

Serial LCD specification

Product specifications

Resolution	16X2
Backlight color	Yellow, Blue
Communication Protocol	UART
Band Rate	9600
RoSH	Yes

Recommended operating condition

Power supply voltage	5 VDC
Current consumption	60mA (Blue) 70mA (Yellow)
Input Voltage VH	2.7V (Min) 3.3V (Type) 3.6V(Max)
Input Voltage VL	-0.3V (Min) 0V (Type) 0.9V(Max)
Operation Temperature	20°C~60°C

Commands description

1. Command format

The format of all commands is CMD+[Parameter]+';', the [parameter] is option, and the ';' is necessary.

2. Command list and parameter

1) Screen Clean

CMD : sc , Parameter : Null;

Example :

sc; -----Screen clean.

2) Set backlight

CMD : sb, Parameter :1/0 [1: Set the backlight on; 0: Set the backlight off]

Example :

sb1; -----Set the backlight on.

sb0; -----Set the backlight off.

3) Set coordinate

CMD : sd, Parameter :X,Y [X: the column (X = [0,1]); Y: the row (Y = [0:15])]

Example :

sd0,0; -----Set the coordinate to column 0 and row 0.

Sd1,15; -----Set the coordinate to column 1 and row 15

- 4) Send string
CMD : ss, Parameter : Char String
Example:
ss12345; -----Send the char string to display in coordinate.
 - 5) Set the cursor on/off
CMD su, Parameter: 0/1 [0: Set the cursor off, 1: Set the cursor on]
Example:
su0; -----Set the cursor off
su1; -----Set the cursor on
 - 6) Set the cursor type
CMD sf, Parameter: 0/1 [0: Set the cursor blink off, 1: Set the cursor blink on]
Example:
sf0; ----- Set the cursor blink off
sf1; ----- Set the cursor blink on
 - 7) Move the cursor
CMD sm, Parameter: 0/1 [0: Move the cursor left , 1: Move the cursor right]
Example:
sm0; ----- Move the cursor left
sm1; ----- Move the cursor right
3. Return message
O: OK, the mean is the command is correct and been done
E: Error, the mean is the command is error.
 4. Command corresponding time
All the command corresponding time is < 50ms.

User notes

1. All the commands are lower case, and the end of command must be the char ';'.