

XL1035 Scanner Module

XL1035 module include the scan engine and decoder. They are connect by 8pin flat cable, and it belong to internal connection. Users do not need to learn more about its interface definitions. A 10pin cable on decoder board available for users, to control the 10 pin cable and that means will control this whole module. The module support 5V and 3.3V (in fact boost 3.3V to 5V), the two input voltage available for user choose. there are have single and continuous trigger mode.

XL1035 Size: 40mm*33mm*17mm

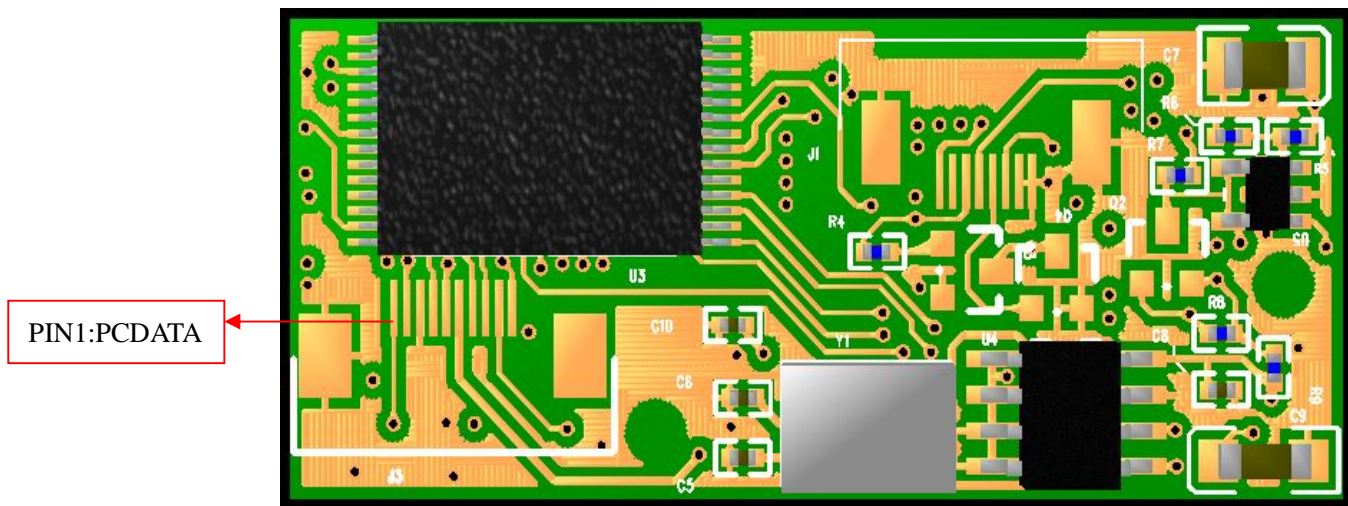


Figure (1)

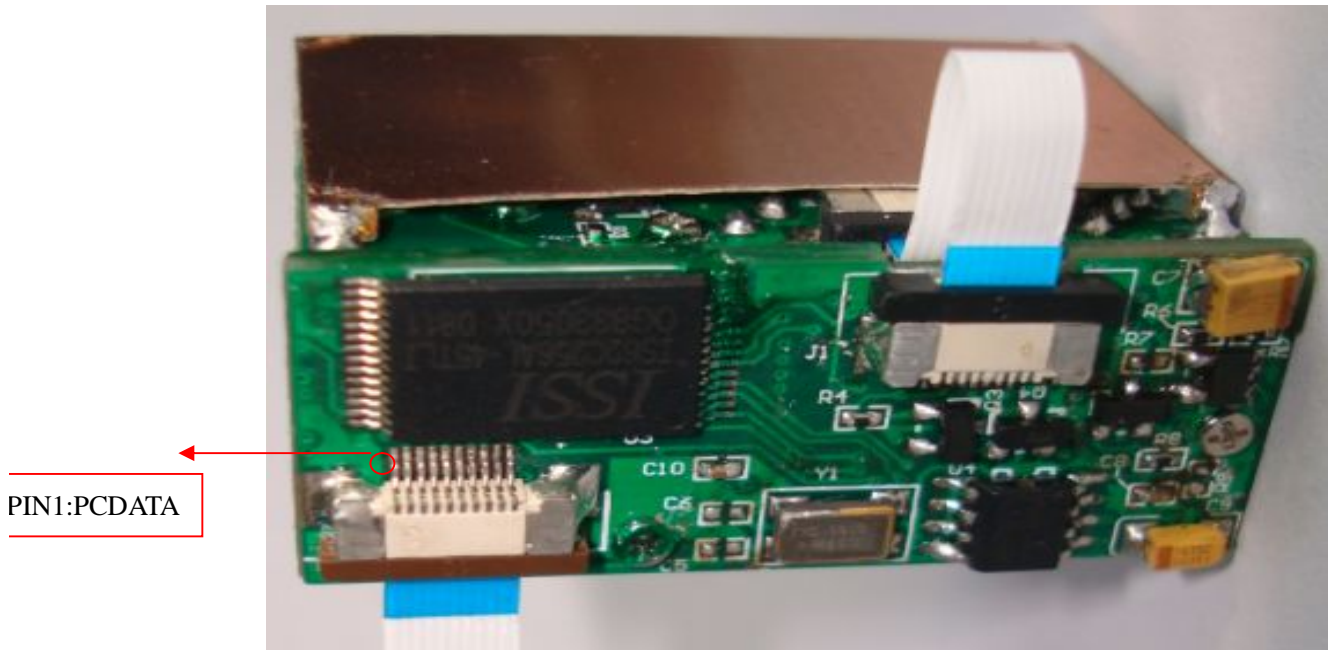


Figure (2)

Start from the left port to connect as PIN1: PCDATA, the right as PIN10: KEY
 The 10 PIN rank as table (1):

PIN1	PIN2	PIN3	PIN4	PIN5	PIN6	PIN7	PIN8	PIN9	PIN10
PCDATA	KBCLK	GND	KBDATA	PCCLK	VCC	BEEP	LED	ON/OFF	KEY

Table (1)

The description of the 10 PIN cable port :

PIN1: PCDATA KB interface (PS / 2) data signal line

PIN2: KBCLK the clock line when use KB interface with keyboard.

PIN 3: GND Ground

PIN4: it's TXD when working on serial mode, it will output data when the laser module scan the barcode(TTL, 9600, N, 8,1); it's KBDATA when working on KB mode, data line with keyboard.

PIN5: it's RXD when working on serial mode; it's PCCLK when working on KB mode, KB port (PS / 2) as clock signal line

PIN6: VCC power supply (5V or 3.3v), used for decoder board

PIN7: BEEP as the sound output feet, could connect to 9013 triode then connect to buzzer.

PIN8: LED connect to resistor can be followed by one LED.

PIN9: ON / OFF grounding work. When pull up, the module will be pushed off and the control section 6 feet will be power off.

PIN10: KEY Effective with low electrical level, connect a botton to GND. Press the button will have a laser line.

After finished above connection, power supplied, press the button, there is a laser line appeared, when scan the barcode, the pin4 will output data. User could receive this serial data by 3.3V single-clip or embedded CPU. At the

mode of 3.3V TTL-Level: **9600, N, 8, 1.**

A: Serial Mode

When use serial mode, the needed port as below:

PIN3: GND Ground

PIN4: Working on serial mode as **TXD**, output data when the module scan barcode (TTL, 9600,N,8,1)

PIN5: Working on the serial mode as **RXD**

PIN6: VCC power supply(5V or 3.3V),used for decoder board

PIN7: BEEP as sound output feet, can connect to 9013 triode then connect to buzzer

PIN8: LED connect to resistor can be followed by one LED.

PIN9: ON / OFF grounding work. When picth up, the module will be pushed off and the control section 6 feet will be power off.

PIN10: KEY effective with low electrical level, connect a botton to GND. Press the button will have a laser line.

B: Serial demo board:

Demo board presentation as figure(3) show:

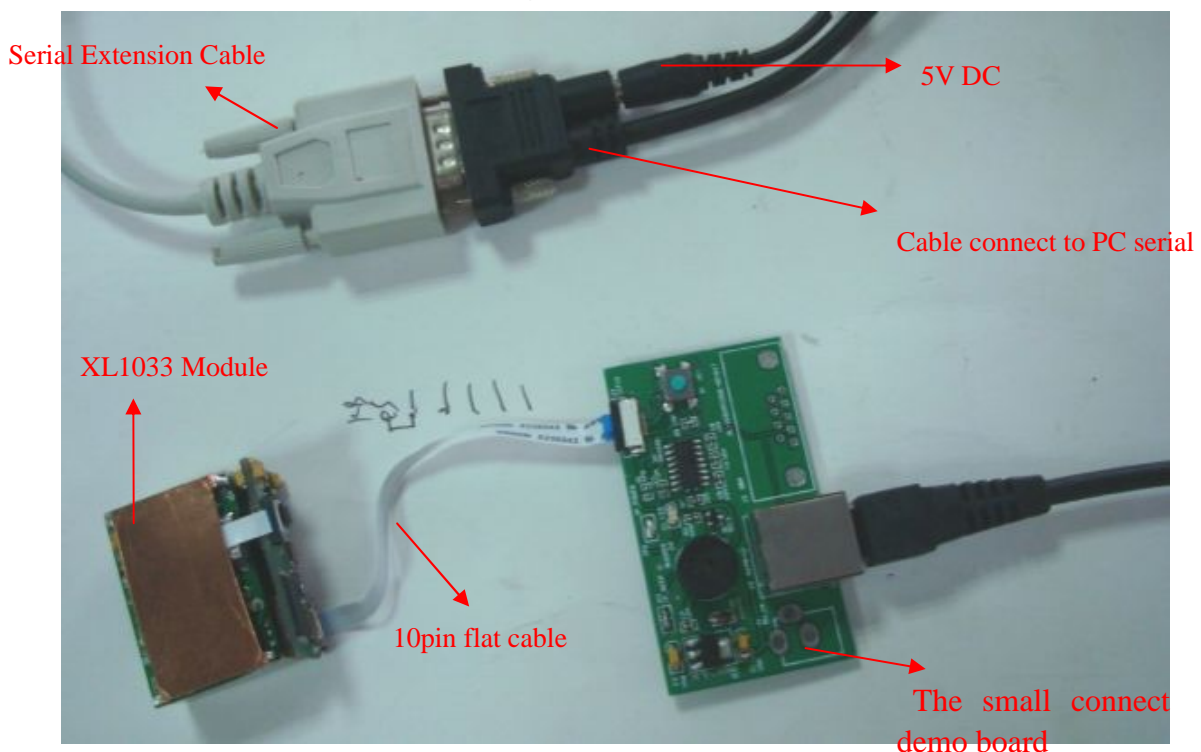


Figure (3)

Correct connect all the cables according to above figure (3), open the "serial debugging assistant V2.1.exe" on your PC. If it show as figure (4), that means the serial on your PC isn't the software default "COM1", click confirm enter figure (5), choice the serial figure (5) show. After plug in 5V power supply there will be a "beep" start-up of the buzzer on presentation board.

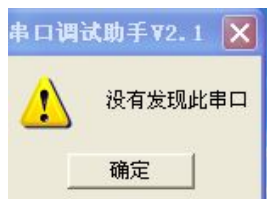


Figure (4)



Figure (5)

After LED flash and the light up, press the button, LED light out, at the same time, the module have a red laser line, let the laser line aim at the barcode, adjusting the depth of field (the distance between module and barcode), when the module read the barcode, the buzzer will ring with a “beep”. A LED flash one time, the data will be send to and show on “serial debugging assistant”.

C: PS2(KB) Mode

When use PS2 mode, the needed port as below:

PIN1: PCDATA KB interface (PS / 2) data signal line

PIN2: KBCLK the clock line when use KB interface with keyboard.(needn't to connect if not use keyboard)

PIN3: GND Ground

PIN4: working on KB mode for **KBDATA**, external keyboard data line. (Could not use if disconnect keyboard)

PIN5: it's **PCCLK** when working on KB mode, KB port (PS / 2) as clock signal line

PIN6: VCC power supply (5V or 3.3v), used for decoder board

PIN7: BEEP as the sound output feet, could connect to 9013 triode then connect to buzzer.

PIN8: LED connect to resistor can be followed by one LED.

PIN9: ON / OFF grounding work. When picth up, the module will be pushed off and the control section 6 feet will be power off.

PIN10: KEY effective with low electrical level, connect a botton to GND. Press the button will have a laser line.

D: PS2 (KB) mode presentation:

Correct connect all the cables according to PS2 mode, open a wordpad on PC.

The data will transmit and show in wordpad when you scan the barcode.
As figure (6) show:

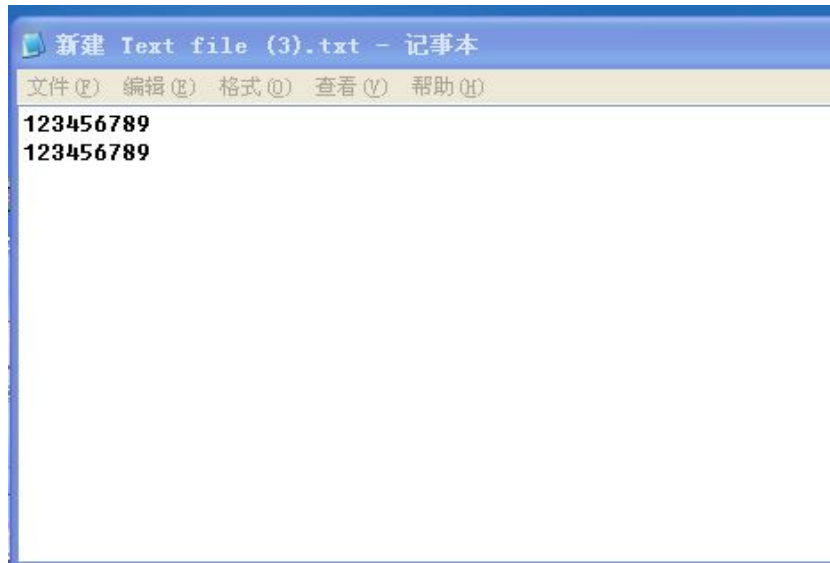
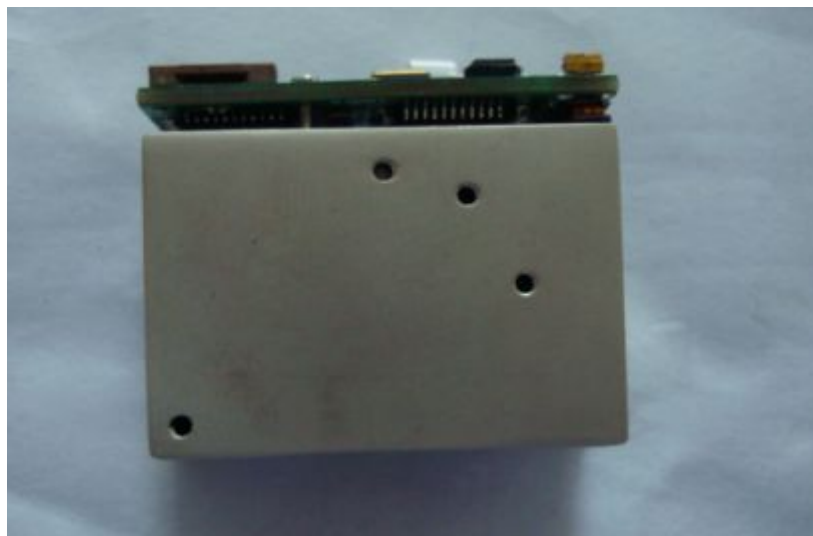


Figure (6)

Installation:

This module provide 4 holes for user's installation location, suit for the screw diameter of 2.0mm, hole depth: 3.0mm as figure (7) show:



Figure(7)

