图形点阵液晶显示模块使用手册

CM7401SLYB

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广州新赛格电子城三楼Ｂ３３１３档

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CM7401 是一种图形点阵液晶显示器，它由控制器 HD61830/T6963C,行驱动器/ 列驱动器及 240×128 全点阵液晶显示屏组成.可完成图形显示,也可以显示 15×8 个(16×16 点阵)汉字。

主要技术参数和性能：

1.电源：VDD：+5V±5%； 模块内自带-15V 负压，用于 LCD 的驱动电压。

2.显示内容：240(列)×128(行)点

3.全屏幕点阵

4. 带 8K 外部数据存储器(其地址由软件设定)

5.其接口适配 68/80 系列 MPU 的控制时序

6. 驱动方式: 1/128 DUTY,1/12 BIAS

7.工作温度：-10℃∽+60℃，存储温度：-20℃∽+70℃

8.显示模式：STN 黄绿膜

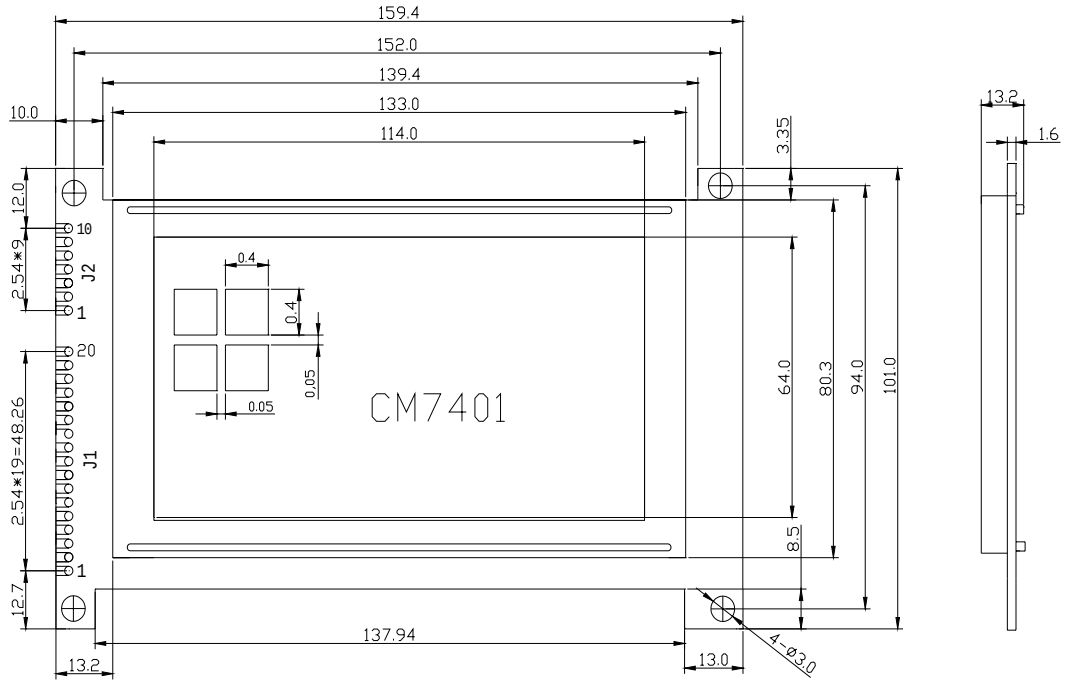
9.背光特性：LED 背光或 EL 背光（黄绿色）

10.模块封装方式：SMT

11.视角方向：6:00

12.功耗：模块自带负压

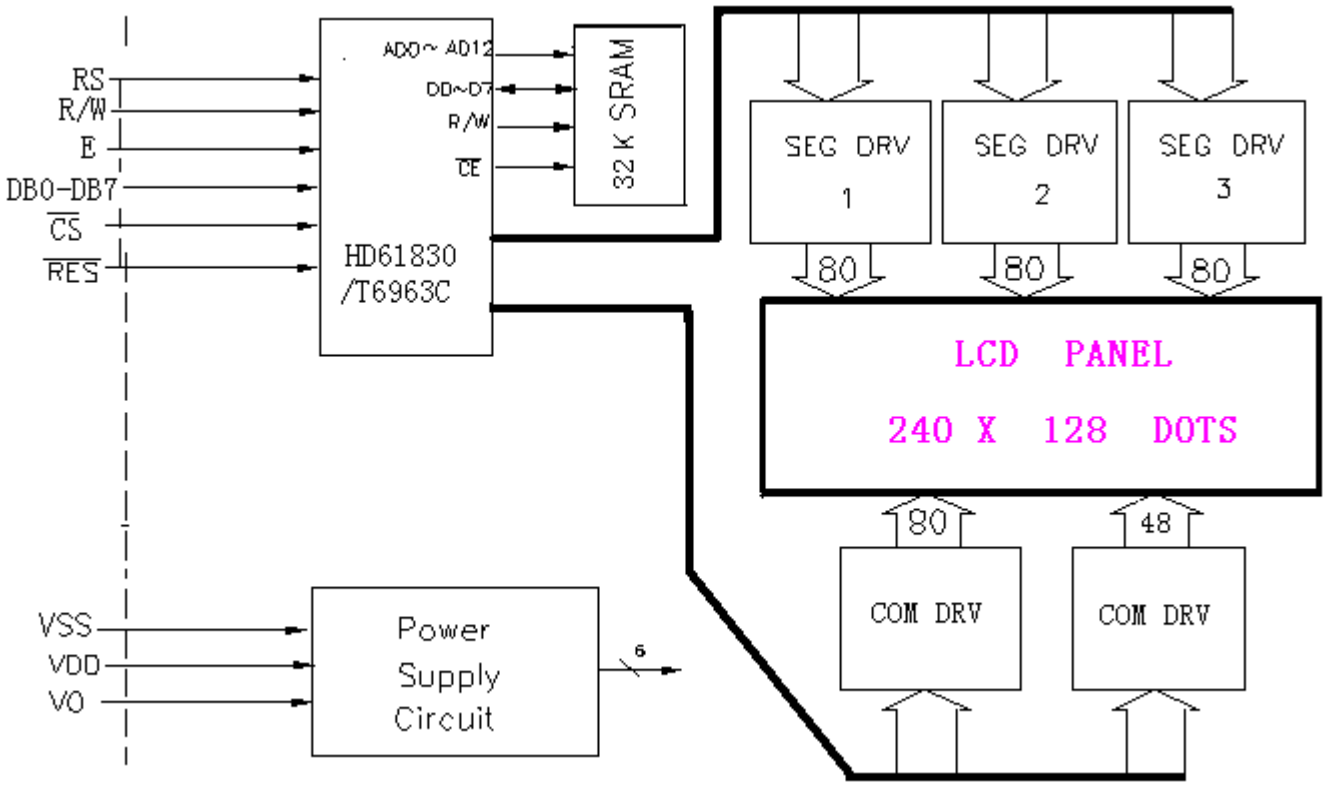
二、外形尺寸图



外形尺寸一览

ITEM	NOMINAL DIMEN	UNIT
模块体积	159.4×101×9.5/13.2	mm
视域	114.0×64.0	mm
行列点阵数	240×128	DOTS
点距离	0.05×0.05	mm
点大小	0.4×0.4	mm

三、硬件结构图



四、J2 模块的外部接口：

1	ED	-	Serial data
2	CDATA	-	Synchronus signal for row driver
3	DISP OFF/NC	--	H:Display ON.L: Display OFF / for NC
4	LP	-	Latch pulse for column driver. Shift clock pulse for row driver
5	HSCP	-	Shift clock pulse for column driver
6	FR	---	Frame signal
7	VDD	5.0V	Supply voltage for logic
8	VSS	0V	Grourd
9	VEE	-15V	Output voltage for LCD
10	VO	-12∽-15V	Input voltage for LCD

J1 模块的外部接口(HD61830)：

序号	符号	状态	功能
1	VSS	0V	地
2	VDD	5.0V	正电源
3	V0	-12V∽-15V	液晶驱动负电源输入
4	RS	输入	通道选择信号
5	R/W	输入	读/写选择信号
6	E	输入	使能信号
7	DB0	三态	数据总线
8	DB1	三态	数据总线
9	DB2	三态	数据总线
10	DB3	三态	数据总线
11	DB4	三态	数据总线
12	DB5	三态	数据总线
13	DB6	三态	数据总线
14	DB7	三态	数据总线
15	/CS	输入	片选信号
16	/RST	输入	复位信号
17	VEE	-15V	液晶驱动负电源输出-15V
18	Not DISP OFF	--	NC for ON,GND for OFF
19	NC	--	空脚
20	LED+	+5V	LED Backlight

J1 模块的外部接口(T6963C)：

Pin no	Symbol	Level	Function
1	VSS	0V	Ground
2	VDD	5.0V	Supply voltage for logic
3	V0	-12V∽-15V	Operating voltage for LCD drive
4	C/D	H/L	H: Instruction code L: Data
5	/WR	L	Write signal
6	/RD	L	Read signal
7	DB0	H/L	Data bit 0
8	DB1	H/L	Data bit 1
9	DB2	H/L	Data bit 2
10	DB3	H/L	Data bit 3
11	DB4	H/L	Data bit 4
12	DB5	H/L	Data bit 5
13	DB6	H/L	Data bit 6
14	DB7	H/L	Data bit 7
15	/CE	L	Chip enable signal
16	/RESET	L	Reset signal
17	VEE	-15V	液晶驱动负电源输出-15V
18	Not DISP OFF	--	NC for ON,GND for OFF
19	FS	H/L	Font select signal (H:5X8 dots; L:8X8 dots)
20	LED+	+5V	LED Backlight

五、电气参数

1.ABSOLUTE MAXIMUM RATING

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage(logic)	VDD-VSS	-	-0.3	-	7	V
Supply Voltage(LCD Drive)	VDD-VO	-	VDD+0.3	-	VDD-0.3	V
Input Voltage	VI	-	-0.3	-	VDD+0.3	V
Operating Temperature	Topr	-	-10	-	+55	° C
Storage Temperature	Tstg	-	-20	-	+70	° C

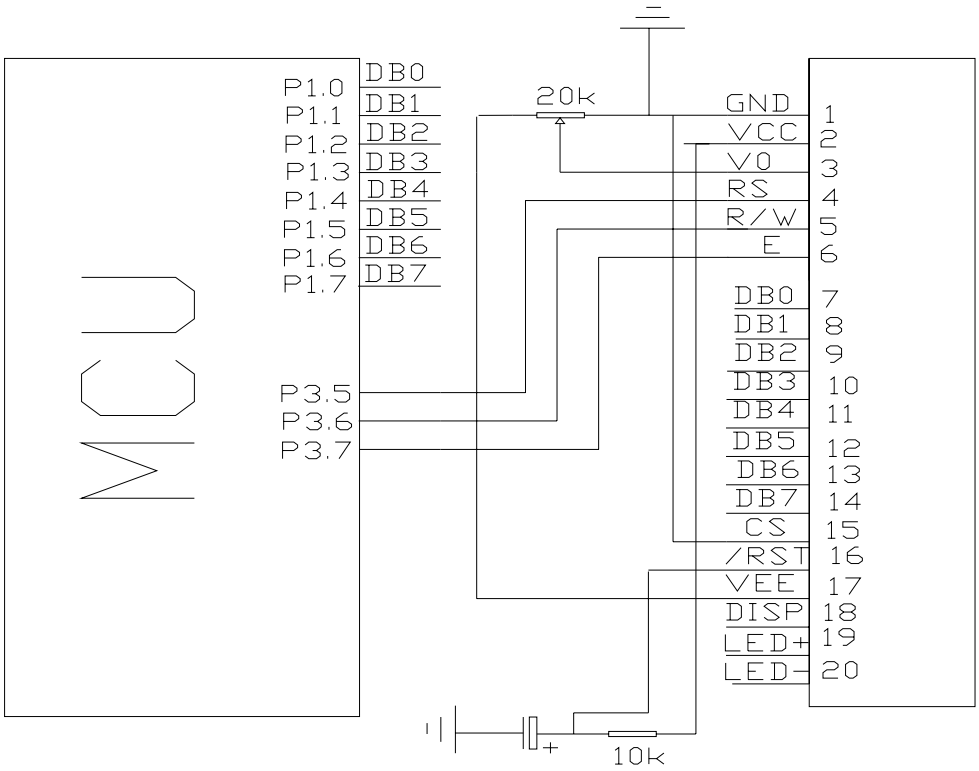
2.OPTICAL DATA Ta=25 ° C

Item	Symbol	Condition		Standard Value			Unit
				min	typ	max	
Supply voltage(Logic)	VDD-VSS	-		4.75	5	5.25	V
Supply voltage(LCD Drive)	VDD-VO	-		-	-	-	V
Supply current	IDD	-		-	12.0	17.0	mA
	IO	-		-	1.8	2.5	mA
EL Backlight current	IEL	-		-	100	-	mA
Input high voltage	VIH	High level		0.7VDD	-	VDD	V
Input low voltage	VIL	Low level		0	-	0.3VDD	V
Supply voltage for LCD Drive (1/80 duty)	VDD-VO	Ta=0 ° C		14.2	14.5	14.8	V
		Ta=25 ° C		13.3	13.6	13.9	V
		Ta=50 ° C		12.3	12.6	12.9	V
Contrast Ratio	CR			-	4	-	-
Viewing Angle	-	CR≥2	θ	-10	-	20	deg
			θ	60	-	120	deg
Response Time (rise)	Tr	Note 1	Ta=25 °	-	130	200	ms
Response Time (delay)	Td	Note 2	Ta=25 °	-	150	230	ms

六、应用举例

CM7401 与单片机 8031 的一种接口如下图.所示：

注:V0 为液晶驱动电压。此图为模块内自带负压的示例




```
;IC61830
                ORG     0000H
                LJMP    MAIN
                ORG     0003H

                LJMP    ZHONGDUAN
                ORG     0035H
        ZHONGDUAN:

        PUSH    ACC
        PUSH    DPL
        PUSH    DPH
        PUSH    PSW     SJMP    $
```

```
        POP     PSW
        POP     DPH
        POP     DPL
        POP     ACC
        RETI

;*********************************************

        RS      EQU     P3.5
        RW      EQU     P3.6
        E       EQU     P3.7
        DAT     EQU     50H
        COM     EQU     51H
        CUL     EQU     52H         ;
        ROW     EQU     53H
        COUNT   EQU     54H
        CFLUG   EQU     10H
        CODE1   EQU     55H
        PARA1   EQU     40H
        DAT1    EQU     41H

        addrL  equ 42h
        addrH equ 43h
;=============================================

    MAIN:
        NOP
        SETB    EA
        SETB    EX0
```

```
        SETB    IT0

        MOV     SP,#70H
        ANL     P1,#0E3H


        LCALL   CHARDISP
        LCALL   CLEAR
        LCALL   DELAY


        LCALL   TXDISP
        LCALL   CLEAR

        LCALL   BC

        LCALL   DELAY
        LCALL   DELAY
        LCALL   CLEAR
        lcall   zifu_test
        LCALL   LL
        LCALL   CM
        LCALL   DELAY
        LCALL   DELAY
        LCALL   DELAY
        LCALL   CLEAR
        LJMP    MAIN


;*************************************************
```

```
LL:
        MOV     COM,#0AH
        LCALL   PR1
        MOV     DAT,#00H
        LCALL   PR2
        MOV     COM,#0BH        ;
        LCALL   PR1
        MOV     DAT,#00H        ;
        LCALL   PR2
        MOV     R2,#128
L30:
        MOV     COM,#0CH
        LCALL   PR1
        MOV     R3,#30
L31:
        MOV     DAT,#0FFH
        LCALL   PR2
        DJNZ    R3,L31
        DJNZ    R2,L30
        LCALL   DELAY
        LCALL   DELAY
        LCALL   DELAY
        LCALL   DELAY
        LCALL   DELAY

        MOV     R2,#128
        MOV     COM,#0AH
        LCALL   PR1
        MOV     DAT,#00H
        LCALL   PR2
```

```
        MOV     COM,#0BH        ;
        LCALL   PR1
        MOV     DAT,#00H        ;
        LCALL   PR2

L32:
        MOV     COM,#0CH
        LCALL   PR1
        MOV     R3,#30
 L33:
        MOV     DAT,#0AAH
        LCALL   PR2
        DJNZ    R3,L33
        DJNZ    R2,L32
        LCALL   DELAY
        LCALL   DELAY
        LCALL   DELAY
        LCALL   DELAY

        MOV     R2,#128

         MOV    COM,#0AH        ;
        LCALL   PR1
        MOV     DAT,#00H
        LCALL   PR2
        MOV     COM,#0BH        ;
        LCALL   PR1
        MOV     DAT,#00H        ;
        LCALL   PR2
L34:
```

```
        MOV     COM,#0CH
        LCALL   PR1

        MOV     R3,#30

L35:
        MOV     DAT,#055H
        LCALL   PR2
        DJNZ    R3,L35
        DJNZ    R2,L34

        LCALL   DELAY
        LCALL   DELAY
        LCALL   DELAY
        LCALL   DELAY

        MOV     R2,#64

        MOV     COM,#0AH        ;
        LCALL   PR1
        MOV     DAT,#00H
        LCALL   PR2
        MOV     COM,#0BH        ;
        LCALL   PR1
        MOV     DAT,#00H        ;
        LCALL   PR2
L36:
```

```
        MOV     COM,#0CH
        LCALL   PR1


        MOV     R3,#30
L37:
        MOV     DAT,#00H
        LCALL   PR2
        DJNZ    R3,L37
        MOV     R3,#30
L37A:
        MOV     DAT,#0FFH
        LCALL   PR2
        DJNZ    R3,L37A

        DJNZ    R2,L36

        LCALL   DELAY
        LCALL   DELAY
        LCALL   DELAY
        LCALL   DELAY

         MOV    R2,#64

         MOV    COM,#0AH    ;
         LCALL  PR1
         MOV    DAT,#00H
         LCALL  PR2
         MOV    COM,#0BH    ;
```

```
        LCALL   PR1
        MOV     DAT,#00H        ;
        LCALL   PR2
L38:
        MOV     COM,#0CH
        LCALL   PR1

        MOV     R3,#30
L39:
        MOV     DAT,#0FFH
        LCALL   PR2
        DJNZ    R3,L39
        MOV     R3,#30
L39A:
        MOV     DAT,#00H
        LCALL   PR2
        DJNZ    R3,L39A

        DJNZ    R2,L38

        LCALL   DELAY
        LCALL   DELAY
        LCALL   DELAY
        LCALL   DELAY

        MOV     R2,#64

        MOV     COM,#0AH        ;
        LCALL   PR1
        MOV     DAT,#00H
```

```
        LCALL   PR2
        MOV     COM,#0BH        ;
        LCALL   PR1
        MOV     DAT,#00H        ;
        LCALL   PR2
L40:
        MOV     COM,#0CH
        LCALL   PR1

        MOV     R3,#30
 L41:
        MOV     DAT,#0AAH
        LCALL   PR2
        DJNZ    R3,L41
        MOV     R3,#30
L41A:
        MOV     DAT,#55H
        LCALL   PR2
        DJNZ    R3,L41A

        DJNZ    R2,L40
        LCALL   DELAY

        MOV     R2,#64

         MOV    COM,#0AH        ;
        LCALL   PR1
        MOV     DAT,#00H
```

```
        LCALL   PR2
        MOV     COM,#0BH        ;
        LCALL   PR1
        MOV     DAT,#00H        ;
        LCALL   PR2
  L42:

        MOV     COM,#0CH
        LCALL   PR1

        MOV     R3,#30
   L43:
        MOV     DAT,#055H
        LCALL   PR2
        DJNZ    R3,L43
        MOV     R3,#30
   L43A:

        MOV     DAT,#0AAH
        LCALL   PR2
        DJNZ    R3,L43A

        DJNZ    R2,L42
        LCALL   DELAY
        LCALL   DELAY
        LCALL   DELAY
        LCALL   DELAY
        RET
;***********************************************
zifu_test:
```

```
    mov     com,#00h
    lcallpr1
    mov     dat,#3ch
    lcallpr2
    mov     com,#0ah
    lcallpr1
    mov     dat,#00h
    lcallpr2
    mov     com,#0bh
    lcallpr1
    mov     dat,#00h
    lcallpr2

    mov     com,#0ch
    lcallpr1
    mov     r2,#16
zifu_col:
    mov     r3,#30
    mov     dptr,#zifu_tab
zifu_row:
    clr   a
    movc    a,@a+dptr
    mov     dat,a
    lcallpr2
    inc  dptr
    djnzr3,zifu_row
    djnzr2,zifu_col
    lcalldelay
    lcalldelay
    lcalldelay
```

```
    lcalldelay

    mov     com,#00h
    lcallpr1
    mov     dat,#32h
    lcallpr2
    ret
zifu_tab:
    ;db "0123456789ABCDEFGHIJKLMNOPQRST"
        DB " WELCOME TO BRILLIANT CRYSTAL "


    ;********读 BF 和 AC 值**********************
 PR0:
        ;PUSH     ACC
        SETB     RS
        SETB     RW
 PR01:
        MOV      P1,#0FFH
        SETB     E
        MOV      A,P1
        CLR      E
        JB       ACC.7,PR01
        ;POP      ACC
        RET
  ;*********写指令代码**********************
 PR1:
        ;PUSH      ACC
        SETB     RS
        SETB     RW
```

```
PR11:   MOV         P1,#0FFH
        SETB        E
        MOV          A,P1
        CLR         E
        JB          ACC.7,PR11

        SETB        RS
        CLR         RW
        MOV          P1,COM
        SETB        E
        CLR         E
        ;POP         ACC
        RET
  ;*********写显示数据************************
PR2:
        ;PUSH        ACC
        SETB        RS
        SETB        RW
PR21:   MOV         P1,#0FFH
        SETB        E
        MOV          A,P1
        CLR         E
        JB          ACC.7,PR21

        CLR         RS
        CLR         RW
        MOV          P1,DAT
        SETB        E
        CLR         E
        ;POP         ACC
```

```
        RET
;*********读显示数据**********************
    PR3:
        ;PUSH    ACC
        SETB     RS
        SETB     RW
    PR31:MOV     P1,#0FFH
        SETB     E
        MOV      A,P1
        CLR      E
        JB       ACC.7,PR31
        CLR      RS
        SETB     RW
        MOV      P1,#0FFH
        SETB     E
        MOV      DAT,P1
        CLR      E
        ;POP     ACC
        RET

  ;**********延时程序******************
    DELAY:
        MOV      R6,#00H
        MOV      R7,#00H
    DELAY1:
        NOP
        DJNZ     R7,DELAY1
        DJNZ     R6,DELAY1
        RET
  ;***********文本显示初始化子程序*******************
```

```
CHARDISP:
    MOV     COM,#00H        ;方式设置*
    LCALL   PR1
    MOV     DAT,#3CH        ;开显示设置，文本方式
    LCALL   PR2
    MOV     COM,#01H        ;字符体设置*
    LCALL   PR1
    MOV     DAT,#77H        ;字符字体为 8*8 点阵
    LCALL   PR2
    MOV     COM,#02H        ;显示域宽度设置*
    LCALL   PR1
    MOV     DAT,#1DH        ;一行占显示存储器 30 个字节
    LCALL   PR2
    MOV     COM,#03H        ;帧信号设置*
    LCALL   PR1
    MOV     DAT,#7FH        ;128 行扫描行
    LCALL   PR2
    MOV     COM,#04H        ;光标形状设置
    LCALL   PR1
    MOV     DAT,#07H        ;光标为底线形式
    LCALL   PR2
    MOV     COM,#08H        ;显示起始地址设置
    LCALL   PR1
    MOV     DAT,#00H        ;低字节为 00H
    LCALL   PR2
    MOV     COM,#09H        ;显示起始地址设置
    LCALL   PR1
    MOV     DAT,#00H        ;高字节为 00H
    LCALL   PR2
    RET
```

```
;***********图形显示初始化子程序*******************
TXDISP:
    MOV       COM,#00H        ;方式设置*
    LCALL     PR1
    MOV       DAT,#32H        ;开显示设置，图形方式
    LCALL     PR2
    MOV       COM,#01H        ;字符体设置*
    LCALL     PR1
    MOV       DAT,#77H        ;字符字体为 8*8 点阵
    LCALL     PR2
    MOV       COM,#02H        ;显示域宽度设置*
    LCALL     PR1
    MOV       DAT,#1DH        ;一行占显示存储器 32 个字节
    LCALL     PR2
    MOV       COM,#03H        ;帧信号设置*
    LCALL     PR1
    MOV       DAT,#7FH        ;128 行扫描行
    LCALL     PR2
    MOV       COM,#08H        ;显示起始地址设置
    LCALL     PR1
    MOV       DAT,#00H        ;低字节为 00H
    LCALL     PR2
    MOV       COM,#09H        ;显示起始地址设置
    LCALL     PR1
    MOV       DAT,#00H        ;高字节为 00H
    LCALL     PR2
    RET
;************文本清屏子程序******************
CLEAR:
    MOV       R2,#00H         ;设置循环量
```

```
        MOV         R3,#20H
        MOV         COM,#0AH        ;设置光标指针地址
        LCALL       PR1
        MOV         DAT,#00H
        LCALL       PR2
        MOV         COM,#0BH          ;方式设置*
        LCALL       PR1
        MOV         DAT,#00H          ;开显示设置，文本方式
        LCALL       PR2
        MOV         COM,#0CH          ;写数据指令代码
        LCALL       PR1
        MOV         DAT,#00H          ;数据为 0
    CLR1:
        LCALL       PR2               ;写数据
        DJNZ        R2,CLR1           ;循环
        DJNZ        R3,CLR1
        RET

;*************************************************

BC:

    mov     com,#00h
    lcallpr1
    mov     dat,#32h
    lcallpr2

        MOV         COM,#0AH        ;
        LCALL       PR1
        MOV         DAT,#00H
```

```
        LCALL     PR2
        MOV       COM,#0BH          ;
        LCALL     PR1
        MOV       DAT,#00H
        LCALL     PR2

        MOV       DPTR,#CCTAB
        MOV       COM,#0CH          ;写数据指令代码
        LCALL     PR1

        MOV       R3,#80h
BC0:    MOV       R2,#30
BC2:
            CLR       A
            MOVC      A,@A+DPTR
            MOV       DAT,A
            LCALL     PR2
            INC       DPTR
            DJNZ      R2,BC2
            DJNZ      R3,BC0
            RET

;============西文字符写入子程序设置==================
CM:

    mov     com,#0
    lcallpr1
    mov     dat,#32h
    lcallpr2
```

```
        MOV         COM,#0AH        ;设置光标指针地址
        LCALL       PR1
        MOV         DAT,#00H
        LCALL       PR2
        MOV         COM,#0BH          ;方式设置*
        LCALL       PR1
        MOV         DAT,#00H          ;开显示设置，文本方式
        LCALL       PR2

        MOV        DPTR,#CCTAB1
        MOV         COM,#0CH         ;写数据指令代码
        LCALL       PR1

         MOV         R3,#128
   CM0: MOV         R2,#30
   CM2:
             CLR          A
             MOVC         A,@A+DPTR
             MOV          DAT,A
             LCALL        PR2
             INC          DPTR
             DJNZ         R2,CM2
             DJNZ         R3,CM0
             RET
;==========汉字写入子程序设置====================
    WORDCC:
             MOV          CUL,#00H
             MOV          ROW,#00H
             MOV          A,#00H
             MOV          DPTR,#CCTAB
```

```
        MOV     B,#20H          ;一个汉字占 32 个字节
        MUL     AB
        ADD     A,DPL
        PUSH    ACC
        MOV     A,B
        ADDC    A,DPH
        PUSH    ACC
        MOV     A,ROW
        MOV     B,#1DH
        MUL     AB
        ADD     A,CUL
        MOV     CUL,A
        MOV     A,B
        ADDC    A,#00H
        MOV     ROW,A

WORDCC0:
        MOV     COM,#08H
        LCALL   PR1
        MOV     DAT,CUL
        LCALL   PR2
        MOV     COM,#09H
        LCALL   PR1
        MOV     DAT,CUL
        LCALL   PR2
        PUSH    DPL
        PUSH    DPH
        MOV     COM,#0CH
        LCALL   PR1
        POP     DPH
```

```
        POP     DPL
        MOV     R0,#20H
WORDCC1:
        MOV     R1,#128
WORDCC2:
        CLR     A
        MOVC    A,@A+DPTR
        PUSH    DPL
        PUSH    DPH
        MOV     DAT,A
        LCALL   CONVERT
        LCALL   PR2
        POP     DPH
        POP     DPL
        INC     DPTR
        DJNZ    R1,WORDCC2
        DJNZ    R0,WORDCC1
        POP     ACC
        POP     ACC
        RET
;**********  汉 字 字 模 结 构 转 换 子 程 序  **********
CONVERT:
        MOV     A,R1
        PUSH    ACC
        MOV     R1,#08H
        MOV     A,DAT
        MOV     DAT,#00H
CONVERT1:
        RRC     A
```

```
        XCH     A,DAT
        RLC     A
        XCH     A,DAT
        DJNZ    R1,CONVERT1
        POP     ACC
        MOV     R1,A
        RET
;****************************************

CCTAB1:
;--  宽度 x 高度=240x128  --
DB  0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH
DB  0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,001H,000H
DB  000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H
DB  000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,080H,0FDH,0FFH,0FFH,0FFH,0FFH
DB  0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH
DB  0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0BFH,005H,000H,000H,000H,000H,000H
DB  000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H
DB  000H,000H,000H,000H,000H,000H,000H,0A0H,0F5H,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH
DB  0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH
DB  0FFH,0FFH,0FFH,0FFH,0FFH,0AFH,015H,000H,000H,000H,000H,000H,000H,000H,000H,000H
DB  000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H
DB  000H,000H,000H,0A8H,015H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H
DB  000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H
DB  000H,0A8H,015H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H
DB  000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,0A8H
DB  015H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H
DB  000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,0A8H,015H,000H
DB  000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H
DB  000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,0A8H,015H,000H,000H,000H
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DB  000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H
DB  000H,000H,000H,000H,000H,000H,000H,000H,000H,0A8H,015H,000H,000H,000H,000H,000H
DB  000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H
DB  000H,000H,000H,000H,000H,000H,000H,0A8H,015H,000H,000H,000H,000H,000H,000H,000H
DB  000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H
DB  000H,000H,000H,000H,000H,0A8H,015H,000H,000H,000H,000H,000H,000H,000H,000H,000H
DB  000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H
DB  000H,000H,000H,0A8H,015H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H
DB  000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H
DB  000H,0A8H,015H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H
DB  000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,0A8H
DB  015H,000H,080H,007H,000H,000H,03FH,080H,0FFH,001H,000H,000H,0C0H,00FH,07EH,080H
DB  03FH,080H,0FFH,001H,078H,080H,087H,007H,000H,0F8H,0FFH,003H,000H,0A8H,015H,000H
DB  080H,007H,000H,0C0H,0FFH,080H,0FFH,007H,000H,000H,0C0H,00FH,07EH,0C0H,0FFH,080H
DB  0FFH,007H,078H,080H,087H,007H,000H,0F8H,0FFH,003H,000H,0A8H,015H,000H,080H,007H
DB  000H,0E0H,0FFH,081H,0FFH,00FH,000H,000H,0C0H,00FH,07EH,0E0H,0FFH,081H,0FFH,00FH
DB  078H,080H,087H,007H,000H,0F8H,0FFH,003H,000H,0A8H,015H,000H,080H,007H,000H,0F0H
DB  0E1H,083H,087H,01FH,000H,000H,0C0H,01FH,07FH,0F0H,0F1H,081H,087H,01FH,078H,080H
DB  087H,007H,000H,078H,000H,000H,000H,0A8H,015H,000H,080H,007H,000H,0F0H,0C0H,083H
DB  007H,03EH,000H,000H,0C0H,01FH,07FH,0F8H,0E0H,083H,007H,03EH,078H,080H,087H,007H
DB  000H,078H,000H,000H,000H,0A8H,015H,000H,080H,007H,000H,078H,0C0H,087H,007H,03EH
DB  000H,000H,0C0H,01FH,07FH,078H,0C0H,083H,007H,03EH,078H,080H,087H,007H,000H,078H
DB  000H,000H,000H,0A8H,015H,000H,080H,007H,000H,078H,080H,087H,007H,03CH,000H,000H
DB  0C0H,01FH,07FH,078H,0C0H,083H,007H,03CH,078H,080H,087H,007H,000H,078H,000H,000H
DB  000H,0A8H,015H,000H,080H,007H,000H,078H,080H,087H,007H,07CH,000H,000H,0C0H,01FH
DB  07FH,03CH,080H,087H,007H,07CH,078H,080H,087H,007H,000H,078H,000H,000H,000H,0A8H
DB  015H,000H,080H,007H,000H,03CH,080H,087H,007H,078H,000H,000H,0C0H,0BFH,07FH,03CH
DB  080H,087H,007H,078H,078H,080H,087H,007H,000H,078H,000H,000H,000H,0A8H,015H,000H
DB  080H,007H,000H,03CH,000H,080H,007H,078H,000H,000H,0C0H,0BFH,07FH,03CH,080H,087H
DB  007H,078H,078H,080H,087H,007H,000H,078H,000H,000H,000H,0A8H,015H,000H,080H,007H
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DB  000H,03CH,000H,080H,007H,078H,000H,000H,0C0H,0BFH,07FH,03CH,080H,087H,007H,078H
DB  078H,080H,087H,007H,000H,0F8H,0FFH,001H,000H,0A8H,015H,000H,080H,007H,000H,03CH
DB  000H,080H,007H,078H,000H,000H,0C0H,0BFH,07FH,03CH,080H,087H,007H,078H,078H,080H
DB  087H,007H,000H,0F8H,0FFH,001H,000H,0A8H,015H,000H,080H,007H,000H,03CH,000H,080H
DB  007H,078H,000H,000H,0C0H,0BFH,07FH,03CH,080H,087H,007H,078H,078H,080H,087H,007H
DB  000H,0F8H,0FFH,001H,000H,0A8H,015H,000H,080H,007H,000H,03CH,000H,080H,007H,078H
DB  000H,000H,0C0H,0FBH,07BH,03CH,080H,087H,007H,078H,078H,080H,087H,007H,000H,078H
DB  000H,000H,000H,0A8H,015H,000H,080H,007H,000H,03CH,000H,080H,007H,078H,000H,000H
DB  0C0H,0FBH,07BH,03CH,080H,087H,007H,078H,078H,080H,087H,007H,000H,078H,000H,000H
DB  000H,0A8H,015H,000H,080H,007H,000H,03CH,080H,087H,007H,078H,000H,000H,0C0H,0FBH
DB  07BH,03CH,080H,087H,007H,078H,078H,080H,087H,007H,000H,078H,000H,000H,000H,0A8H
DB  015H,000H,080H,007H,000H,03CH,080H,087H,007H,078H,000H,000H,0C0H,0FBH,07BH,03CH
DB  080H,087H,007H,078H,078H,080H,087H,007H,000H,078H,000H,000H,000H,0A8H,015H,000H
DB  080H,007H,000H,03CH,080H,087H,007H,07CH,000H,000H,0C0H,0FBH,07BH,03CH,080H,087H
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DB  000H,078H,080H,087H,007H,03CH,000H,000H,0C0H,0F3H,079H,03CH,080H,087H,007H,03CH
DB  078H,080H,087H,007H,000H,078H,000H,000H,000H,0A8H,015H,000H,080H,007H,000H,078H
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DB  087H,007H,000H,078H,000H,000H,000H,0A8H,015H,000H,080H,007H,000H,0F8H,0C0H,083H
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DB  000H,000H,000H,0A8H,015H,000H,080H,0FFH,07FH,0E0H,0FFH,081H,0FFH,00FH,000H,000H
DB  0C0H,0F3H,079H,0F0H,0F1H,081H,0FFH,00FH,0F0H,0FFH,083H,0FFH,07FH,0F8H,0FFH,007H
DB  000H,0A8H,015H,000H,080H,0FFH,07FH,0C0H,0FFH,080H,0FFH,007H,000H,000H,0C0H,0E3H
DB  078H,0E0H,0FFH,080H,0FFH,007H,0E0H,0FFH,081H,0FFH,07FH,0F8H,0FFH,007H,000H,0A8H
DB  015H,000H,080H,0FFH,07FH,000H,03FH,080H,0FFH,000H,000H,000H,0C0H,0E3H,078H,0C0H
DB  0FFH,080H,0FFH,000H,080H,07FH,080H,0FFH,07FH,0F8H,0FFH,007H,000H,0A8H,015H,000H
DB  000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,080H,03FH,000H
DB  000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,0A8H,015H,000H,000H,000H
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DB  000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H
DB  000H,000H,000H,000H,000H,000H,000H,000H,000H,0A8H,015H,000H,000H,000H,000H,000H
DB  000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H
DB  000H,000H,000H,000H,000H,000H,000H,0A8H,015H,000H,000H,000H,000H,000H,000H,000H
DB  000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H
DB  000H,000H,000H,000H,000H,0A8H,015H,000H,000H,000H,000H,000H,000H,000H,000H,000H
DB  000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H
DB  000H,000H,000H,0A8H,015H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H
DB  000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H
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DB  000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,0A8H
DB  015H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H
DB  000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,0A8H,015H,000H
DB  000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H
DB  000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,0A8H,015H,000H,000H,000H
DB  000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H
DB  000H,000H,000H,000H,000H,000H,000H,000H,000H,0A8H,015H,000H,000H,000H,000H,000H
DB  000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H
DB  000H,000H,000H,000H,000H,000H,000H,0A8H,015H,000H,000H,000H,000H,000H,000H,000H
DB  000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H
DB  000H,000H,000H,000H,000H,0A8H,015H,000H,000H,0F0H,003H,000H,0F8H,000H,0F8H,003H
DB  000H,000H,000H,0C0H,001H,000H,03FH,000H,0F0H,003H,0F8H,01FH,000H,000H,000H,000H
DB  000H,000H,000H,0A8H,015H,000H,000H,0F8H,00FH,000H,0F8H,000H,0FCH,007H,000H,000H
DB  000H,0C0H,001H,080H,0FFH,000H,0FCH,00FH,0F8H,07FH,000H,000H,000H,000H,000H,000H
DB  000H,0A8H,015H,000H,000H,0FCH,01FH,000H,0FCH,000H,0FEH,00FH,000H,000H,000H,0E0H
DB  001H,0C0H,0FFH,001H,0FEH,01FH,0F8H,0FFH,000H,000H,000H,000H,000H,000H,000H,0A8H
DB  015H,000H,000H,03EH,01EH,000H,0FCH,000H,01FH,01FH,000H,000H,000H,0F0H,001H,0E0H
DB  0E3H,001H,03EH,01FH,078H,0F8H,001H,000H,000H,080H,007H,000H,000H,0A8H,015H,000H
DB  000H,01EH,03EH,000H,0FEH,000H,00FH,03EH,000H,000H,000H,0FEH,001H,0E0H,0E1H,003H
DB  01FH,03EH,078H,0E0H,003H,000H,000H,080H,007H,000H,000H,0A8H,015H,000H,000H,00FH
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DB  03CH,000H,0FFH,080H,007H,03CH,000H,000H,000H,0FEH,001H,0F0H,0C0H,003H,00FH,03CH
DB  078H,0E0H,003H,000H,000H,080H,007H,000H,000H,0A8H,015H,000H,000H,00FH,03CH,000H
DB  0FFH,080H,007H,03CH,000H,000H,000H,0E0H,001H,0F0H,0C0H,003H,00FH,03CH,078H,0C0H
DB  003H,000H,000H,080H,007H,000H,000H,0A8H,015H,000H,000H,00FH,03CH,080H,0FFH,080H
DB  007H,038H,000H,000H,000H,0E0H,001H,0F0H,0C0H,003H,00FH,03CH,078H,0C0H,007H,000H
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DB  000H,000H,000H,0E0H,001H,0F0H,0C0H,003H,00FH,03CH,078H,080H,007H,000H,000H,080H
DB  007H,000H,000H,0A8H,015H,000H,000H,000H,03CH,0C0H,0F3H,0C0H,003H,078H,07CH,0E0H
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DB  001H,000H,0E0H,001H,03EH,01FH,078H,080H,007H,0FEH,00FH,0FCH,0FFH,001H,000H,0A8H
DB  015H,000H,000H,000H,01FH,0E0H,0F1H,0C0H,003H,078H,0F0H,0F0H,000H,0E0H,001H,000H
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DB  0FCH,00FH,078H,080H,087H,01FH,03FH,080H,007H,000H,000H,0A8H,015H,000H,000H,0C0H
DB  007H,0F0H,0F0H,0C0H,003H,078H,0E0H,079H,000H,0E0H,001H,000H,07CH,000H,01EH,01EH
DB  078H,080H,087H,007H,03CH,080H,007H,000H,000H,0A8H,015H,000H,000H,0E0H,003H,078H
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DB  0C7H,007H,07CH,080H,007H,000H,000H,0A8H,015H,000H,000H,0F0H,001H,07CH,0F0H,0C0H
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DB  000H,0A8H,015H,000H,000H,03EH,000H,0FCH,0FFH,087H,007H,03CH,080H,01FH,000H,0E0H
DB  001H,0E0H,003H,080H,007H,078H,078H,0C0H,0C3H,003H,078H,080H,007H,000H,000H,0A8H
DB  015H,000H,000H,01FH,000H,000H,0F0H,080H,007H,03CH,0C0H,03FH,000H,0E0H,001H,0F0H
DB  001H,080H,007H,078H,078H,0C0H,0C3H,007H,07CH,080H,007H,000H,000H,0A8H,015H,000H
DB  000H,00FH,000H,000H,0F0H,000H,00FH,01EH,0E0H,07FH,000H,0E0H,001H,0F0H,000H,080H
DB  00FH,07CH,078H,0E0H,081H,007H,03CH,080H,007H,000H,000H,0A8H,015H,000H,080H,007H
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DB  078H,0F8H,081H,01FH,03FH,080H,00FH,003H,000H,0A8H,015H,000H,080H,0FFH,03FH,000H
DB  0F0H,000H,0FEH,00FH,0F0H,0F0H,000H,0E0H,001H,0F8H,0FFH,003H,0FFH,03FH,0F8H,0FFH
DB  000H,0FFH,01FH,000H,0FFH,003H,000H,0A8H,015H,000H,080H,0FFH,03FH,000H,0F0H,000H
DB  0FCH,007H,0F8H,0F0H,001H,0E0H,001H,0F8H,0FFH,003H,0FEH,01FH,0F8H,07FH,000H,0FEH
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CCTAB:
;  宽×高（像素）：240×128
;  字模格式/大小 ：单色点阵液晶字模，横向取模，字节倒序/3840 字节
;  数据转换日期  ：2006-7-27 10:34:18
;------------------------------------------------------------------------------
;DB 0F0H,080H,01EH,;宽的像素数,高的像素数，宽的字节数，参数设置可选
DB 0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH
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DB 0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH
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DB 000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H
DB 000H,000H,000H,000H,000H,000H,000H,000H,000H,0C0H,003H,000H,000H,000H,000H,000H
DB 000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H
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DB 000H,000H,000H,000H,000H,0C0H,003H,0C0H,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH,0FFH
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DB 06DH,000H,030H,018H,000H,0C3H,006H,0FEH,0FFH,001H,038H,000H,0B0H,0F9H,007H,030H
DB 018H,000H,080H,01BH,000H,0C6H,063H,000H,033H,0C7H,0E0H,07FH,033H,0F0H,036H,006H
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DB 0FFH,018H,000H,0C6H,063H,000H,0B6H,09DH,001H,063H,033H,080H,003H,00EH,0F0H,01FH
DB 000H,003H,006H,030H,030H,000H,0FCH,00FH,0B0H,019H,006H,018H,070H,000H,000H,018H
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DB 063H,000H,018H,08CH,001H,063H,033H,0F8H,0CFH,000H,0E3H,0C6H,080H,0CFH,006H,078H
DB 086H,001H,01BH,00CH,030H,07BH,006H,086H,0C1H,001H,0C3H,018H,000H,0C6H,063H,000H
DB 0D8H,0FFH,000H,073H,033H,0C0H,061H,000H,07FH,0FEH,0C0H,01FH,03EH,03EH,0CCH,0C0H
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DB 01EH,076H,00EH,000H,000H,0C6H,063H,000H,0C0H,099H,031H,0CFH,018H,021H,0C6H,0C8H
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DB 000H,063H,0C0H,018H,0F3H,0CCH,080H,061H,0C0H,080H,061H,0C6H,018H,000H,000H,0C6H
DB 063H,000H,0C0H,098H,031H,086H,081H,010H,0ACH,085H,0B5H,0B0H,016H,0C0H,083H,061H
DB 0C0H,018H,0F3H,0CCH,080H,061H,0C0H,080H,061H,0C6H,018H,000H,000H,0C6H,063H,000H
DB 0C0H,098H,031H,086H,081H,010H,0ACH,085H,0B5H,0B0H,016H,000H,0C7H,060H,0C0H,018H
DB 003H,0CCH,080H,061H,0C0H,080H,061H,0C6H,018H,000H,000H,0C6H,063H,000H,0C0H,098H
DB 031H,086H,081H,010H,038H,007H,0E7H,0E0H,01CH,020H,0C4H,0E0H,0C8H,018H,003H,0CCH
DB 091H,061H,0C0H,091H,061H,0C6H,018H,000H,000H,0C6H,063H,000H,0C0H,098H,0B5H,0CEH
DB 058H,008H,018H,003H,063H,060H,00CH,063H,064H,0C8H,0C7H,018H,003H,08CH,00FH,0F3H
DB 086H,00FH,033H,0C6H,018H,000H,000H,0C6H,063H,000H,0E0H,0BDH,073H,076H,058H,008H
DB 010H,002H,042H,040H,008H,0A3H,0F3H,08FH,0E3H,0BDH,007H,01EH,007H,06EH,006H,007H
DB 01EH,0EFH,03DH,000H,000H,0C6H,063H,000H,000H,000H,000H,006H,000H,000H,000H,000H
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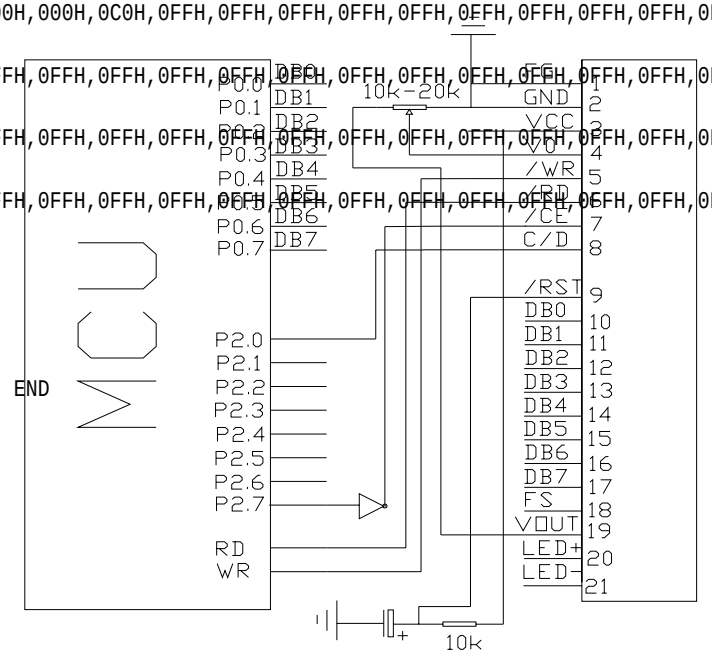
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