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 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℃ ~ +50℃	0℃ ~ +50℃
	Storage Temp.	-20℃ ~ +60℃	-20℃ ~ +70℃
	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	