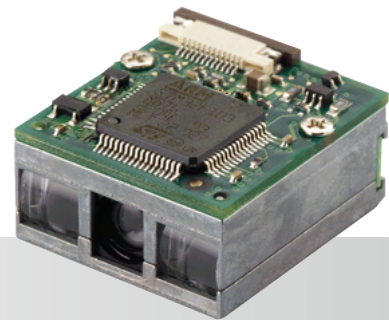


Z-5111

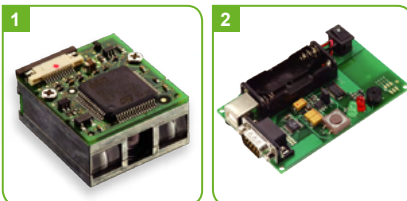
Advanced Miniature CCD Scan Engine



Z-5111 is the second generation miniature CCD scan engine made by ZEBEX with the same compact form factor and upgraded 32-bit microprocessor. The new model has a sharper scanning performance and the same built-in flexibility compare to the previous model and supports standard serial, USB interface, and USB virtual COM port. It can be easily integrated without modifying existing hardware platform in most cases. Featuring one of the smallest footprints available and two mounting holes reserved, Z-5111 is designed for effortless integration into most data capture applications.

- Durable and compact in size with industrial form factor
- Outstanding scanning performance of up to 330 scans per second
- 0 – 100,000 ambient light immunity to satisfy every application even under sunlight
- Flexible communications

1. Miniature in size with superb performance
2. Demo board



OPERATIONAL

Light Source	617 nm visible LED bright laser-imitated scanning line
Optical System	Linear CCD array
Microprocessor	32-bit
Depth of Field	4 mil: 60 – 120 mm 5 mil: 55 – 160 mm 7.5 mil: 50 – 210 mm 10 mil: 40 – 280 mm 13 mil: 50 – 330 mm 20 mil: 50 – 420 mm (Note: DOF may vary depending on environment condition and barcode quality.)
Scan Angle	43°
Scan Rate	330 scans per second
Minimum Bar Width	0.1 mm (0.07 mm actually)
Print Contrast	30% @ UPC/EAN 100%
Beeper Operation	Programmable tone & beep time
Connector	12 lower contact ZIF connector
System Interface	RS-232 (TTL level), HID USB, USB Virtual COM, OPOS, JPOS

PHYSICAL

Dimension	22.8 x 20.5 x 11.8 mm
Weight	12 g

POWER

Input Voltage	3.3 VDC ±10%
Operating Current	105 mA @ 3.3V (Typical)
Power-saving Mode	50 uA

REGULATORY

EMC	CE EN55022B; FCC Part 15 Class B, VCCI, BSMI
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ENVIRONMENTAL

Operating Temperature	0°C ~ 50°C (32°F ~ 122°F)
Storage Temperature	-20°C ~ 60°C (-4°F ~ 140°F)
Humidity	5% ~ 95% RH (non-condensing)
Light Level	0 – 100,000 Lux (any lighting condition)
Shock	2,000 G

DECODING CAPABILITY

1D Barcode	UPC/EAN/JAN, UPC-A & UPC-E, EAN-8 & EAN-13, JAN-8 & JAN-13, ISBN/ISSN, Code 39, Codabar, Code 128 & EAN 128, Code 93, ITF 2 of 5, IATA Code, MSI, China Postal Code, Code 32, Industrial 2 of 5, Standard 2 of 5, JAP, Code 11, GS1 DataBar, GS1 DataBar Limited, GS1 DataBar Expanded, Telepen
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