

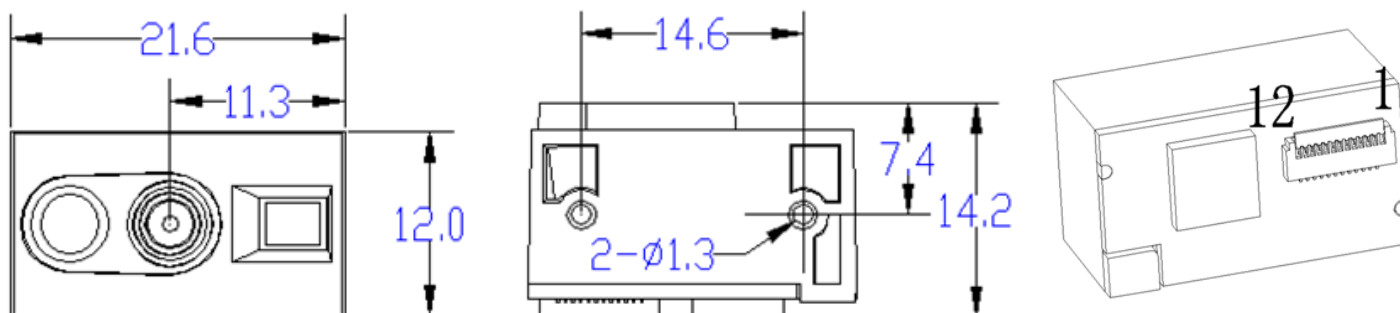
HW-1260

FEATURES & BENEFITS

- 300,000 pixels resolution
- Decoding min barcode density:5mil
- Motion tolerance 10-13cm/s
- Support 1D/2D barcode on paper and screen
- Decode long PDF 417(750bytes),large QR(2000bytes)
- Interface TTL232 and USB by 12pin FFC
- Small size, fast and convenient installation



Installation Dimensions and Interface definition



Interface definition

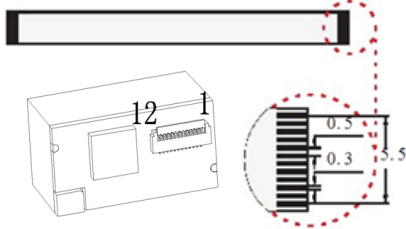
PIN	I/O	Definition	Description
1	-	NC	floating
2	-	VCC	3.3VDC power
3	-	GND	ground
4	Input	RX	TTL serial port reception
5	Output	TX	TTL serial port transmission
6	I/O	D-	USB D-
7	I/O	D+	USB D+
8	-	NC	floating
9	Output	BEEPER	Control external buzzer High level valid, low level free
10	Output	DLED	Control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

Description of electrical characteristics

1. Power voltage:3.3VDC $\pm$ 5% Supply ripple need less than 100mV
2. Serial port TTL level:3.3VDC $\pm$ 5% ripple need less than 100mV
3. Control pins: 3.3VDC $\pm$ 5% ripple need less than 100mV
4. Pin9 is a output pin, that is used for controlling the buzzer in external circuit(if client need), when there are operations for reader ,pin9 will send out a **high level**(PWM signal, set frequency by scanning setting code, The premise :enable buzzer
5. Pin10 is a output pin, that is used for controlling the indicator LED in external circuit(if client need), when there are operations for reader, pin10 will send out a **high level**, The premise :enable LED indicator.
6. Pin 12—trigger signal, keep low level for more than 10ms,scanner will start to scan, used for controlling the scanner to work according to the software setting of client.

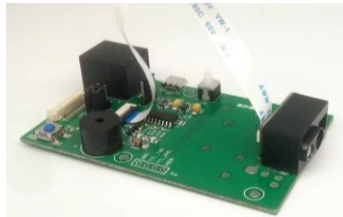
Connection

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



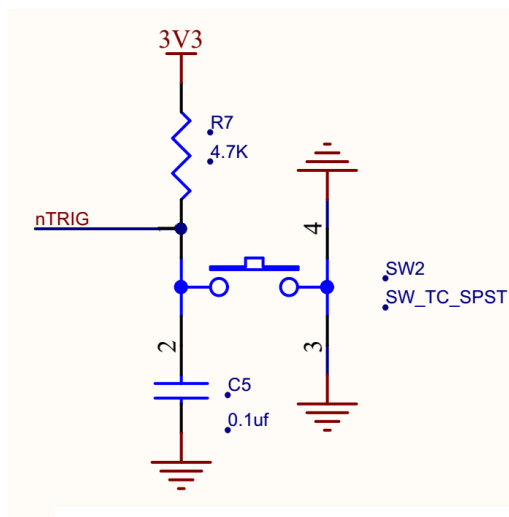
Test board has multiple output interface, 5VDC/3.3VDC power
USB/RS232(RJ45), TTL(ribbon, UART)

3. Connect to GPIO of RPI

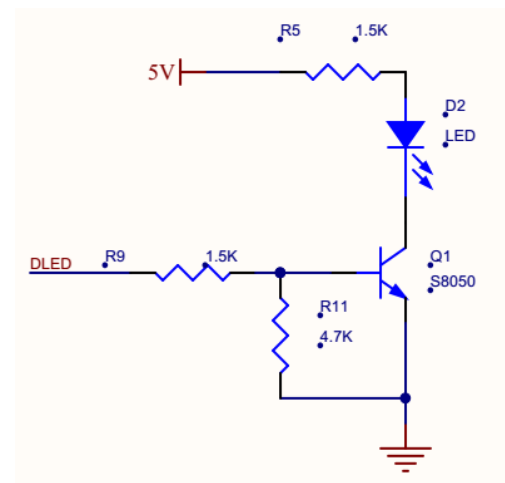


Can connect by ribbon connector
Also need use test board

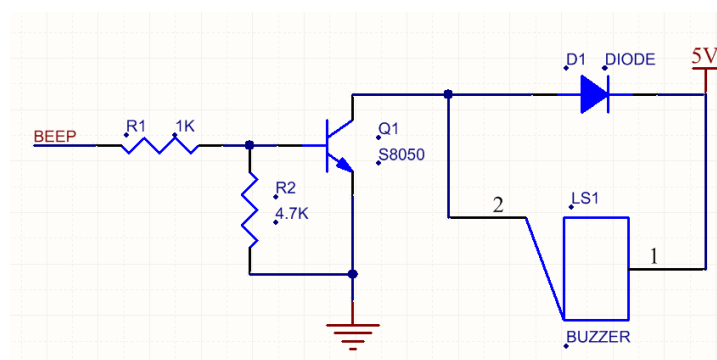
It is for pin9(buzzer control), pin10(LED indicator control), Pin12(trigger pin)



(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-1260 Parameters

Reading performance	Image Sensor	CMOS
	Resolution	300,000 pixels,640*480pixels,30fps
	Decoding capacity	Support paper and screen barcodes
		2D: QR, Micro QR,PDF417, Micro PDF417, Data Matrix, Aztec
		1D: EAN,UPC,Code 39,Code 93,Code 128,UCC/EAN 128, Codabar Interleaved 2 of 5, ITF-6,ITF-14,ISBN,ISSN, MSI-Plessey GS1 Databar,Code 11,Industrial 25, Standard 25, Plessey Matrix 2 of 5 etc. all normal 1D
	Precision	5mil
	Light Source	Visible Green Diode, White LED for illumination
	View Angle	34° (H) x28° (V)
	Scan Angle	Rotation360° ,tilt±55° ,skew±55°
	Min Contrast	25%
Mechanical and electrical	Trigger Mode	Manual, Continuous, Auto sensing, Host etc.
	Typical DOF	EAN13 (13mil) 50-200mm Code 39(5mil)40-90mm
		QR code(20mil)25-240mm PDF417(6.67mil)30-130mm
		Performance may be impacted by bar code quality and environmental conditions
	Interface	TTL232,USB(HID-KBW,virtual serial port)by 12pin FFC flat cable
	Working Voltage	DC 3.3V
Environment Request	Current	160mA(working) 25mA(USB standby) 2mA(TTL standby)
	Dimensions	21.6(W)×14.2(D)×12(H)mm
	Weight	5g
	Indication	LED(fill light),can trigger external buzzer and LED indicator
	Working Tem	-20~50℃
Environment Request	Storage Tem	-40~70℃
	Humidity	5%-95%(Non-condensing)
	Light brightness	0-100000LUX