

Z-5112

2D Image Scan Engine



High scanning speed without compromising performance, Z-5112 is a powerful 2D image scan engine that easily decodes most 1D and 2D barcodes with intuitive aiming accuracy. It also supports standard serial, USB interface that can be easily integrated with most hardware platform. The compact dimensions can be effortlessly designed into most space-constrained products, including mobile computers, kiosks, lottery machine and more. Z-5112 is the perfect solution for many industries.

- More easy integration
- No separate decoder board required
- Flexible interface communications
- Outstanding 1D and 2D scanning performance
- Captures barcodes on mobile phone, tablet, or computer screens
- Healthcare label compliance: Supports GS1 and FMD format, can scan barcodes on medicine and vaccine



1. Micro size with superb performance.
2. Demo board.
3. Excellent expandability : Micro USB interface · buzzer.



- Product availability and specifications depend on territory market strategy; all are subjects to change without prior notice.
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OPERATIONAL

Aiming Element	617 nm LED
Illumination Element	White LED
Optical System	1280H x 720V pixels (1.0M)
Scan Angle	38.6°H x 24.9° V
Depth of Field	Code39 (5 mil) : 60 - 160 mm EAN 13 (13 mil) : 40 - 280 mm <i>(Note : DOF may vary depending on environment condition and barcode quality.)</i>
Minimum Resolution	4 mils (Code39)
Print Contrast	30% @ UPC/EAN 100%
Indicator	Blue LED
Programmable Operation	Scan mode, Beeper tone
Connector	12 lower contact ZIF connector or Micro usb (In I/O board)
System Interface	Z-5112 : (Interface : 12 pin ZIF) RS-232 (TTL level), USB HID, USB Virtual com, OPOS, JPOS Z-5112 (U) : (Interface : Micro USB) USB HID, USB Virtual com, OPOS, JPOS

PHYSICAL

Dimension	24(W) x 13.3(H) x 27(D) mm 30(W) x 13.3(H) x 27(D) mm (with I/O board)
Weight	6g / 8.5g (with I/O board)

POWER

Input Voltage	3.3 VDC / 5 VDC (with I/O board)
Operating Current	200 mA typical

REGULATORY

EMC	CE, FCC, VCCI, BSMI, EN55024, EN55032
Safety	IEC 62471 Exempt

ENVIRONMENTAL

Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Storage Temperature	-40°C ~ 70°C (-40°F ~ 158°F)
Humidity	5% ~ 95% RH (non-condensing)

DECODING CAPABILITY

1D Barcode	UPC/EAN (UPCA/UPCE/ EAN-8/ EAN-13, ISBN (Bookland), ISSN), Code 39 (Standard, Full ASCII, Trioptic, Code 32 (Italian Pharmacode), Code 128, Code 93, Codabar, 2 of 5 (Interleaved 2 of 5, Discrete 2 of 5, IATA, Chinese 2 of 5, Matrix 2 of 5, Code 11), MSI Plessey, GS1 DataBar (Omnidirectional, Truncated, Stacked, Stacked Omnidirectional, Limited, Expanded, Expanded Stacked)
2D Barcode	PDF417, MicroPDF417, Composite Codes (CC-A, CC-B, CC-C), Aztec (Standard, Inverse), Maxicode, Data Matrix/ ECC 200 (Standard, Inverse), QR Code (Standard, Inverse, Micro)