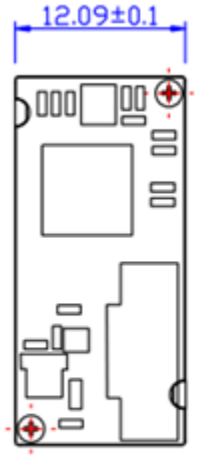
2D Embedded barcode scanner module

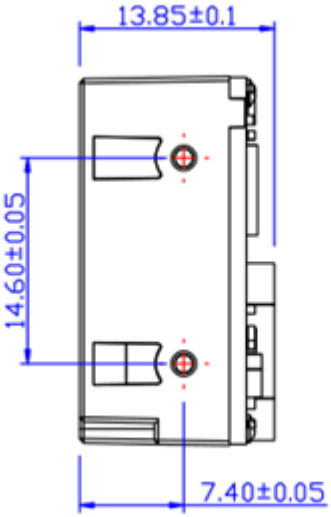
HW-1268

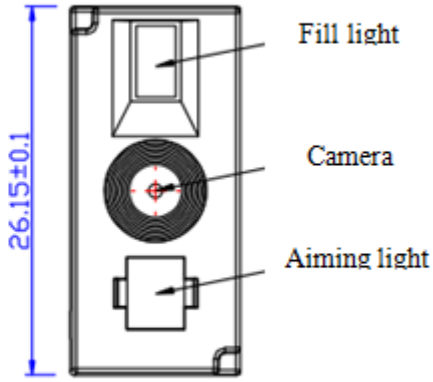
FEATURES & BENEFITS

- 300,000 pixels resolution
- Decoding min barcode density:5mil
- Support 1D/2D barcode on paper and screen
- Interface TTL232 and USB by 12pin FFC
- Small size, fast and convenient installation

Installation Dimensions and Interface definition



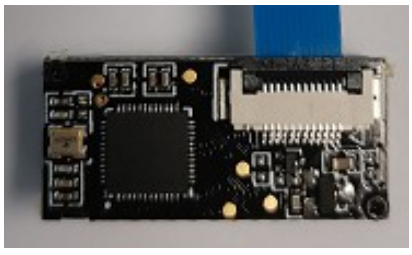




Interface definition

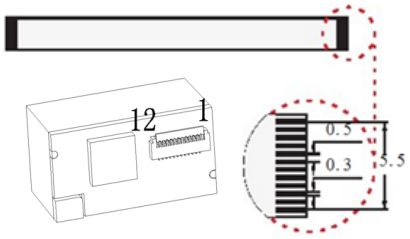
PIN	I/O	Definition	Description
1	-	NC	floating
2	-	VCC	3.3VDC power
3	-	GND	ground
4	Input	RX	TTL serial port reception
5	Output	TX	TTL serial port transmission
6	I/O	D-	USB D-
7	I/O	D+	USB D+
8	-	GND	ground
9	Output	BEEPER	Control external buzzer Output high level pulse 60ms
10	Output	DLED	Control external Indicator LED Output high level pulse 100ms
11	-	NC	floating
12	Input	TRIG	Trigger signal, low level available

PIN 12 PIN 1



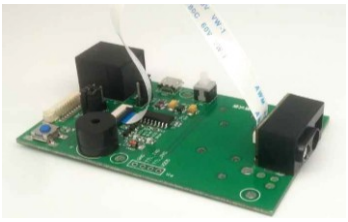
Connection

1. Directly connect to MCU board by 12 pin FFC(Actual usage)



12pin FFC flat cable
0.5pitch
Co-directional transmission

2. Connect with test board

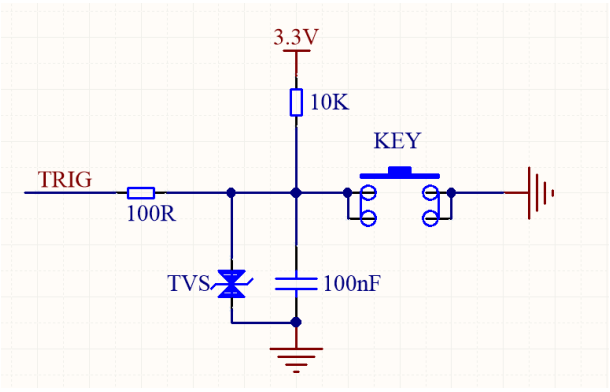


Test board has multiple output interface,5VDC/3.3VDC power USB/RS232(RJ45),TTL(ribbon, UART)

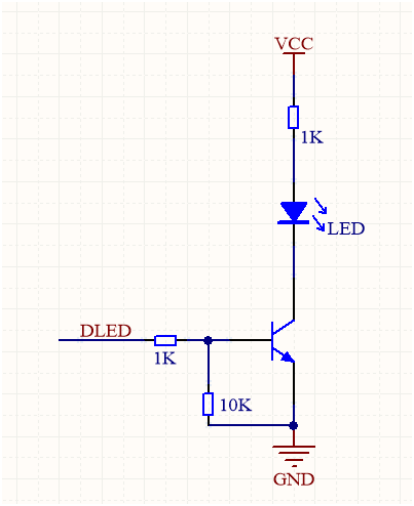
3. Connect to GPIO of RPI

Can connect by ribbon connector
Also need use test board

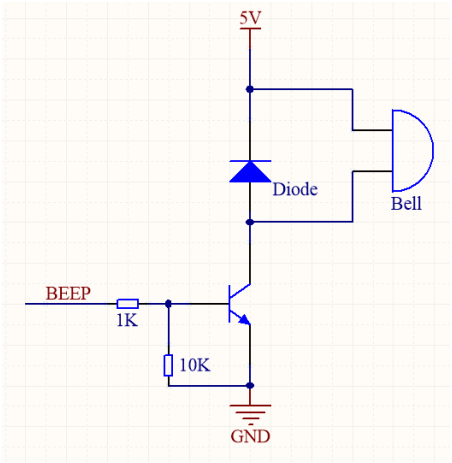
It is for pin9(buzzer control),pin10(LED indicator control),Pin12(trigger pin)



(1)Pin12 trigger pin



(2)Pin10 LED indicator



(3)Pin9 Passive buzzer

Note:

If the module is installed in the window

1. If the module is installed in the window, the window needs to use glass, you can use the anti-reflection layer, the red light transmission rate is not less than 90%, and the blur degree is less than 1%.
2. The window material should be anti-scratch and anti-fouling, choose high wear-resistant materials or add wear-resistant coatings.
3. Check the window surface to make sure it is not scratched, pitted or dirty.
4. The window should be on the inside of the device's housing
5. The window should be parallel to the scanner.

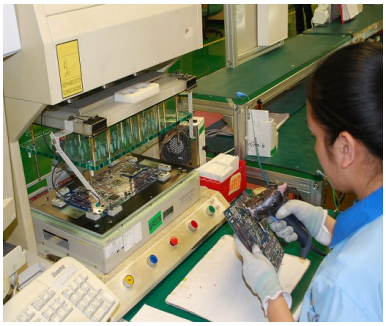
Application Scenario

HHT,POS,PDA etc.

Cabinet for logistic

self-order machine

Self-service machine



Factory traceability

Vending machine

Technical Specification

HW-1268 Parameters

Reading performance	Image Sensor	CMOS
	Resolution	300,000 pixels,640*480pixels,30fps
	Decoding capacity	Support paper and screen barcodes
		2D: QR Code、PDF417、DataMatrix（ECC200）、Micro QR Micro PDF417,,Code 16K,,Maxi Code, Aztec, Hanxin;
		1D: EAN13、EAN8、UPC-A、UPC-E0、UPC-E1、Code128、Code39、Code93、CodaBar 、Interleaved 2 of 5、Industrial 25、Matrix 2 of 5、Code11、 MSI Plessey 、RSS-14、limited RSS、Expanded RSS、Standard 2 of 5、Plessey、ChinaPost 25 etc. all normal 1D
	Precision	1D ≥5mil; 2D ≥8mil
	Light Source	Visible Red Diode, White LED for illumination
	View Angle	37°(H) x28°(V)
	Scan Angle	Rotation360°,tilt±45°,skew±45°
	Min Contrast	25%
	Trigger Mode	Manual, Continuous, Auto sensing, Host etc.
	Typical DOF	EAN13 (13mil) 40-200mm Code 128(15mil)45-250mm QR code(15mil)40-200mm PDF417(6.67mil)30-130mm Performance may be impacted by bar code quality and environmental conditions
Mechanical and electrical	Interface	TTL232,USB(HID-KBW,virtual serial port)by 12pin FFC flat cable
	Working Voltage	DC 3.3V
	Current	120mA(working) 5mA(standby)
	Dimensions	26.15(W)×12.1(D)×13.85(H)mm
	Weight	5g
	Indication	LED(fill light),can trigger external buzzer and LED indicator
Environment Request	Working Tem	-20~60℃
	Storage Tem	-40~70℃
	Humidity	5%-95%(Non-condensing)