

# Zebra SE2100

## GET TURNKEY HIGH PERFORMANCE 1D AND 2D SCANNING AT AN ENTRY PRICE

Until now, you've been relying on standard off-the-shelf cameras to enable your low-cost designs with barcode scanning and settling for less-than-desired performance. Now, you no longer have to choose between cost and scanning quality. Introducing the Zebra SE2100, a tiny turnkey imager engine and illumination system that is smaller than a penny, ready to fit in your most space constrained, low-cost product designs. This entry-level scanner is competitively priced with off-the-shelf cameras — but unlike those cameras, the SE2100 offers the high quality barcode scanning performance that has made Zebra the long-term leader in scanning technology. The result? You can provide the scanning performance your business-class users require, while improving your margins.



### Improve the User Experience with High Performance 1D/2D Barcode Scanning

The SE2100's fixed focus lens is designed specifically to deliver snappy performance and accurate scanning — unlike the typical camera that is integrated into consumer-style mobile devices. And since the SE2100 delivers the same unsurpassed decode algorithms that are in all of Zebra mobile computers and barcode scanners, users will enjoy first time capture of even damaged and poorly printed barcodes, eliminating the exceptions that are common with off-the-shelf cameras — exceptions that can frustrate users and diminish the overall experience.

### Tiny "Fits Anywhere" Form Factor

Much smaller than typical scan engines, the SE2100 is a complete imager-plus-illumination system, designed to support very thin space-constrained OEM device designs, such as Mobile POS payment accessories and sleds.

### Reduce Cost, Space and Power Requirements with Software Decode

With Zebra's Software Decode Library (SDL), decoding is performed entirely in software, eliminating the need for decode hardware. With fewer components to purchase and power, battery cycle times are increased and costs are reduced. And since you no longer need to allocate space for decode hardware, the SE2100 offers one of the tiniest footprints available, making it possible to integrate high performance barcode scanning into practically any product.

### Omni-directional Scanning — Just Point and Go

The SE2100's omni-directional scanning offers unparalleled ease of use. There is never a need to align barcode and scanner, literally eliminating the need for training.

### Well-defined Illumination Field for Intuitive Use

The SE2100's intuitive illumination aimer ensures first time accurate capture of barcodes. With the bright illumination

field, users will instantly know if they are aiming at the right place — unlike standard cameras that require a display to confirm where the imager is pointed.

### MIPI Interface to Support the Newest Platforms

The SE2100 supports the next generation MIPI interface. Now, you can utilize the latest processors in your designs without sacrificing cost, integration time or precious space for incremental hardware components. The result? Faster time to market and reduced costs.

### Flexibility to Scan Mobile Barcodes

In addition to traditional barcodes printed on paper labels, the SE2100 can also capture 1D and 2D barcodes displayed on the screen of a mobile device — such as mobile coupons, mobile gift cards, mobile loyalty cards and more.

### Guaranteed Availability

Other cameras typically have extremely short product life cycles, introducing uncertainty into your supply chain — will the imager you choose today still be available in the near future? With Zebra's SE2100, the answer is a definite yes. You can count on the SE2100's long lifecycle to protect your product roadmap, product lifecycle and profitability.

**EMPOWER COST-SENSITIVE AND SPACE-CONSTRAINED DESIGNS  
WITH HIGH QUALITY BARCODE SCANNING.**

For more information, visit [www.zebra.com/se2100](http://www.zebra.com/se2100)  
or access our global contact directory at [www.zebra.com/contact](http://www.zebra.com/contact)

## Technology and a Partnership You Can Count On

When you choose the SE2100, you get proven technology that you and your users can count on. Every day, all around the world, Zebra OEM products power millions of devices in thousands of applications across industries — and we use the SE2100 in our own customer-facing products. When you choose Zebra, you get an industry leading partner that has been helping OEMs successfully implement enterprise-class barcode scanning for over 30 years. We know what you need and we provide it — from packaged reference designs and integration documents to a dedicated global sales and support team ready to deliver unsurpassed service — from the moment you place your order to the moment you deliver your products.

# SE2100 Specifications

| PHYSICAL CHARACTERISTICS    |  |
|-----------------------------|--|
| Dimensions                  | 0.89 in. H x 0.69 in. W x 0.18 in. D<br>22.5 mm H x 17.5 mm W x 4.6 mm D |
| Weight                      | 0.018 oz./0.52 grams   |
| Interface                   | 17-pin flex  |
| PERFORMANCE CHARACTERISTICS |  |
| Sensor Resolution           | 640 x 480 pixels   |
| Field of View               | Horizontal: 41.5°; Vertical: 31.7°                                       |
| Skew, Pitch and Roll        | Skew Tolerance: ±60°<br>Pitch Tolerance: ±60°<br>Roll Tolerance: 360°    |
| Focal Distance              | 4.2 in./10.7 cm  |
| Illumination                | 1 White LED  |
| USER ENVIRONMENT            |  |
| Ambient Light               | Able to decode in total darkness (0 fc) to full sunlight                 |
| Operating Temp.             | -4° to 122 F/-20° to 50° C, max. 85% RH non-condensing                   |
| Storage Temp.               | -40° to 185° F/-40° to 85° C, max. 85% RH non-condensing                 |
| Humidity                    | Operating/Storage: 85% RH, non-condensing at 140° F/60° C                |
| Shock Rating                | 2,500 g  |
| Vibration                   | Random, 0.02g <sup>2</sup> /Hz from 20Hz to 2 KHz, 4grms                 |
| ESD                         | +/- 2kV Pin Injection  |

| POWER             |  |
|-------------------|--|
| Power Supply      | AVDD = DOVDD = 2.8v typical                          |
| Operating Current | 132 mA RMS (typical) with LED illumination at 100 mA |
| Standby Current   | 96 µA RMS (typical, no clock)                        |
| Power Down        | 79 µA RMS (typical, no clock)                        |

| DECODE RANGES      |                   |                   |
|--------------------|-------------------|-------------------|
|                    | Near              | Far               |
| 5 mil Code 128     | 2.0 in / 5.1 cm   | 4.8 in / 12.2 cm  |
| 5 mil Code 39      | 1.7 in / 4.3 cm   | 5.8 in / 14.7 cm  |
| 6.6 mil PDF417     | 1.6 in / 4.1 cm   | 4.9 in / 12.4 cm  |
| 10 mil Data Matrix | 1.2 in / 3.0 cm   | 4.9 in / 12.4 cm  |
| 10 mil QR          | 1.1 in / 2.8 cm   | 5.2 in / 13.2 cm  |
| 100% UPCA          | 2.0 in / 5.1 cm   | 10.6 in / 26.9 cm |
| 20 mil Code 39     | 2.1 in* / 5.3* cm | 13.6 in / 34.5 cm |

| REGULATORY         |  |
|--------------------|--|
| LED Classification | IEC 62471:2006 and EN 62471:2008 Exempt Risk Group |
| Environmental      | RoHS Compliant                                     |

| WARRANTY  |  |
|---|--|
| Subject to the terms of Zebra's hardware warranty statement, the SE2100 is warranted against defects in workmanship and materials for a period of 15 months from the date of shipment. For the complete Zebra hardware product warranty statement, go to: <a href="http://www.zebra.com/warranty">http://www.zebra.com/warranty</a> |  |

\* Field of View limited

## Where is the SE2100 at home?

### Vertical Markets

- Retail
- Hospitality
- Healthcare
- Gaming
- Banking

### Device Types

- Payment and lottery terminals
- Mobile POS devices
- Scanning sleds/sleeves
- Enterprise Digital Assistants
- Consumer devices



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