

# 图形点阵液晶显示模块使用手册

CM240128-3SLYB

广州市瑞通科技有限公司

广州新赛格电子城三楼B 3 3 1 3 档

TEL : 0 2 0 - 8 8 4 0 3 2 6 8

FAX : 0 2 0 - 8 7 5 8 0 4 8 0

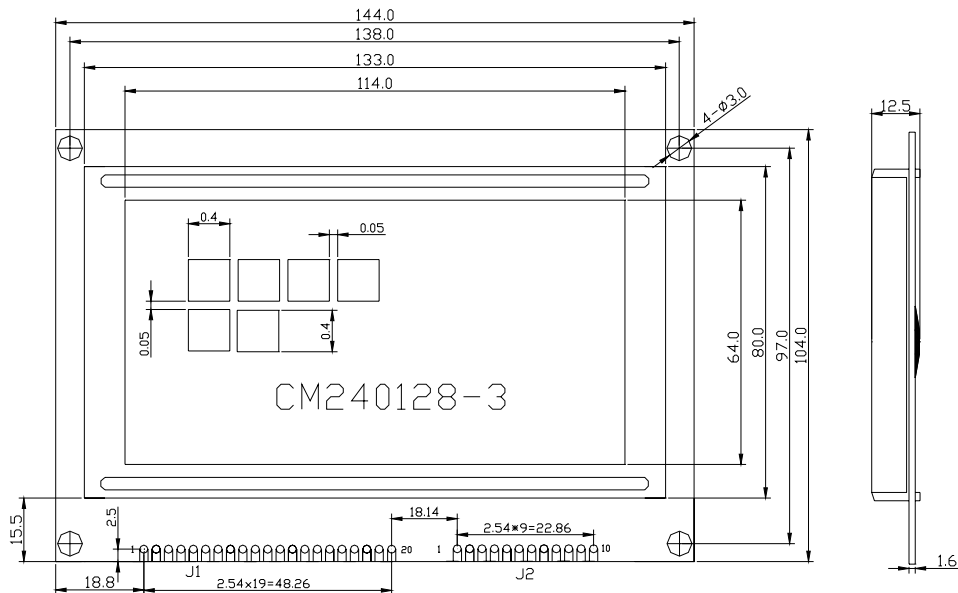
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CM240128-3 是一种图形点阵液晶显示器, 它由控制器 HD61830、行驱动器 / 列驱动器及 240 × 128 全点阵液晶显示器组成. 可完成图形显示, 也可以显示 15 × 8 个(16 × 16 点阵)汉字主要技术参数和性能:

- 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 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、兰膜、黑白膜
- 9. 背光特性: LED 背光 (黄绿光、兰光、白光) 或 EL 背光
- 10. 模块封装方式: SMT
- 11. 视角方向: 6:00
- 12. 功耗: 模块自带负压

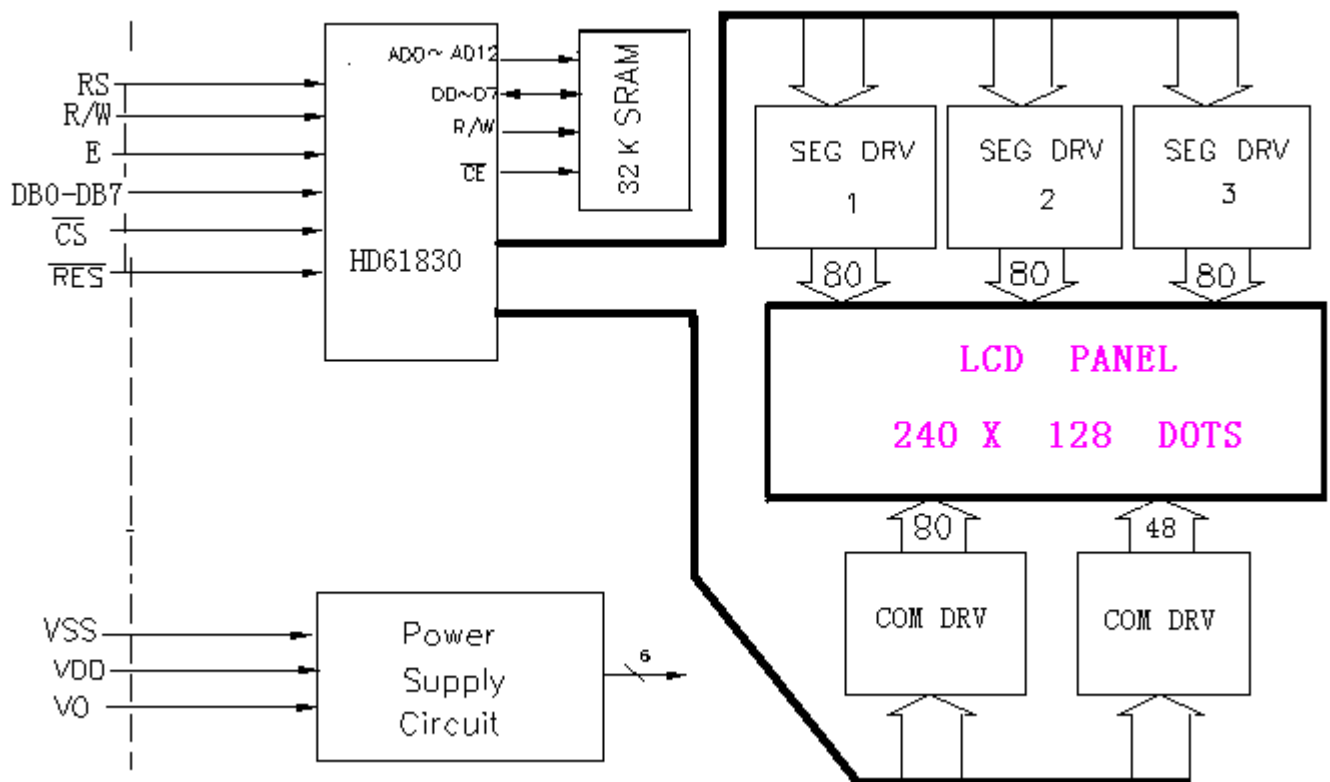
二、外形尺寸图



外形尺寸一览

ITEM	NOMINAL DIMEN	UNIT
模块体积	144 × 104 × 12.5	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	Ground
9	VOUT	-15V	Output voltage for LCD
10	VO	-12 -15V	Input voltage for LCD

J1 模块的外部接口：

序号	符号	状态	功能
1	VSS	0V	地
2	VDD	5.0V	正电源
3	VO	-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	LED+ / VEE	--	LED 背光源+5V / 液晶驱动负电源输出-15V
18	LED- / NC	--	LED 背光源 0V / NC
19	NC / LED+	+5V	NC / LED(+5V)Backlight+5V
20	NC / LED-	0V	NC / LED(0V)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	-	+60	°C

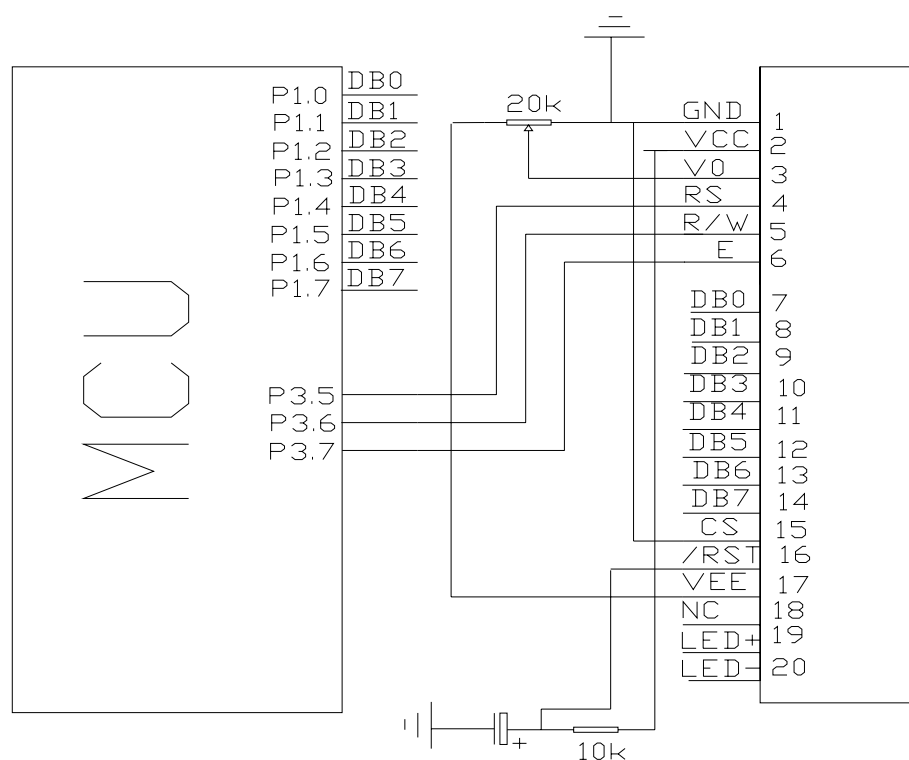
### 2. OPTICAL DATA Ta=25 °C

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		-10	-	20	deg
				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

CM240128-3 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
    lcall  pr2
    inc    dptr
    djnz   r3,zifu_row
    djnz   r2,zifu_col
    lcall  delay
    lcall  delay
    lcall  delay
    lcall  delay

    mov    com,#00h
    lcall  pr1
    mov    dat,#32h
    lcall  pr2
    ret

zifu_tab:
    ;db "0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ"
        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

```

---

```

MOV    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,000H,080H,0FDH,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 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  
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DB 01EH, 000H, 0E0H, 0E1H, 001H, 03CH, 0C0H, 039H, 000H, 080H, 003H, 03CH, 0E0H, 001H, 000H, 0A8H

DB 015H, 000H, 0C0H, 003H, 03CH, 03CH, 0C0H, 0C3H, 0FFH, 007H, 000H, 00FH, 000H, 00FH, 00FH, 000H

DB 0F0H, 0E0H, 001H, 03CH, 0E0H, 079H, 000H, 080H, 001H, 03CH, 0F0H, 001H, 000H, 0A8H, 015H, 000H

DB 0C0H, 003H, 03CH, 03CH, 0C0H, 0C3H, 0FFH, 00FH, 000H, 00FH, 000H, 09FH, 00FH, 000H, 0F8H, 0E0H

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DB 0E0H, 079H, 000H, 0C0H, 000H, 0FCH, 07FH, 000H, 000H, 0A8H, 015H, 000H, 0C0H, 0FFH, 03FH, 03CH



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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

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; 数据转换日期 : 2006-7-27 10:34:18

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; 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

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DB 07FH,0C0H,003H,07EH,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,0F8H,0C0H

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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,0C6H,063H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H,000H

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DB 000H, 0C6H, 063H, 000H, 000H, 000H, 000H, 000H, 000H, 000H, 000H, 000H, 000H, 000H, 000H, 000H

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DB 063H, 000H, 000H, 000H, 000H, 063H, 030H, 000H, 01FH, 000H, 030H, 038H, 000H, 00EH, 00EH, 070H

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