

ZKB1 Series

1D Barcode Scanner



ZKB101



ZKB102

ZKB1 Series is a 1D Barcode Scanner. 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 32-bit 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 10-core RJ45 interface;
- Supports secondary development for various project types.

ZKB102

- ZKB102 is a 32-bit 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 10-core 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		32-bit Wired laser barcode scanner	32-bit CCD barcode scanner
Barcode Types		EAN / JAN-8; EAN / JAN-13; UPC-A; UPC-E; CODE-128; CODE-93; RSS-Standard; Limited; Expanded; CODE-39; Inter-Leaved 2/5; Standard 2/5; Matrix 2/5; Industrial 2/5; China-Post; MSI; MSI-PLESSEY; CODE-BAR; CODE-11 etc.	
Power	Voltage	DC 3.5-5.5V	DC 4.5-5.5V
	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 1200-115200 bps	baud rate range 2400-115200 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		0-550 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 20-50 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		1/8 million	1/3 million
ESD Rating		Contact Discharge: 9 KV, Air Discharge 15KV	
Work Environment	Operating Temp.	-10°C ~ +50°C	0°C ~ +50°C
	Storage Temp.	-20°C ~ +60°C	-20°C ~ +70°C
	Operating Humidity	5% ~95%RH (condensing)	20% ~95%RH (non-condensing)
Anti-knock		1.8m free fall to test	
Dimension		139.5*71.1*89.9mm (L*W*H)	177* 73 *90mm (L*W*H)
Certifications		CE, FCC, ROHS, IP65, IEC60825	

