

日立 SX19V007 液晶屏驱动程序

液晶控制器: CX135, 显示 27 色, 0755-81261729 QQ:191981784

```
FX      EQU    7FH          ;text x dot size FX+1
FY      EQU    7EH          ;text y dot size FY+1
CR      EQU    7DH          ;character return APL-1
TC_P   EQU    7CH          ;fram purse 12MHz>=[(TC_P)*9+1]*L_F*70Hz
L_F    EQU    7BH          ;y duty L_F+1
APL    EQU    7AH          ;number of text per line
APH    EQU    79H

START:
        MOV    FX,#0fH        ;can change 0f
        MOV    FY,#00H         ;graphic 00
        MOV    CR,#79          ;640/8 - 1
        MOV    TC_P,#44         ;>= 40 + 4
        MOV    L_F,#59          ; 480/8 - 1
        MOV    APL,#080H
        MOV    APH,#02H

        CALL   RESET_P11
        CALL   DELAY2
        CALL   SET_P11
        CALL   DELAY2
        NOP

;*****SYSTEM_SET:
SYSTEM_SET:
        MOV    A,#40H
        CALL  COM_W
        MOV    A,#30H
        CALL  DATA_W
        MOV    A,FX            ;FX
        CALL  DATA_W
        MOV    A,FY            ;FY
        CALL  DATA_W
        MOV    A,CR            ;CR
        CALL  DATA_W
        MOV    A,TC_P          ;TC/R
        CALL  DATA_W
        MOV    A,L_F           ;L/F
        CALL  DATA_W
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        MOV    A,APL           ;APL
        CALL   DATA_W
        MOV    A,APH           ;APH
        CALL   DATA_W
SYSTEM_SET2:      ; COMMAND 80H
        MOV    A,#80H
        CALL   COM_W
        MOV    A,#0BH           ; CSTN 27 color mode
        CALL   DATA_W
;*****
SCROLL:
        MOV    A,#44H
        CALL   COM_W
        MOV    A,#00H           ;SAD1L
        CALL   DATA_W
        MOV    A,#00H           ;SAD1H
        CALL   DATA_W
        MOV    A,#0EFH          ;
        CALL   DATA_W
;*****
CSR_FORM:
        MOV    A,#5DH
        CALL   COM_W
        MOV    A,#00H           ;can change, must <= fx
        CALL   DATA_W
        MOV    A,#80H           ;graphic 80H
        CALL   DATA_W
;*****
HDOT_SCR:
        MOV    A,#5AH
        CALL   COM_W
        MOV    A,#00H           ;NO SCROLL
        CALL   DATA_W
;*****
OVERLAY:
        MOV    A,#5BH
        CALL   COM_W
        MOV    A,#0CH           ;layer1 only
        CALL   DATA_W
;*****
CSR_DIR:
        MOV    A,#4CH
        CALL   COM_W
        CALL   CL1

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;*****
;DISP_ON:
    MOV      A,#59H
    CALL     COM_W
    MOV      A,#55H
    CALL     DATA_W
;*****
;      SHOW BEGIN
;*****
;waitl:  CALL    LRA
        CALL    DELAY
        CALL    LGA
        CALL    DELAY
        CALL    LBA
        CALL    DELAY
        CALL    LBB
        CALL    DELAY
        CALL    LBW
        CALL    DELAY
        JMP     waitl
;*****
;      SHOW WINSTAR LOGO
;*****
LRA:
        CALL    CL1
        CALL    POS1
        MOV     A,#42H
        CALL    COM_W
        MOV     R7,#160
LR:      MOV     R6,#160
LR1:     MOV     R5,#12
LR2:     MOV     A,#30H
        CALL    DATA_W
        DJNZ   R5,LR2
        DJNZ   R6,LR1
        DJNZ   R7,LR
        RET
LGA:     CALL    CL1
        CALL    POS1
        MOV     A,#42H
        CALL    COM_W
        MOV     R7,#160
LG:      MOV     R6,#160
LG1:     MOV     R5,#12

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LG2:      MOV      A,#12
          CALL     DATA_W
          DJNZ    R5,LG2
          DJNZ    R6,LG1
          DJNZ    R7,LG
          RET
LBA:      CALL    CL1
          CALL    POS1
          MOV     A,#42H
          CALL    COM_W
          MOV     R7,#160
LB:       MOV     R6,#160
LB1:      MOV     R5,#12
LB2:      MOV     A,#03H
          CALL    DATA_W
          DJNZ    R5,LB2
          DJNZ    R6,LB1
          DJNZ    R7,LB
          RET
LBB:      CALL    CL1
          CALL    POS1
          MOV     A,#42H
          CALL    COM_W
          MOV     R7,#160
LBC:      MOV     R6,#160
LBC1:     MOV     R5,#12
LBC2:     MOV     A,#0FFH
          CALL    DATA_W
          DJNZ    R5,LBC2
          DJNZ    R6,LBC1
          DJNZ    R7,LBC
          RET
LBW:      CALL    CL1
          CALL    POS1
          MOV     A,#42H
          CALL    COM_W
          MOV     R7,#160
LBZ:       MOV     R6,#160
LBZ1:     MOV     R5,#12
LBZ2:     MOV     A,#00H
          CALL    DATA_W
          DJNZ    R5,LBZ2
          DJNZ    R6,LBZ1
          DJNZ    R7,LBZ

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        RET

;*****COM_W*****
COM_W:
    MOV DPTR, #0100H
    MOVX @DPTR, A
    NOP
    RET

;*****DATA_W*****
DATA_W:
    MOV DPTR, #0000H
    MOVX @DPTR, A
    NOP
    RET

DATA_R:
    MOV DPTR, #0100H
    MOVX A, @DPTR
    NOP
    RET

FLAG_R:
    MOV DPTR, #0000H
    MOVX A, @DPTR
    NOP
    RET

SET_P11:
    MOV 90H, #0FFH
    RET

RESET_P11:
    MOV 90H, #0FDH
    RET

;*****CL1*****
CL1:
    CALL POS1
    MOV A,#42H ;写指令代码
    CALL COM_W ;写指令
    MOV R0,#240
L1:   MOV R1,#160
L2:   MOV R2,#08
L3:   MOV A,#00H
    CALL DATA_W

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DJNZ    R2,L3
DJNZ    R1,L2
DJNZ    R0,L1
RET
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;*****
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;POSITION 1
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POS1:
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    MOV    A,#46H
    CALL   COM_W
    MOV    A,#00H
    CALL   DATA_W
    MOV    A,#00H
    CALL   DATA_W
    MOV    A,#00H
    CALL   DATA_W
    RET
```

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;*****
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DELAY:
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    MOV    R7,#40
K:     MOV    R6,#100
K0:    MOV    R5,#250
K1:    DJNZ   R5,K1
        DJNZ   R6,K0
        DJNZ   R7,K
        RET
```

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DELAY2:
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    MOV    R5,#250
K12:   DJNZ   R5,K12
        RET
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;*****
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END
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