

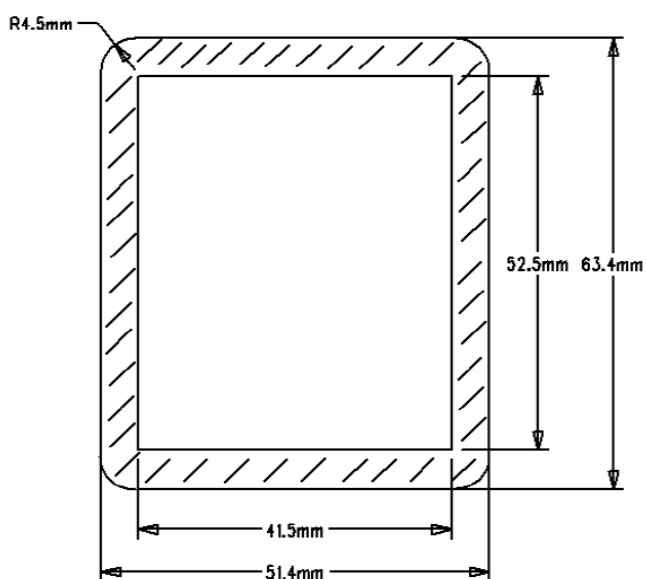
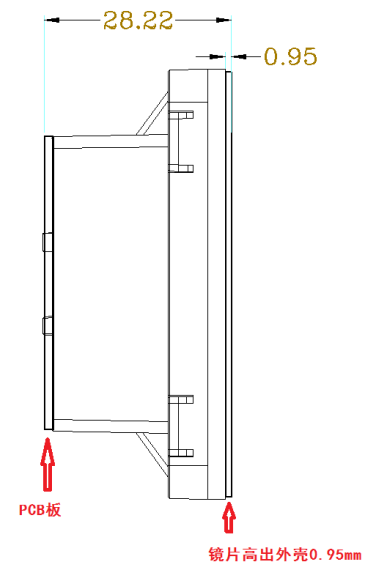
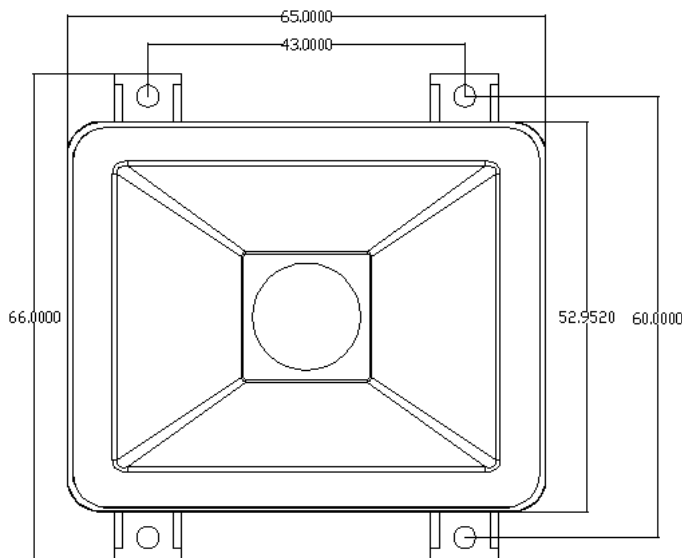
HW-1521

FEATURES & BENEFITS

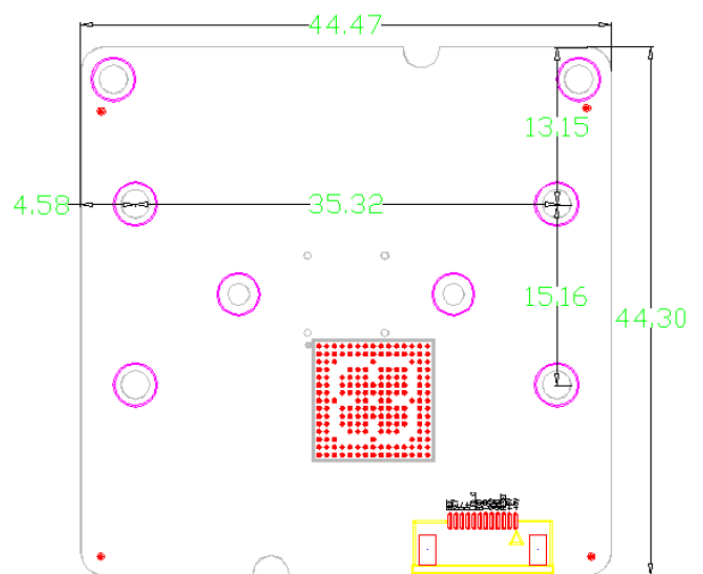
- 32-bit high performance CPU, 1GHz frequency
- Decoding min barcode density: 5mil
- Support 1D/2D barcode on paper and screen
- Interface TTL232, RS232 and USB(HID, COM)
- Decoding at low and high brightness environment
- Auto-sensing, Continuous, Host Mode
- Large window, small size, fast convenient installation



Installation Dimensions



Front cover dimensions



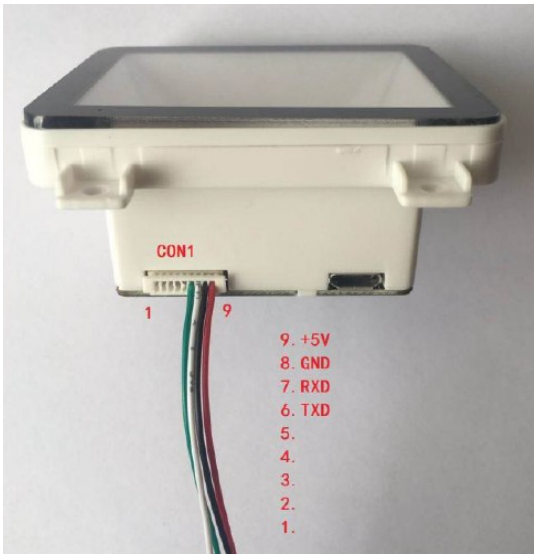
Dimensions of PCB on the back

Interface definitions

Connector 1: 1.0mm pitch 9pin male connector

PIN	I/O	Definition	Description
PIN 1	Input	KEY	Signal trigger, Low level valid
PIN 2	Output	LED-C	Control Indicator LED, low level valid
PIN 3	Output	BEE	Control buzzer, high level valid
PIN 4	-	USB D+	USB HID or USB COM
PIN 5	-	USB D-	USB HID or USB COM
PIN 6	Output	TXD	TTL RX 3.3VDC or RS232 5VDC
PIN 7	Input	RXD	TTL TX 3.3VDC or RS232 5VDC
PIN 8	-	GND	Ground
PIN 9	-	+5V	5VDC Power

Connector2: Micro USB



Serial port cable

TTL OR RS232 signal port

Client End is wire

USB port cable

USB/USB COM signal port

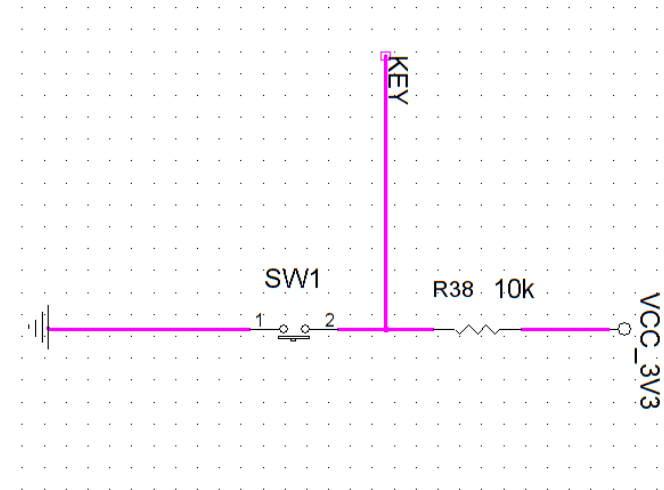
Client End is USB type A

Serial port cable

RS232 signal port

Client End is DB9 CON for data ;
USB type A for power

Pin 1 is a trigger pin, low level is valid, Peripheral circuit design reference



Technical Specification

HW-1521 Parameters

Reading performance	Image Sensor	CMOS	
	Resolution	300 thousand 640*480pixels	
	Decoding capacity	Support paper and screen barcodes	
		2D: QR, MICROQR, PDF417, MICROPDF417, DATAMATRIX, MAXICODE, AZTEC, HANXIN etc.	
		1D: UPC-A, UPC-E, EAN-13, ISBN10, ISBN13, EAN-8, CODE39, CODE 11, CODE 93, CODE128, INTERLEAVED25, INDUSTRIAL25, MATRIX25, S25, CODE 32, TRIOPTIC39, GS1_128, CODABAR, MSI, CHINA POST, TELEPEN, RSS, GS1_DATABAR, GS1_DATABAR_LIM, GS1_DATABAR_EXP etc. all normal 1D	
	Precision	5mil	
	Light Source	LED(630nm $\pm$ 10nm)	
	View Angle	66° (H) x60° (V)	
	Scan Angle	Rotation360° ,tilt $\pm$ 60° ,skew $\pm$ 60°	
Mechanical and electrical	Min Contrast	25%	
	Trigger Mode	Auto-sensing, Continuous, Host(programmable) Mode	
	Typical DOF	Code 128(6mil) 10-100mm	Code 128(20mil)50-260mm
		QR code(5mil)6-60mm	QR code(20mil)40-220mm
	Performance may be impacted by bar code quality and environmental conditions		
	Interface	TTL232 ,USB(HID, COM),RS485(optional), RS232(optional)	
	Input Voltage	DC 5V $\pm$ 10%	
Environment Request	Working Current	90-100mA (working) 1.5mA(TTL standby) 45mA(USB standby)	
	Dimensions	65*60*28mm	
	Weight	35g(without cable)	
	Indication	Buzzer & LED	
	Working Tem	-30~65℃	
	Storage Tem	-40~70℃	
	Humidity	5%-95%(Non-condensing)	

Application Scenario



Ticket, Turnstile machine



Self-service machine



Cabinet for Logistic