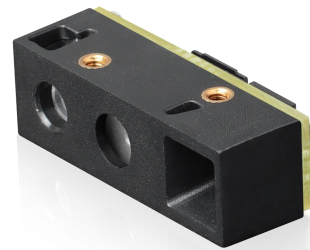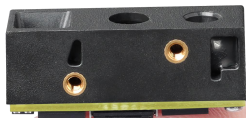# RT214D

Super-small & Economical Barcode Scan Engine

1D 2D TTL232 CMOS

RT214D scanner engine is designed to be small, cost-effective, and energy-efficient, making it an ideal choice for most kinds of embedded use for common 1D/2D barcode reading.
Its lower power consumption enables it to be operated for longer periods of time in stand-alone devices.
Its small size makes it easy to be embedded in whatever big-size machine or small handheld devices, such as Medical equipment, Self-service devices, PDA, Tablet, Notebook, Bluetooth ring scanner, Bluetooth pocket scanner, etc.
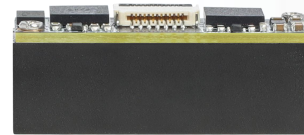
¦ Super small and compact design

The super small size, lightweight, and seamless integration of the imager and decoder board facilitate the integration of the barcode scan engine RT214D into a wide variety of equipment.

¦ Lower power consumption

Using advanced technology so the RT214D barcode scan engine is quite low power consumption and has outstanding power efficiency. This also contributes to extending its service life.
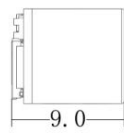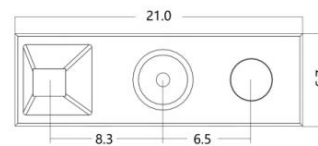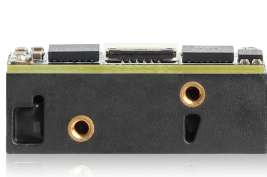

¦ Cost-effective

RT214D is a highly cost-effective scan engine. if you need a scan engine for general bar code reading, RT214D will be the great economical solution, which allows you to save costs.

Performance	Image Sensor	640 * 480 CMOS	
	Illumination Aiming	White LED Red LED 625nm	
	Symbologies	2D	PDF417 , QR Code, Data Matrix, Micro QR, Micro PDF417, Aztec, etc.
		1D	EAN-13, EAN-8, UPC-A, UPC-E, Code128, Code 39, Codabar, UCC/EAN 128, RSS, ITF-14, ITF6, Standard 2 of 5, Matrix 2 of 5, Industrial 2 of 5, Plessey, MSI Plessey, Code 11,Code 93, etc.
	Resolution	≥3mil (differ from different type bar codes)	
	Typical Depth of Field	EAN-13	65-350mm (13mil)
		Code 39	45-160mm (5mil)
		PDF417	50-125mm (6.7mil)
		Data Matrix	45-130mm (10mil)
		QR Code	30-170mm (15mil)
	Scan Mode	Sense mode, Continuous mode, Command trigger	
	Scan Angle	Roll: 360°, Pitch: ±60°, Skew:±60°	
	Field of View	Horizontal 43°, Vertical 33°	
	Min. Symbol Contrast	10%	
Mechanical/ Electric	Interface	TTL-232 by itself; USB or RS232 via EVK board	
	Dimensions	21(W)×9.0(D)×6.7(H) mm (max.)	
	Weight	1.2g	
	Notification	Beep, LED indicator	
	Operating Voltage	3.3VDC $\pm$ 5%	
	Current @ 3.3VDC	Operating : 170mA(typical);	
Environmental	Operating Temperature	-20℃ to 55℃	
	Storage Temperature	-40℃ to 70℃	
	Humidity	5% to 95% (non-condensing)	
Accessories (optional)	Development kit board: equipped with a trigger button, beeper and RS-232 & USB interfaces	USB	USB virtual Com or USB-HID
		RS-232	Standard DB9 RS232 interface