

## 1D Barcode Scanner



ZKB101



ZKB102

ZKB101&ZKB102 are 1D barcode scanners. It supports multiple data transmission modes and the optional automatic sensing mode. It also supports multiple keyboard languages and secondary development of various keyboard languages.

### Features

#### ZKB101

- ZKB101 is a -32bit wired red laser scanner;
- With white and black available, fireproof, waterproof, shock-proof functions etc;
- Provides ultra-wide voltage range and high-performance electromagnetic compatibility;
- Provides USB-HID interface, analog serial port; UART interface, and KB interface;
- Standard -10core RJ45 interface;
- Supports secondary development for various project types.

#### ZKB102

- ZKB102 is a -32bit red light CCD scanner;
- Reading density and accuracy are greatly higher than the common CCD scanner in the market;
- Provides the USB-HID and UART interfaces;
- Standard -10core RJ45 interface;
- Has strong capability of identifying bar codes with low contrast;
- Supports development of modules with ultra-low power consumption;
- Supports scanning triggered by both buttons and serial commands, and supports secondary development of serial port instructions.

# Specifications

Model		ZKB101	ZKB102
Type		-32bit Wired laser barcode scanner	-32bit CCD barcode scanner
Barcode Types		EAN / JAN8-; EAN / JAN13-; UPC-A; UPC-E; CODE128-; CODE93-; RSS-Standard; Limited; Expanded; CODE39-; Inter-Leaved 5/2; Standard 5/2; Matrix 5/2; Industrial 5/2; China-Post; MSI; MSI-PLESSEY; CODE-BAR; CODE11- etc.	
Power	Voltage	DC 5.5-3.5V	DC 5.5-4.5V
	Operating Current	50mA	80mA
	Standby Current	25mA	55mA
	Maximum Peak	100mA	120mA
	Ultra-low Power Consumption	< 1mA (standby) (Optional)	< 1mA (with sleep mode)
Interface	USB-HID	Supporting USB interfaces later than USB1.1	Supporting USB interfaces later than USB2.0
	UART	baud rate range 115200-1200 bps	baud rate range 115200-2400 bps
Transmission Rate		Support low-speed, high-speed, and full-speed three data transmission modes.	/
Light Source	Wavelength	Red light of 650nm%10±	Red light of 632nm%10±
	Power	< 20mW	/
Depth of Scan Field		550-0 mm (1.0 mm density barcode test value)	500 mm maximum (0.5 mm density barcode test value)
DoF of high-density long bar codes		/	The DoF of CODE39 with the density of 0.2 mm and length of 140 mm is 50-20 mm
Scan Angle		vertical: °70; horizontal: °70	vertical: °60; horizontal: °60
Print Contrast		>=%25	>=%30
Precision		>=3mil	>=2 mil, capable of easily identifying 3 mil bar codes
Decode Speed		300 times/second	400 times/second (%150 higher than common CCDs)
Decode Error Rate		8/1 million	3/1 million
ESD Rating		Contact Discharge: 9 KV, Air Discharge 15KV	
Work Environment	Operating Temp.	°10-C ~ °50+C	°0C ~ °50+C
	Storage Temp.	°20-C ~ °60+C	°20-C ~ °70+C
	Operating Humidity	%95~ %5RH (condensing)	%95~ %20RH (non-condensing)
Anti-knock		1.8m free fall to test	
Dimension		89.9*71.1*139.5mm (L*W*H)	90* 73 *177mm (L*W*H)
Certifications		CE, FCC, ROHS, IP65, IEC60825	

