RT830i-B

EMBEDDED NEAR FIELD READING BARCODE SCANNER MODULE

RT830i-B is designed for near-distance barcode reading. If you look for a near-field scan module for embedding use, then you can choose this RT830i-B. It is a fixed-mount module for embedded use. With a thin design, it can be embedded in ATMs, POS terminals, turnstiles, lockers, laptops, self-service terminals, notebooks, and also medical devices/ instruments, etc.

It supports sense mode which detects and reads barcodes automatically, builds in USB and TTL-232 interfaces, and the RS232 interface is optional. So you can connect it with your terminals via USB directly (no need for any other kit board) or 12pins TTL interface.

▸ **Support most 1D&2D barcodes**

It supports reading most types of common 1d&2d bar codes, whatever read from paper or from a phone screen, including QR code, Data Matrix, PDF417, EAN code, etc.

▸ **Large field of view, suitable for near-distance barcodes reading**

This module has a large field of view, which is outstanding at near reading on-screen or paper bar codes *even when the screen is lower brightness or poor quality printed.* For example, the Min. readable distance is 1.5cm for the 5mm DM code.
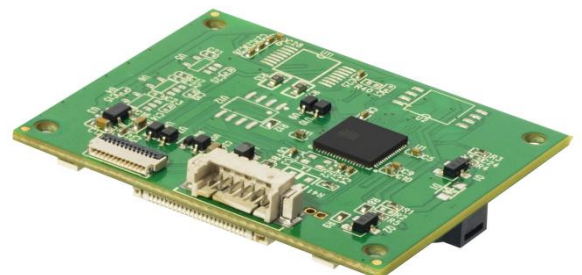
▸ **Super thin design**

The ultra-thin appearance and seamless integration of the imager and decoder board facilitate the integration of the barcode scan engine RT830i-B into a wide variety of thin-and-light devices, such as POS terminals, and laptops, ultra-thin advertising terminals, medical devices, etc.

Performance	Image Sensor	640 pixels (H)x 480 pixels (V)	
	Illumination Aiming	Illumination: 5000K LED	
	Symbologies	2D	PDF417, Data Matrix, QR Code, etc.
		1D	UPC-A,UPC-C, EAN-8,EAN-13, Code 128, Code 39, Code 93, Codabar, Interleaved 2 of 5, etc.
	Resolution	≥7mil	
	Typical Depth of Field	Code39	60-160mm (2*4cm)
		Code128	50-160mm(2*4cm)
		QR code	30-70mm (5mm)
		PDF417	40-190mm (3*5cm)
		PDF417	30-170mm(2*4cm)
		Data Matrix	15-90mm (5mm)
	Scan Mode	Sense mode, continuous mode, command mode	
	Scan Angle	Roll: 360°, Pitch: ±60°, Skew:±40°	
	Field of View	Horizontal 88°, Vertical 57°	
	Motion Tolerances	>0.3m/s	
	Print Contrast	30% minimum reflective difference	
	FPS	30FPS	
Mechanical/ Electric	Interface	TTL-232, USB-HID, USB-VCOM, RS232 (optional)	
	Dimensions	45mm x 36mm x 12mm	
	Weight	13g	
	Notification	Beep	
	Operating Voltage	FPC PORT 3.3V DC MX1.25 PORT 5.0V DC	
	Current	Operating: 140mA. Standby: 40mA. Peak: 240mA.	
Environmental	Operating Temperature	-20°C to 60°C	
	Storage Temperature	-40°C to 80°C	
	Humidity	5% to 95% (non-condensing)	
	Drop/Shock	Withstands 10Gs 0.06"double amp	
	Ambient Light Immunity	0-100,000 Lux.	