

CODIGO	DESCRIPCION
WS-USB	Placa para demo alfanumericos

1.Mechanical Data

Item	Standard Value	Unit
Module Dimension	58x32.25	mm
Mounting hole	3.0	mm

2.Electrical Characteristics

Item	Symbol	Condition	Standard Value			Unit
			Min.	Typ.	Max.	
Input Voltage	VDD	VDD=5v	4.5	5.0	5.5	V
Supply Current	VIO	VDD=5V	7.5	10	12.0	mA

3.Feature

1. for character module control only (unless 4004).

Pin NO.	Symbol	Function
1	VDD	Dc+5V
2	USBDM	USB data signal Minus
3	USBDP	USB data signal Plus
4	GND	Power Ground
5	GND	Power Ground

4.Communication Protocol:

Start Code	Data Type	Data	End Code
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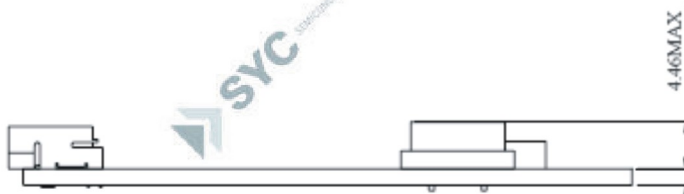
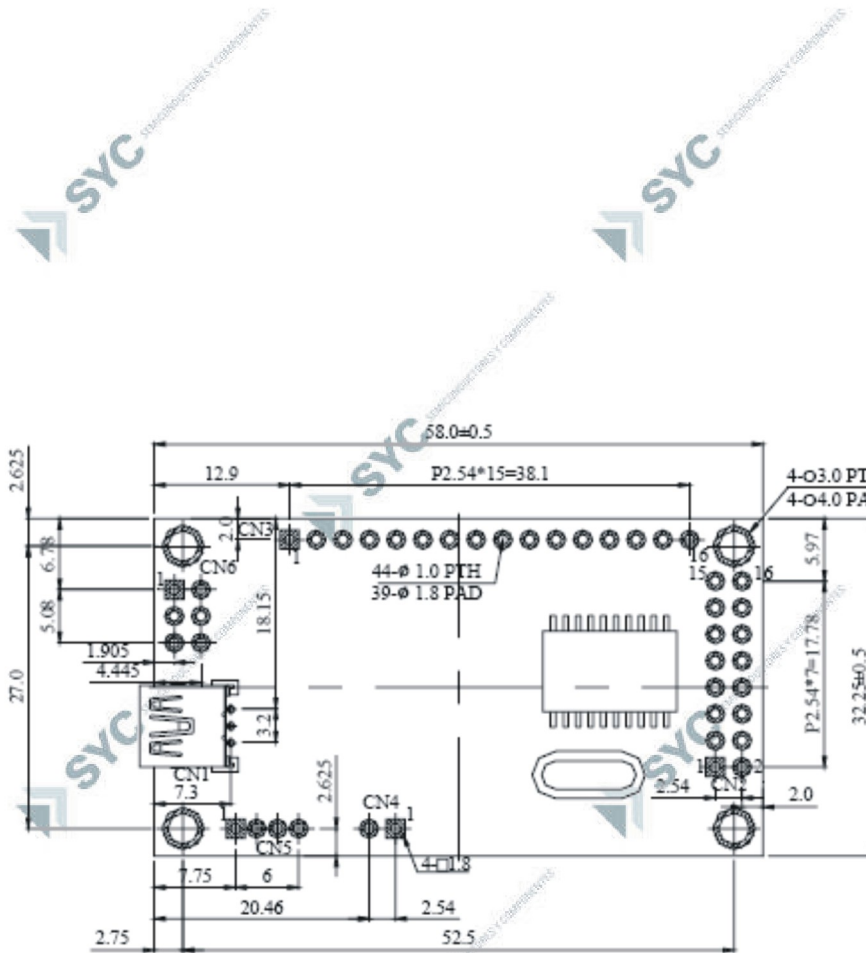
- (1) Baud Rate: 9600,N,8,1
- (2) Start Code: It means the package at 1st Byte, The value of Start Code is "E7H"
- (3) Data Type: It describes the usage of data. It has 3 types will show as below:
 - [1] "C" means **Command**.
 - [2] "D" means **Data**.
 - [3] "B" means **Backlight Control**;
 Data == 0 means Backlight OFF.
 Data == 1 means Backlight ON.
- (4) Data: It is for LCD control use.
- (5) End Code: It means the package at last Byte, The value of End Code is "7EH".

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CN2&CN3

PIN NO.	SYMBOL
1	Vss
2	Vdd
3	Vo
4	RS
5	R/W
6	E
7	DB0
8	DB1
9	DB2
10	DB3
11	DB4
12	DB5
13	DB6
14	DB7
15	A/Vee
16	K

CN6

PIN NO.	SYMBOL
1	Vcc
2	USBDM
3	USBDP
4	GND
5	GND

CN4

PIN NO.	SYMBOL
1	Vcc
2	GND

The non-specified tolerance of dimension is ±0.2mm.

SCALE: 2/1	UNIT: mm	華凌光電股份有限公司 WINSTAR DISPLAY CO.
REV: 0	PAGE: 1/2	
APPROVE		MODEL 95-T0008
CHECK		TITLE LCM DRAWING
DRAW	Anna 08/07/06	DWG NO. T-950801