pulse width (WRITE)		tEWHW		80	—	
Enable L pulse width (READ)		tEWLR		80	—	ns
Enable H pulse width (READ)		tEWHR		80	—	
Write data setup time	D[7:0]	tDS6		30	—	
Write data hold time		tDH6		10	—	
Read data access time		tACC6	CL = 100 pF	—	70	
Read data output disable time		tOH6	CL = 100 pF	10	50	
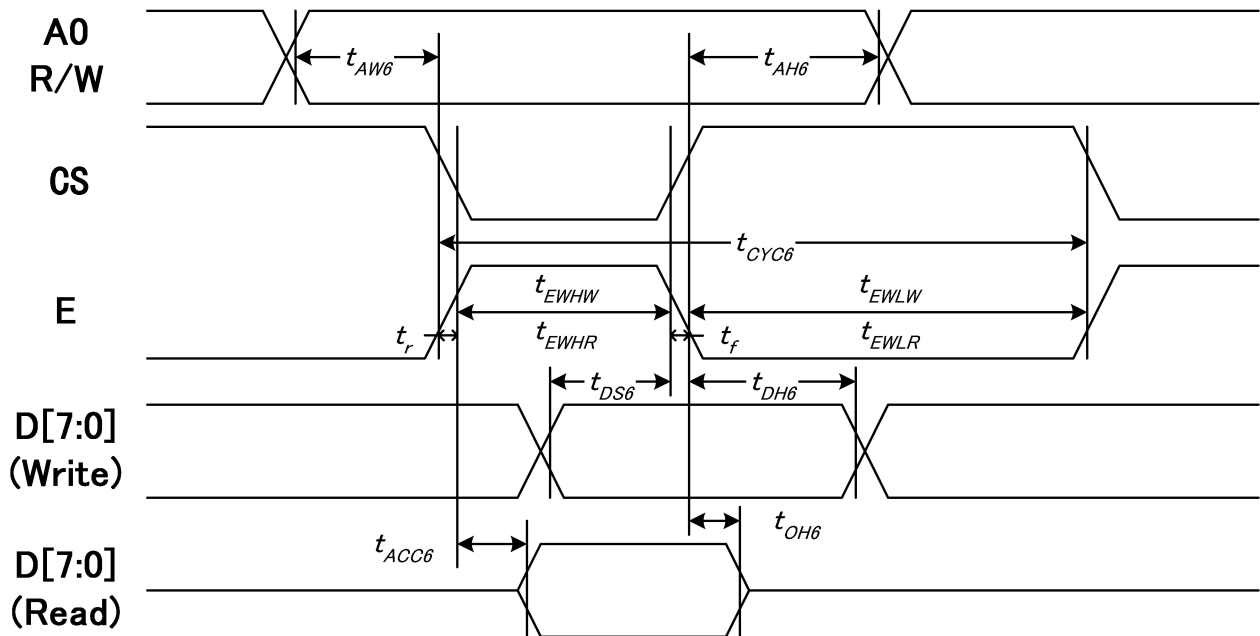
System Bus Timing for 8080 Series MPU

(VDD=3.3V, Ta=25℃)

Item	Signal	Symbol	Condition	Min.	Max.	Unit
Address setup time	A0	tAW8		0	—	
Address hold time		tAH8		0	—	
System cycle time	/WR	tCYC8		240	—	
/WR L pulse width (WRITE)		tCCLW		80	—	
/WR H pulse width (WRITE)		tCCHW		80	—	
/RD L pulse width (READ)	RD	tCCLR		80	—	ns
/RD H pulse width (READ)		tCCHR		80		
WRITE Data setup time	D[7:0]	tDS8		30	—	
WRITE Data hold time		tDH8		10	—	
READ access time		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℃)

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	SDA	tSDS		20	---	
Data hold time		tSDH		10	---	
CS-SCLK time	CS	tCSS		20	---	
CS-SCLK time		tCSH		40	---	
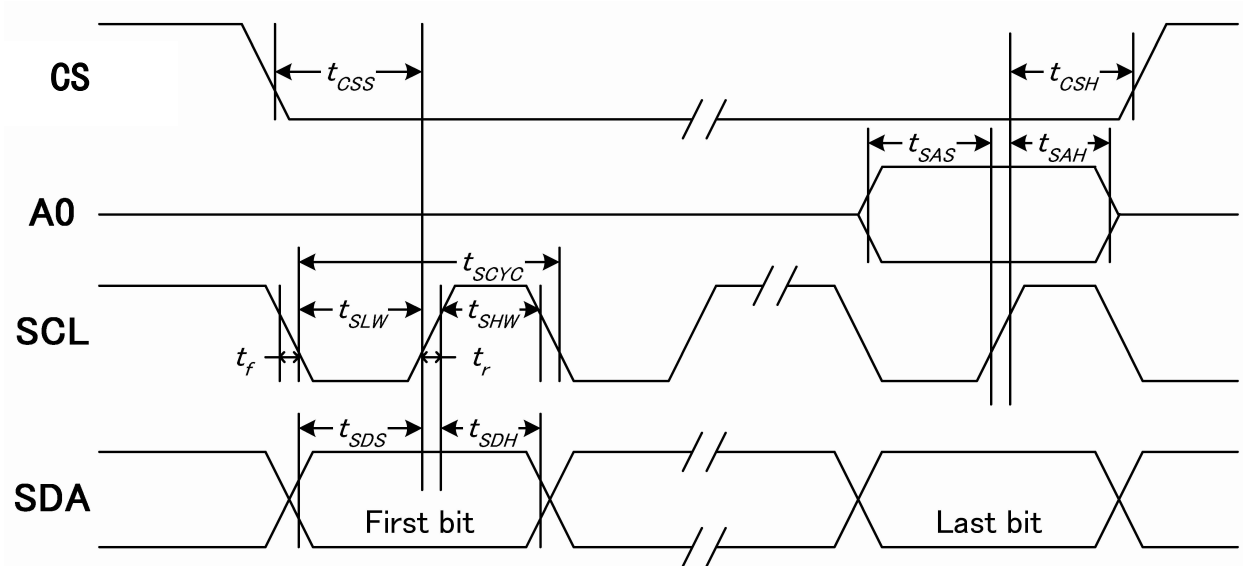
6. ELECTRO-OPTICAL CHARACTERISTICS

Item	Symbol	Condition	Min.	Typ.	Max.	Unit	note
Viewing angle range	θ_f (12 o'clock)	When Cr $\geqq$ 2	35	---	---	Degree	Note 2 Note 3 Note 4
	θ_b (6 o'clock)		30	---	---		
	θ_l (9 o'clock)		30	---	---		
	θ_r (3 o'clock)		30	35	---		
Rise Time	T_r	$V_{DD}-V_0$=8.7V Ta=25℃		112		mS	Note 1
Fall Time	T_f			250			
Contrast	Cr		---	5. 4	---		

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

[positive type]

[Negative type]
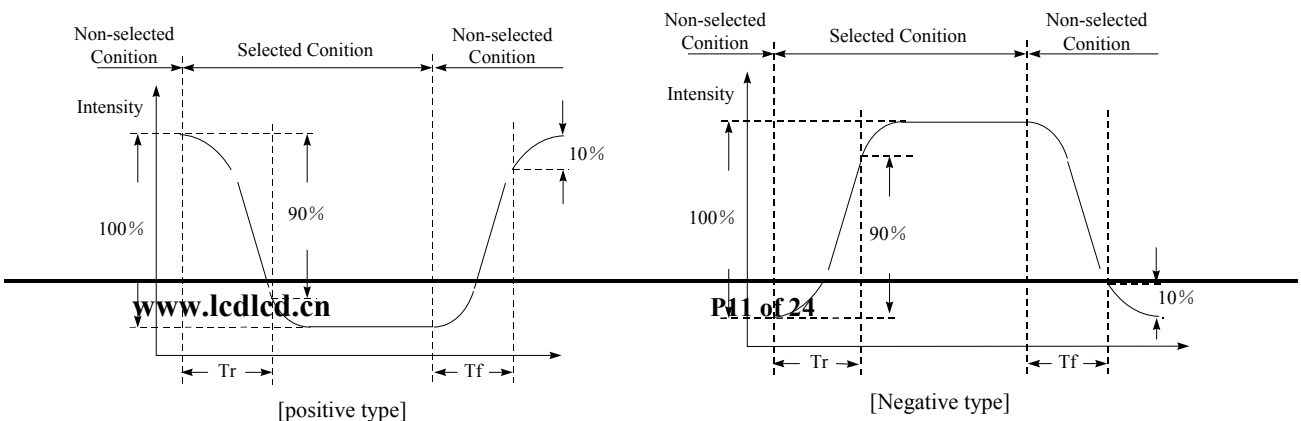
Conditions:

Operating Voltage : Vop   Viewing Angle(θ, φ): 0° , 0°
Frame Frequency : 64 Hz   Driving Wave form : 1/N duty, 1/a bias

[Note 2] Definition of Viewing Direction

Viewing Direction

Front

øf

Viewing area Curve
for Contrast Ratio>2

Left   øl   ør   Right

øb

Rear
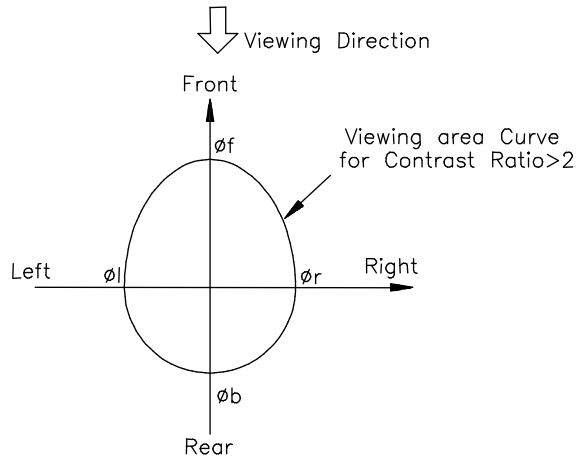
[Note 3] Definition of viewing angle

øb   øt

øl   ør
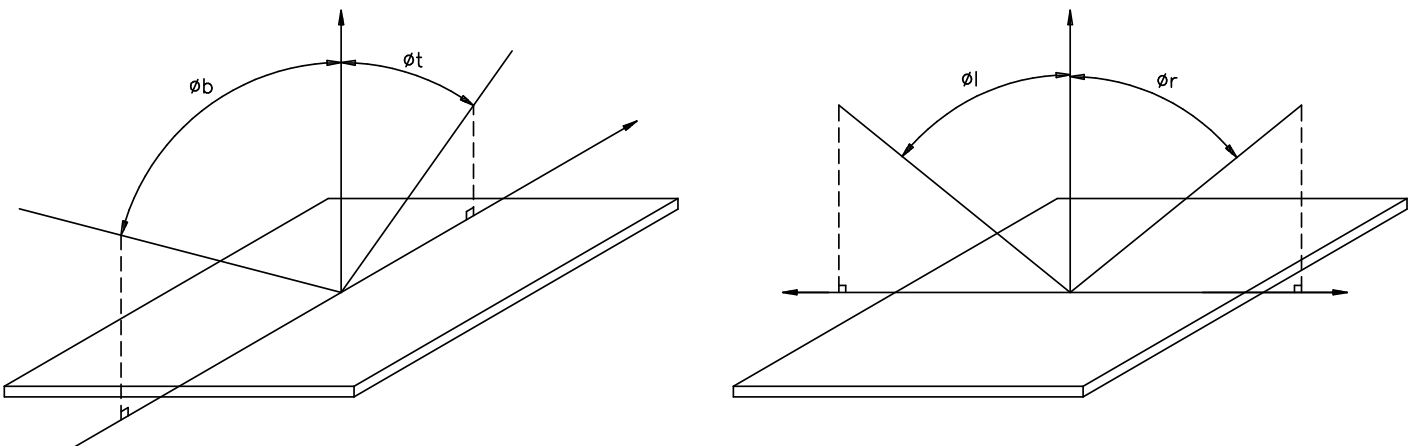
[Note 4] Description of Measuring Equipment

light
source

reflected
light

Reflective type

light
source

reflected light

light source
(backlight)
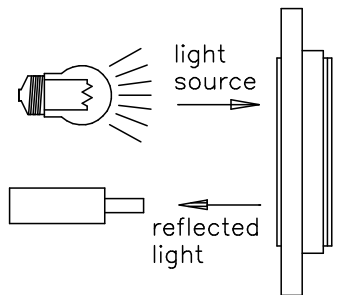
reflected
light
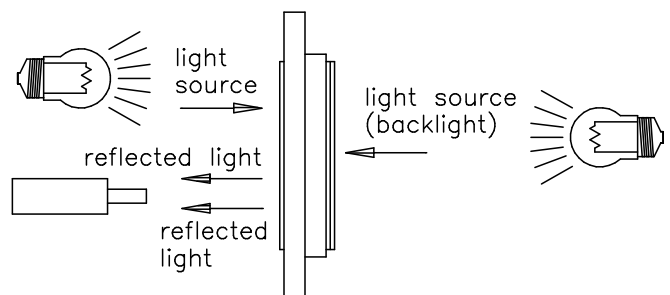
Transflective type

7. OPERATING PRINCIPLES & METHODS

INSTRUCTION	A0	R/W	COMMAND BYTE								DESCRIPTION
			D7	D6	D5	D4	D3	D2	D1	D0	
(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) Set Column Address	0	0	0	0	0	1	X7	X6	X5	X4	Set column address (MSB)
	0	0	0	0	0	0	X3	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 volume register set	0	0	1	0	0	0	0	0	0	1	Set the V0 output voltage electronic volume register
	0	0	0	0	EV5	EV4	EV3	EV2	EV1	EV0	
(19) Static indicator ON/OFF Static indicator Register set	0	0	1	0	1	0	1	1	0	0/1	0: OFF, 1: ON
	0	0	0	0	0	0	0	0	0	Mode	Set the flashing mode
(20) Page Blink Page selection	0	0	1	1	0	1	0	1	0	1	P7 - 0: 1 - blinking page 0 - no blinking, normal display
	0	0	P7	P6	P5	P4	P3	P2	P1	P0	
(21). Driving Mode Set Mode selection	0	0	1	1	0	1	0	0	1	0	Set the driving mode register
	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

No.	Test Item	Content of Test	Test Condition	Applicable Standard
...		**Environmental Test**		
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 ⇌ 25°C ⇌ 60°C 30min / 5min. / 30min ← 1 cycle →	-10°C / 60°C 10 cycles	------
		Mechanical Test		
8	Vibration test	Endurance test applying the vibration during transportation and using.	10~22Hz → 1.5mmp-p 22~500Hz → 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 1l 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 2～4 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.

9. QUALITY GUARANTEE

No	Item	Criteria
1	inclusions (black spot, white spot, dust)	(1)round type 　diameter mm(a*)　　　　no of defect* 　a $\leqq$ 0.20　　　　　　　neglect 　0.20 $<$ a $\leqq$ 0.35　　　　5max 　0.35 $<$ a　　　　　　　none (2)linear type 　**length mm(l)　　width mm(W)　　no. of defect** 　na　　　　　　　W $\leqq$ 0.03　　neglect 　l $\leqq$ 3　　　　0.03 $<$ W $\leqq$ 0.08　　6 　3 $<$ l　　　　0.08 $<$ W　　　none
2	scratch	1.scratch on protective film is permitted. 2.scratch on polarizer shall be as follow: 　(1)round type 　　diameter mm(a*)　　no of defect 　　　a $\leqq$ 0.15　　　　　　neglect 　　0.15 $<$ a $\leqq$ 0.20　　　　2 max 　　0.20 $<$ a　　　　　　none 　(2)linear type be judged bye 1.-(2) linear type
3	dent	diameter $<$ 1.5mm
4	bubble	not exceeding 0.5mm average diameter is acceptable between glass and polarizing film
5	pin hole	(a+b)/2 $\leqq$ 0.15mm maximum number: ignored 0.15 $<$ (a+b)/2 $\leqq$ 0.20mm maximum number:10
6	dot width	design width ±15%
7	dot defect	(a+b)/2 $\leqq$ 0.20mm maximum number: ignored 0.20 $<$ (a+b)/2 $\leqq$ 0.30mm maximum number:5 x=width
8	contrast irregularity(spot)	diameter spec　　　　no of defect a $\leqq$ 0.50mm　　　　neglect 0.50 $<$ a $\leqq$ 0.75　　　　5 0.75 $<$ a $\leqq$ 1.00　　　　3 1.00 $<$ a　　　　　none
9	color tone and uniformity	obvious uneven color is not permitted

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

（1）Interface circuit:
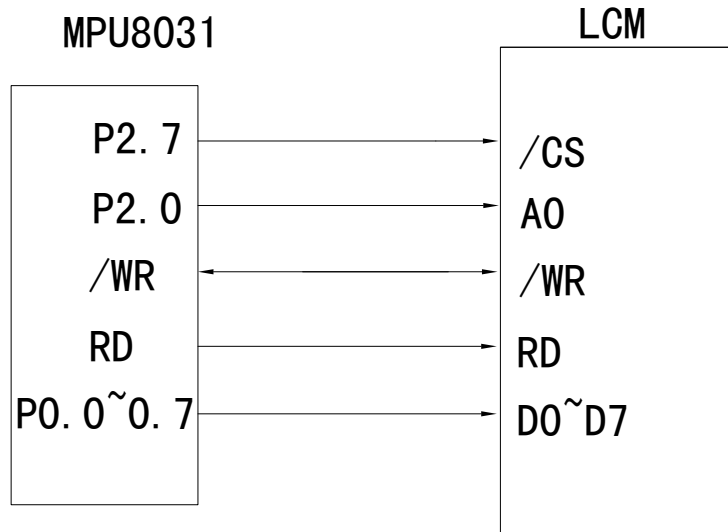
串口测试程序（其它技术参数请参考 IC:ST7567)

```
//***************************************************************
//连线表:  CPU=W78E54B                                          *
//CS=P3.0   SID=P3.1   SCK=P3.2   RS=P3.3   Fosc=12Mhz   RST=P3.5 *
//***************************************************************
#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 SID = P3^1;        //数据
sbit SCK = P3^2;        //Clock 信号
sbit RS  = P3^3;        //数据指令选择
sbit Key = P3^4;        //测试架锁定按键(测试架专用)
sbit RES = P3^5;        //测试架复位是板载 RC 复位,可以不需要 IO 口操作

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
      for(i=0;i<8;i++)
      {       SCK=1;
              SID=( (CommandByte>>(7-i)) &0x01);
              SCK=0;
              _nop_();
              SCK=1;
      }
}

void WriteData( Uchar DataByte )
{
      Uchar i;
      CS=0;
      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++)
        {
                WriteCommand(0xB0|ComTable[i]);     //Set Page Address
                WriteCommand(0x10);    //Set Column Address = 0
                WriteCommand(0x01);    //Colum from S1 -> S128 auto add
                for(j=0;j<128;j++)
                {
                        WriteData( FillData );
                }
        }
}

void LcmInit( void )
{
        WriteCommand(0xAE);   //Display OFF
        WriteCommand(0xA2);   //1/64 Duty 1/9 Bias
        WriteCommand(0xA0);   //ADC select S0->S131(玻璃设计用 S1-S128)
        WriteCommand(0xC0);   //com1 --> com64
        WriteCommand(0x24);   //对某些模块没用,用的外部 Rb/Ra
        WriteCommand(0x81);   //Sets V0
        WriteCommand(48);     //内部电位器调节对比度
        WriteCommand(0x2F);   //voltage follower ON  regulator ON  booster ON
        WriteCommand(0xA6);   //Normal Display (not reverse dispplay)
        WriteCommand(0xA4);   //Entire Display Disable
        WriteCommand(0x40);   //Set Display Start Line = com0
        WriteCommand(0xB0);   //Set Page Address = 0
        WriteCommand(0x10);   //Set Column Address 4 higher bits = 0
        WriteCommand(0x01);   //Set Column Address 4 lower bits = 1 , from IC SEG1 -> SEG128
        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 = (Order-0x20)*0x10;              //ASICC 字符从 0x20 开始,每个 16 byte
        WriteCommand(ComTable[page&0x07]|0xB0);    //Set Page Address
        WriteCommand( ((col+1)>>4) | 0x10); //Set Column Address High Byte
        WriteCommand( (col+1)&0x0F );       //Low Byte  Colum from S128 -> S1 auto add

        for(i=0;i<8;i++)
        {
                WriteData( ASCIIchardot[x] );
                x++;
        }
        page++;                           //下半字符 page+1

        WriteCommand(ComTable[page&0x07]|0xB0);     //Set Page Address
        WriteCommand( ((col+1)>>4) | 0x10);         //Set Column Address High Byte
        WriteCommand( (col+1)&0x0F );               //Low Byte  Colum from S128 -> S1 auto add

        for(i=0;i<8;i++)
        {
                WriteData( ASCIIchardot[x] );
                x++;
        }
        page--;                           //写完一个字符 page 还原
}

//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>(LcmXPixel-8))           //判断行末空间是否够放一个字符,自动换行
                {
```

```
                          page=page+2;
                          col=0;
               }
               if(page>(LcmYPixel/8-2))        //到了屏幕最下角,自动返回左上角
               {
                          page=0;
                          col=0;
               }
               LcmPutChar(col,page,*puts);
               puts++;
               col=col+8;               //下一个字符8列之后
       }
}

//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);

       if(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);

       LcmPutChar(col+16,page,c+0x30);
}

void LcmPutBmp( Uchar *puts )
{
       Uchar i,j;
       Uint X=0;
       for(i=0;i<(LcmYPixel/8);i++)
       {
               WriteCommand(0xB0|ComTable[i]);       //Set Page Address
               WriteCommand(0x10);    //Set Column Address = 0
               WriteCommand(0x01);    //Colum from S1 -> S128 auto add
               for(j=0;j<LcmXPixel;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++)
               {
                       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);           //Sets V0
               WriteCommand(contrast);       //恢复对比度
               LcmPutNum(10,2,contrast);

               LcmClear(0xff);
               DelayKey(1,0);

               LcmClear(0);
               LcmPutStr(0,0,"CA12864B2 Program");
               LcmPutStr(0,2,"SunSon ELEC-TECH");
               LcmPutStr(0,4,"TEL:755-29582963");
               LcmPutStr(0,6,"By LJ 2014.12.08");
               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   --*/
0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,

/*-- 文字:  ! --*/
/*-- Fixedsys12;  此字体下对应的点阵为:宽 x 高=8x16   --*/
0x00,0x00,0x0E,0x1F,0x1F,0x0E,0x00,0x00,0x00,0x00,0xB0,0xB0,0x00,0x00,0x00,0x00,

/*-- 文字:  " --*/
/*-- Fixedsys12;  此字体下对应的点阵为:宽 x 高=8x16   --*/
0x00,0x1C,0x1C,0x00,0x00,0x1C,0x1C,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, 0x04, 0x1F, 0x1F, 0x04, 0x1F, 0x1F, 0x04, 0x00, 0x40, 0xF0, 0xF0, 0x40, 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, 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, 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, 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, 0xC0, 0x80, 0xC0, 0x40, 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, 0x00, 0x00, 0xC0, 0xC0, 0x00, 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, 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, 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, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 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, 0x0C, 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, 0xD0, 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, 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, 0xF0, 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, 0xE0, 0x00,

/*-- 文字: 9 --*/
/*-- Fixedsys12; 此字体下对应的点阵为：宽 x 高=8x16   --*/
0x00, 0x0F, 0x1F, 0x10, 0x10, 0x1F, 0x0F, 0x00, 0x00, 0x00, 0x90, 0xB0, 0xF0, 0xC0, 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,

/*-- 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, 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, 0x00, 0x00, 0x80, 0x80, 0x80, 0x80, 0x80, 0x80, 0x00,

/*--  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, 0xB0, 0xB0, 0x00, 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, 0x50, 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, 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, 0x1C, 0x0C, 0x00, 0x00, 0xE0, 0xF0, 0x10, 0x10, 0x70, 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, 0x1C, 0x0C, 0x00, 0x00, 0xE0, 0xF0, 0x10, 0x90, 0xF0, 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,

/*--  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:  O  --*/
/*--  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, 0x10, 0xF0, 0xE0, 0x00,

/*--  文字:  P  --*/
/*--  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, 0x00, 0x00, 0x00, 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, 0x80, 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, 0xF0, 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,

/*--  文字:  U  --*/
/*--  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, 0xC0, 0xE0, 0x30, 0x30, 0xE0, 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, 0x70, 0x80, 0x70, 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, 0x80, 0xF0, 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, 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, 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: ˆ --*/
/*-- Fixedsys12; 此字体下对应的点阵为: 宽 x 高=8x16 --*/
0x00, 0x10, 0x30, 0x60, 0x60, 0x30, 0x10, 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, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0x02, 0x02, 0x02, 0x02, 0x02, 0x02, 0x02,

/*-- 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, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 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, 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 --*/
/*-- Fixedsys12; 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,

/*-- 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: l --*/
/*-- 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, 0x10, 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,

```
/*--  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, 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, 0xF0, 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, 0xC0, 0xE0, 0x30, 0x30, 0xE0, 0xC0, 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, 0x30, 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, 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, 0xD0, 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, 0x00, 0x1F, 0x1F, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xFE, 0xFE, 0x00, 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, 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,

/*--  文字:    --*/
/*--  Fixedsys12;  此字体下对应的点阵为: 宽 x 高=8x16    --*/
0x00, 0x1F, 0x1F, 0x1F, 0x1F, 0x1F, 0x00, 0x00, 0xF0, 0xF0, 0xF0, 0xF0, 0xF0, 0xF0, 0x00, 0x00,
};

Uchar code bmp1[]={
/*--  调入了一幅图像: E:\!Program\MobilePhone22.bmp  --*/
/*--  宽度 x 高度=128x64   --*/
0xFF, 0x80, 0xBF, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0,
0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0,
0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0,
0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0,
0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0,
0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0,
0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0,
0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xA0, 0xBF, 0x80, 0xFF,
0xFF, 0x00, 0xFF, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x7F, 0x40, 0x5F, 0x4F,
0x5F, 0x5F, 0x5E, 0x5C, 0x58, 0x50, 0x50, 0x50, 0x50, 0x50, 0x50, 0x50, 0x50, 0x58, 0x58,
0x5C, 0x5E, 0x5F, 0x5F, 0x5F, 0x5F, 0x4F, 0x5F, 0x5F, 0x57, 0x4A, 0x55, 0x4A, 0x55, 0x4A, 0x55,
0x4A, 0x55, 0x4A, 0x54, 0x48, 0x53, 0x44, 0x4B, 0x4B, 0x4B, 0x48, 0x47, 0x40, 0x40, 0x40, 0x41,
0x42, 0x42, 0x42, 0x45, 0x49, 0x45, 0x45, 0x42, 0x40, 0x40, 0x40, 0x40, 0x47, 0x48, 0x47,
0x47, 0x48, 0x47, 0x4B, 0x45, 0x42, 0x40, 0x40, 0x43, 0x45, 0x45, 0x48, 0x4A, 0x4A, 0x45, 0x40,
0x40, 0x50, 0x4A, 0x55, 0x4A, 0x55, 0x4A, 0x55, 0x4A, 0x55, 0x4B, 0x57, 0x4F, 0x53, 0x40, 0x7F,
0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xFF, 0x00, 0xFF,
0xFF, 0x00, 0xFF, 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, 0x80, 0xE0, 0xFF, 0xFF, 0xFF, 0xDF, 0xFF, 0xFF, 0xBF, 0x55, 0xAA, 0x55, 0xAA, 0x55,
0xAA, 0x55, 0x00, 0x02, 0x05, 0xFA, 0x04, 0x58, 0x52, 0xFD, 0x00, 0xFF, 0x00, 0x00, 0x38,
0xC5, 0xEE, 0x9D, 0x52, 0x56, 0x11, 0xDE, 0x4E, 0x58, 0x27, 0x20, 0x50, 0xBF, 0x00, 0xFF, 0xA0,
0xA0, 0x18, 0xA4, 0x52, 0x4D, 0x88, 0x07, 0x25, 0xDA, 0x57, 0x40, 0x3D, 0xAA, 0xB4, 0xAA, 0x55,
0x25, 0x05, 0xA2, 0x50, 0xB8, 0x7C, 0x9E, 0x7D, 0xBA, 0x55, 0xAA, 0xD5, 0xEA, 0xF5, 0x00, 0xFF,
0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xFF, 0x00, 0xFF,
0xFF, 0x00, 0xFF, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xFF, 0x00, 0xFF, 0x1F,
0x07, 0x03, 0x01, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
0x00, 0x01, 0x03, 0x07, 0x1F, 0xFF, 0xFF, 0xFF, 0xFF, 0xF7, 0xFF, 0x7F, 0xBF, 0x5F, 0xAF, 0x57,
0xAB, 0x55, 0xAA, 0x55, 0x2A, 0x15, 0x2A, 0x15, 0x2A, 0x15, 0xAA, 0x14, 0x08, 0x00, 0x00, 0x02,
```

```
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,
0x01, 0x04, 0x0A, 0x04, 0x00, 0x00, 0x00, 0x55, 0xAA, 0x55, 0xAA, 0x55, 0xAA, 0x55, 0x00, 0xFF,
0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xFF, 0x00, 0xFF,
0xFF, 0x00, 0xFF, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xFF, 0x00, 0xEF, 0xFF,
0xFF, 0xFF, 0xDF, 0xFE, 0x7E, 0x7F, 0x3E, 0x3E, 0x3F, 0x3F, 0x3B, 0x3F, 0x3F, 0x3F, 0x7F, 0x7F,
0xF7, 0xFF, 0xFF, 0xFE, 0xFD, 0xFD, 0x7E, 0xFD, 0xFD, 0xFE, 0xFF, 0xFF, 0xFF, 0xCF, 0xC7, 0xE3,
0xC7, 0xCF, 0xFF, 0x7F, 0xB7, 0x5F, 0xAB, 0x55, 0xAA, 0x55, 0x8A, 0x01, 0x00, 0x01, 0x10, 0xA9,
0x68, 0x55, 0x04, 0xB9, 0xE8, 0x19, 0xC8, 0x35, 0xCA, 0x13, 0x0C, 0x01, 0xF0, 0x09, 0xA8, 0xE9,
0x08, 0xF1, 0xB8, 0xD5, 0xFA, 0x05, 0xF8, 0x01, 0x40, 0xA1, 0x40, 0xC1, 0x20, 0xD1, 0xE8, 0xE9,
0xE8, 0xA9, 0x50, 0x21, 0x00, 0x01, 0x02, 0x55, 0xAA, 0x55, 0xAA, 0x55, 0xAB, 0x57, 0x00, 0xFF,
0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xFF, 0x00, 0xFF,
0xFF, 0x00, 0xFF, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xFF, 0x00, 0xF9, 0xF6,
0xFB, 0xF6, 0xF9, 0x7F, 0x3D, 0x1F, 0x3F, 0x7F, 0xFF, 0xFF, 0xFF, 0xDF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFD, 0xFF, 0xFF, 0x7F, 0xBF, 0xDF, 0xEF, 0xDF, 0xBF, 0x7F, 0xFF, 0xFF, 0xEF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xE7, 0xDB, 0xDD, 0xEE, 0xDD, 0xDB, 0xE7, 0x7F, 0xFF, 0x7F, 0xFF, 0x77, 0xFF, 0x7F,
0xFF, 0xFE, 0x7F, 0xFF, 0x6F, 0xFF, 0x7F, 0xFC, 0x78, 0xFC, 0x78, 0xFC, 0xFC, 0x7F, 0xFF, 0x5F,
0xFF, 0x7F, 0xFF, 0x73, 0xE1, 0x70, 0xE1, 0x73, 0xFF, 0x7F, 0xFF, 0x7F, 0xFF, 0x7F, 0xFE, 0x6D,
0xFD, 0x7E, 0xED, 0x7D, 0xFE, 0x7F, 0xFF, 0x7F, 0xFF, 0x7F, 0xFF, 0xFD, 0xF8, 0xFC, 0x00, 0xFF,
0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xFF, 0x00, 0xFF,
0xFF, 0x00, 0xFF, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xFC, 0x04, 0xF4, 0xF4,
0x74, 0xD4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xB4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4,
0xF4, 0xF4, 0xF4, 0xC4, 0xB4, 0xD4, 0xB4, 0xC4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xD4, 0xF4,
0xF4, 0xF4, 0xF4, 0xF4, 0xE4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4,
0xF4, 0xE4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0x74, 0x34, 0x74, 0xF4, 0xF4, 0xF4, 0xF4,
0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xF4, 0xB4, 0xF4, 0xF4, 0xF4, 0x74, 0xF4, 0x74, 0xB4,
0xD4, 0xE4, 0xD4, 0xB4, 0x74, 0xF4, 0xF4, 0xF4, 0xF4, 0xB4, 0xF4, 0xF4, 0xF4, 0x74, 0x04, 0xFC,
0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xFF, 0x00, 0xFF,
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, 0xFD, 0x01, 0xFF,
};

Uchar code bmp3[]={
/*--  调入了一幅图像: E:\!Program\MobilePhone3.bmp  --*/
/*--  宽度 x 高度=128x64  --*/
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xDF,
0xE7, 0xC7, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xE0, 0x80, 0x00, 0x04, 0xFE,
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,
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};
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