RHINOMobility

2D SCAN ENGINE MODULE

RM4410

Good products make you more productive

As barcodes become more complicated - smaller and denser – light manufacturers need a scanner they can rely on to provide fast and accurate barcode scanning on even the toughest codes.

FEATURES AND BENEFITS

Core Technology
Adopt international advanced intelligent image recognition technology. More thinner and more lighter.

Energy efficient
Adopt independent core technology, extend equipment life and lower.

Excellent Reading Characteristic
Upgrade the algorithm of decoding, friendly to low light screen-code and paper-code.

Multiple Interfaces
Supports USB(HID,CDC),TTL232 or RS232 interfaces to meet more interface requirements.

APPLICATION

RM4410 is an embedded code scanning and card swiping device, which applies the international advanced chip intelligent.

identification technology. It can read all kinds of mainstream one-dimensional barcodes and standard two-dimensional barcodes.

At the same time, it integrates NFC reading and writing function, which can easily read and write all kinds of high-frequency card.

information. It is very suitable for embedded products in various industries such as queuing equipment, logistics express.

cabinet, e-commerce self-service cabinet, ATM self-service machine, self-servicequery terminal, intelligent dustbin, access control, etc.

FEATURES AND BENEFITS

In addition to a Red triangle cursor aimer to visibly enhance targeting and improve scan accuracy, the newly engineered and innovative scan platform empowers snappy scanning operations.

The scanner cradle integrates one-click pairing and upload function buttons to improve efficiency by simplifying operation, while the scanner body also integrates up and down buttons to achieve functional Settings

Apply various means of transportation, such as: buses, subway gates, and plane boarding gate.

Made of sturdy ABS material, it ensures the strength of the main structure and has passed the 2.0-meter drop test with an IP42 rating.

It is applied to large and medium-sized supermarkets, small convenience stores, clothing chain stores, hotels, the catering industry, etc.

When the scanner scans the setting code of automatic induction, it can sense the items that have passed the scanning window, and realize the automatic scanning of the bar code on the items.

RM4410 TECHNICAL SPECIFICATIONS

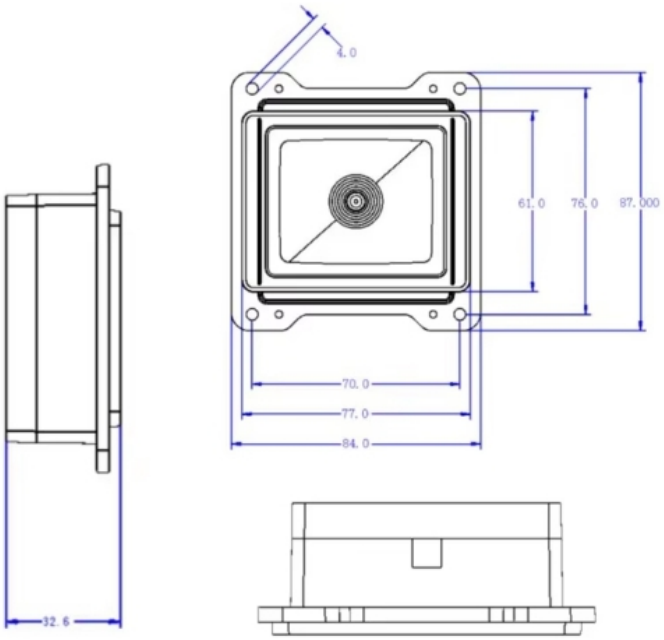
Performance Characteristics	
CPU	32 bits ARM
Operating System	Windows / iOS / Android
Light Source	White LED
Scan Mode	Handhand (Manual) / Handfree (Automatic)
Image Sensor	CMOS
Resolution	1280 (H)*800 (v)pixels
Scan frame rate	60fps/s
Scan Precision	≥ 4mil@ Code39
Print Contrast	≥ 30%
Interface	USB(HID、CDC) (TTL232、RS232 option)
Scan Angle	Pitch：± 55 ° Skew：± 50 ° Rotate：360 °
Field of view	Horizontal 52° Vertical 39°
Scan code prompter	Buzzer and motor vibration
Motion tolerance	2.0m/s
Decoding Capability	
1D	Code 128, EAN-13, EAN-8, Code 39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ITF-6, ITF-14, ISBN, Code 93, UCC/EAN-128, Gs1 Databar, Matrix 2 of 5, Code 11, Industrial 2 of 5, Standard 2 of 5, Plessey, MSI-Plessey, etc
2D	QR, Micro QR, PDF417, MicroPDF, DataMatrix, Aztex, Maxicode, hanxin, etc
OCR	ID card, passport

Performance Parameter	
Dimension	1.28 in. H x 3.31 in. W x 3.43 in. L 32.6 mm H x 84 mm W x 87 mm L
Weight	80g (without cable)
Case Material	ABS
Typical Power Consumption	1.9 W

Power parameter	
Input Voltage	DC 5V to 24 V
Working current	Max Current 640mA @5V/Typical Current 380mA @5V

NFC card	
Reading distance	0mm-60mm
Reading frequency	13.56MHz
Support types	S50, S70, NTAG 213, NTAG 215, Mifare-UltraLight, FuDan M1, Mifare Desfire EV1, Mifare Desfire EV2, Mifare Desfire EV3, Mifare plus 2K, Mifare plus 4K, Sr176

Enviromental parameter	
Operating Temperature	-20℃~+ 50℃
Working Humidity	5% to 95% relative humidity, non-condensing
Storage Temperature	-40℃ ~+70℃
Ambient brightness	0 to 100,000 Lux (Daylight)
Drop Resistance	Designed to withstand 2 Meters drop
IP GRADE	IP42
Accessories	USB Cable, TTL232 Cable, RS232 Cable option

DECODE RANGES (DoF)

TYPICAL PERFORMANCE*	
NARROW WIDTH	
13 mil EAN 13	30 mm – 390 mm (1.18 in – 15.35 in)
5 mil Code39(10 bytes)	40 mm – 180 mm (1.57 in – 7.09 in)
15 mil QR	20 mm – 280mm (0.787 in – 11.02 in)
6.67 mil PDF 417	40 mm – 190 mm (1.57 in – 7.48 in)
20 mil Data Marix	40 mm – 130 mm (1.57 in – 5.12 in)
32 mil QR （Wechat	40 mm – 1000mm (1.57 in – 39.37 in)