Barcode Reader/Scanner Module-CCD Camera SKU:DFR0314

Introduction

This reader module brings the benefits of bar code scanning to a variety of OEM devices, it is light, small and low-power. Now kiosks, medical instruments, diagnostic equipment, lottery terminals, vending machines and countless other appliances can all be equipped with the leading-edge scanning technology and reliability. This scanner module is a compact long-range CCD bar code scanning module with high sensitive liner image sensor and build in Auto-sense function, which can be used in your project to decode nearly any kind of 1D(striped) barcode.

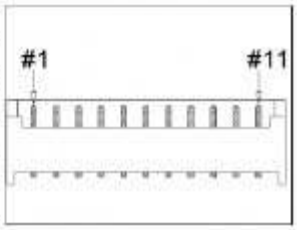
NOTE: This wiki is just a very simple guide for you to start to use it. For more info please go to Document Section to download the official documents.

Specification

- Light Source: Visible Red light 632nm LED
- Sensor: Linear CCD Sensor
- Reading Indicator: Beeper
- Output Voltage: -9V~+9V
- Stand-by Current: 50mA
- Working Current: 150mA
- Interface: RS232
- Working Frequency: 8MHz
- Working Temperature: 0 ℃ ~ 50 ℃ (32 ℉ to 122 ℉)
- Storage Temperature: -20 ℃ to 70 ℃ (-4 ℉ to 158 ℉)
- Detecting Angle(Test Conditions : Code 39, 10mil/0.25mm,PCS90%): Pitch Angle 5°~60° (±5°)
- Reading Distance: 500mm@20mil/0.5mm, PCS90%
- Scan Rate: 100 scans/sec ±10%
- Size: 46mm*32.5mm*11.5mm
- Weight: 80g

Pinout

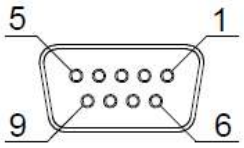
Type	MOLEX (or Compatible) 11P Pitch 1.25
Pin No.	Function
1	GND
2	Vcc (+5V)
3	TXD
4	RXD
5	HOST DATA
6	HOST CLK
7	KB DATA
8	KB CLK
9	RTS
10	CTS
11	SHIELD



Decoder Data Output

DB 9 Female

Pin No.	Function
2	TXD
3	RXD
5	GND
7	CTS
8	RTS
9	Vcc/+5V
Power Lead	Vcc/+5V



Trigger Button

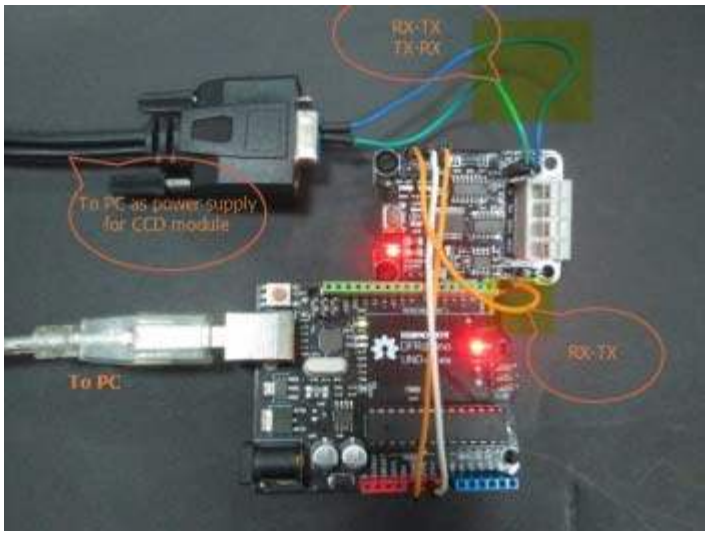
When you press the Switch over 10us, it will read two-dimension code, until it reads success or you release the button.

Sample Code

```
/*
  description:
  The sample code is used to read the barcode value using RS232-TTL Con
verter
  This Module will transmit the barcode value in ASCⅡ and end up with
0D
  VCC -- VCC
  GND -- GND

*/
String code = "";            //initialize the output string
boolean endbit = 0;             //a flag to mark 0D received
char temp;

void setup() {
  Serial.begin(9600);        //initialize the Serial port
}

void loop() {
  if (Serial.available() > 0)      {
    temp = char( Serial.read());    //read the input data
    code += temp;
  }
  if (temp == 0x0D){            // Or temp == '\r'
    Serial.println(code);
    code = "";
    endbit = 0;
```

```
      temp = 0;
    }


}
```

Example



Connection

Scan a barcode

By using a RS232-TTL converter with the module and Arduino, and please upload the sketch above to Arduino card. Then you can open your serial monitor, choosing 9600bps, and then scan a barcode, you will see the barcode info in the serial monitor.