



# RT103

OEM Barcode Scan Module

The OEM barcode scan module RT103 is a perfect choice for your OEM design 1D barcode scanning application. It is a compact long range CCD barcode scanning engine with high sensitive linear image sensor, 10,000 LUX ambient light resistance, 500 scan-rate per second and readable various major 1d bar codes, this is your desirable choice of 1d linear CCD type bar code scanning module.

The RT103 brings the benefits of barcode scanning to all types of OEM devices: kiosks, medical instruments, diagnostic equipment, lottery terminals, vending machines and countless other devices can all be equipped with this leading-edge bar code scanning device.

It is designed with compact size, mounting option and USB or RS232 output directly to facilitate integration with your system.



▶ OEM barcode scan module: RT103

The RT103 is a OEM barcode scan module for 1d bar codes, 500 scan-rate per second high decode performance, and designed with compact size, mounting option and USB or RS232 output directly which can greatly facilitate integration with your system.



## Features:

- Compact, easy to be embedded
- USB or RS232 interface directly, no need to pay much time on system integration program
- Support most of 1D bar code decoding
- With high performance processing chip inside, and advanced imaging& lighting technology, it is outstanding in high speed decode all kinds of barcode, ever readable the laser printed code from stainless surface

## Specification:

Mechanical	
Dimensions (LxWxH)	55mm x 45mm x 24mm
Weight	80 g
Electrical	
Input Voltage	+5V±5% VDC
Operating Power	0.75 W
Standby Power	0.25 W
Light source	Visible red light 632nm LED
Sensor	Linear CCD Sensor
Processor Type	ARM Cortex™-M3,32-bit
Operating Freq.	8MHz(Internal)
Interfaces	RS232(with DC adapter), USB
LED class	IEC/EN60852-1:2001, IEC/EN62471:2006
Electromagnetic compatibility	CE Class1: EN60825-1
Environmental	
Operating Temperature	-20°C to 60°C
Storage Temperature	-30°C to 70°C
Humidity	5% to 95% relative humidity, non-condensing
Drop	withstand 1.0 m drops to concrete on each of the faces
Illumination Levels	0 to 100,000 lux
Scan Performance	
Scan Pattern	Laser Linear
Scan Angle	Pitch Angle: 5 ~60 (±5 ),Skew Tolerance: 5 ~60 (±5 )
Symbol Contrast	45% minimum reflectance difference
Scan Rate	Smart detect up to 500 scans/second
Reading Distance	500mm@20mil/0.5mm, PCS90%
Decode Capability	1D: All UPC/EAN/JAN, EAN128 Code, Code 39, Code 39 Full ASCII, Code32 / Italian Pharmacy, Code 128, CODABAR/NW7, Interleave 25, Industrial 25, Matrix 25, MSI/PLESSEY, Telepen, Code 93, Code 11, China Postage, Code 26, LCD25, GS1 DataBar, GS1 DataBar Stacked 2D: Not support
Warranty	
	1 year factory warranty

Scan Map:

