

# Barcode Reader/Scanner Module-CCD Camera SKU:DFR0314

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## Introduction

This 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 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.

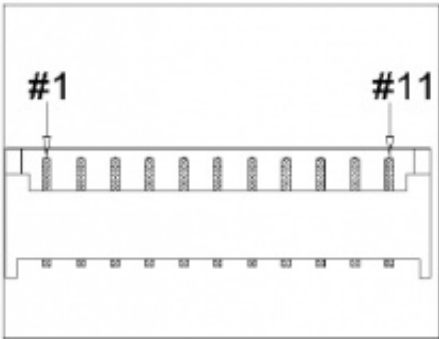
## Specification

- 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

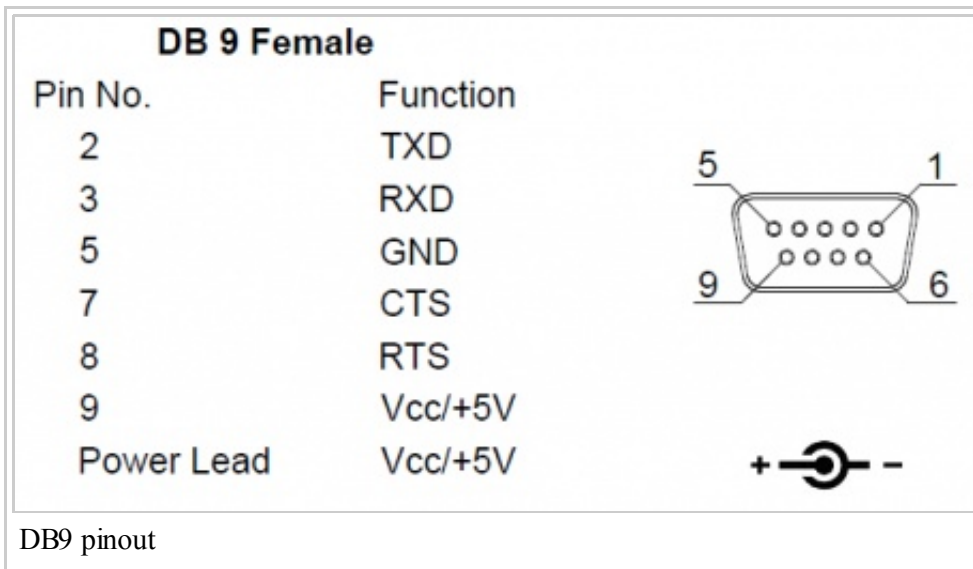
- Working Frequency: 8MHz
- Working Temperature: 0 °C ~ 50 °C (32 °F to 122 °F)
- Storage Temperature: -20 °C to 70 °C (-4 °F to 158 °F)
- Detecting Angle(Test Conditions : Code 39, 10mil/0.25mm,PCS90%): Pitch Angle 5°~60° (±5°)
- Reading Distance: 500mm@20mil/0.5mm, PCS90%
- Scan Rate: 100 scans/sec ±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



## 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

```

?
1  /*
2   description:
3   The sample code is used to read the barcode value using RS232-TTL Converter
4   This Module will transmit the barcode value in ASCII and end up with 0D+0A
5   VCC -- VCC
6   GND -- GND
7
8  */
9  String code = "";           //initialize the output string
10 char endbit=0;             //a flag to mark 0D received
11 void setup()
12 {
13   Serial.begin(9600);       //initialize the Serial port
14 }
15 void loop()
16 {
17   int temp;                 //temporary storage of data received
18   if(Serial.available()>0)
19   {

```

```
19  temp=(Serial.read());    //read the input data
20  if(temp==0x0D)
21  {
22      endbit=1;
23  }
24  else if((temp==0x0A)&&(endbit=1)&&(code.length()>0))    //0D+0A received in
25  order, so it comes to the end of string
26  {
27      Serial.println(code);
28      code="";
29      endbit=0;
30  }
31  else
32  {
33      code +=char(temp);
34  }
35  }
36}
```

## Documents

Quick Guide (<http://dfrobot.com.cn/images/upload/File/DFR0314/2014071415461749ye5a.pdf>)

Barcode Reader/Scanner Module-CCD Camera Setting manual

(<http://dfrobot.com.cn/images/upload/File/DFR0314/201407141547186a4w80.pdf>)

Barcode Reader/Scanner Module-CCD Camera Specifications

(<http://dfrobot.com.cn/images/upload/File/DFR0314/20140714154747jfgfn.pdf>)

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