



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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DFROBOT
DRIVE THE FUTURE



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.

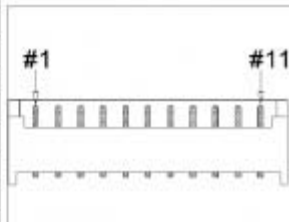
NOTE: This wiki is just a very simple guide for you to start to use it. For more info please go to [Document](#) Section to download the official documents.

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 °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

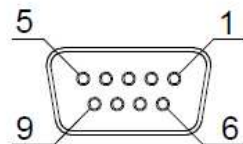
| Type | MOLEX (or Compatible) 11P Pitch 1.25 |
|---------|---|
| Pin No. | Function |
| 1 | GND |
| 2 | Vcc (+5V) |
| 3 | TXD |
| 4 | RXD |
| 5 | HOST DATA |
| 6 | HOST CLK |
| 7 | KB DATA |
| 8 | KB CLK |
| 9 | RTS |
| 10 | CTS |
| 11 | SHIELD |



Decoder Data Output

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 Converter
  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;

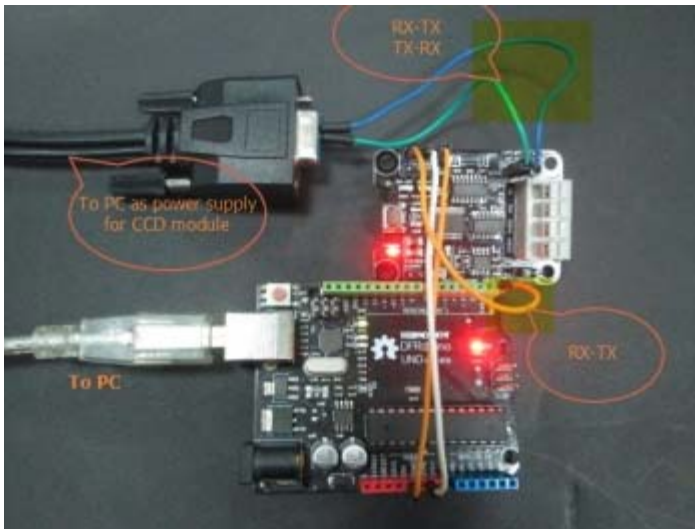
void setup() {
  Serial.begin(9600);      //initialize the Serial port
}

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.

