

## Zebra SE2707

### SAVE SPACE, TIME AND COST WITH THE COMPACT, ONE-PIECE DECODED 2D IMAGING ENGINE

2D imaging is essential for reading mobile coupons, loyalty cards, tickets and more. However, traditional 2D imaging engines may have been too difficult or costly to integrate into your product design – until now. The Zebra SE2707 is a one-piece decoded 2D imaging engine that offers high performance scanning in an easy-to-integrate, cost-effective form factor. The integrated decoder eliminates the need for a separate decoder board or extra processing in the host. Its compact design and serial/USB<sup>1</sup> interface offers an easy migration from 1D laser designs. And, you won't need to sacrifice scanning performance for size or cost. The SE2707 offers the same high quality barcode scanning performance that has made Zebra the long-term leader in scanning technology. Whether you are developing mobile computers, payment terminals, mobile POS, scanning sleds, access control systems, or kiosks, you can count on the SE2707 to provide a great user experience with the lowest design cost.



#### High Performance Scanning on Printed and Mobile 1D and 2D Barcodes

The SE2707 supports a wide range of symbologies including 1D, 2D and PDF417 barcodes printed on paper labels or displayed on mobile phones or computer screens. Since the SE2707 decoded engine uses the same unsurpassed decode algorithms that are in all of Zebra's enterprise mobile computers and barcode scanners, users will enjoy first time capture of virtually any barcode in any condition – even if they are damaged or poorly printed. And omnidirectional scanning and the wide field of view make barcode capture easier than ever.

#### Reduce Development Time and Cost with Integrated Decoder

With the SE2707, the decoder is already embedded and ready to go. This eliminates the need for an extra decoder board, as well as additional programming and integration time. Unlike software decode solutions, the SE2707 does not require an OS or CPU in the host device – giving you flexibility to add high performance 2D imaging to more products, including those without an OS or high-end processor.

#### Ultra-miniature Footprint Easily Fits Wide Range of Devices

Much smaller than typical decoded imaging engines, the SE2707 brings the simplicity of an integrated decoder to your most space-constrained device designs, such as mobile POS payment accessories and scanning sleds. And unlike other small decoded solutions, you won't need to sacrifice performance for size: this small package delivers Zebra's unparalleled scanning performance.

#### Easily Upgrade Your 1D Designs

Not only is the SE2707 a similar height to laser engines, it also features the same serial 12-pin connector and uses the same flex cable as Zebra and other 1D laser engines – reducing the effort to migrate from 1D to 2D applications.

#### Intuitive Illumination Field and LED Aimer

With the bright, rectangular illumination field and LED aiming spot, users will instantly know if they are aiming at the right spot for exceptional ease of use. The SE2707's LED helps speed regulatory approval to bring your products to market faster and can be used in those applications where LED aimers are preferred.

#### Enterprise-class Durability

The SE2707 offers a 2,000 G shock rating and wide temperature range for outstanding durability in commercial, retail and industrial applications.

#### Serial or USB Interface for Easy Integration

The SE2707 supports serial and USB<sup>1</sup> interfaces for easy integration into a wide range of designs and devices. SSI communication ensures compatibility with our other decoded engines, enabling quick transitions from one engine to another.

#### Stay Up to Date with Firmware Updates

With the ability to update the SE2707's firmware and decode libraries, your products will always be up to date with the latest features, symbologies and performance enhancements.

**THE SE2707 — HIGH PERFORMANCE 1D AND 2D SCANNING IN A COMPACT, EASY-TO-INTEGRATE PACKAGE**

For more information, visit [www.zebra.com/se2707](http://www.zebra.com/se2707) 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 SE2707 decoded engine, 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. 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.

**SE2707 Specifications**

| PHYSICAL CHARACTERISTICS    |  |
|-----------------------------|--|
| Dimensions                  | 0.50 in. H x 0.88 in. W x 0.71 in. D (at flex) / 0.44 in. D (not at flex)<br>12.6 mm H x 22.3 mm W x 18.0 mm D (at flex) / 11.2 mm D (not at flex)   |
| Weight                      | 0.22 oz./6.2 grams   |
| Interface                   | SSI Control over TTL Serial or USB on a 12-pin ZIF connector   |
| PERFORMANCE CHARACTERISTICS |  |
| Sensor Resolution           | 640 horizontal X 400 vertical pixels   |
| Field of View               | 42° horizontal, 28° vertical   |
| Skew, Pitch and Roll        | Skew Tolerance: ±60°<br>Pitch Tolerance: ±60°<br>Roll Tolerance: 360°  |
| Focal Distance              | From front of engine: 7.64 in.   |
| Aiming LED                  | 610nm LED  |
| Illumination                | 1 Hyper Red 660nm LED  |
| USER ENVIRONMENT            |  |
| Ambient Light               | Max 107,639 lux (direct sunlight)  |
| Operating Temp.             | -4° F to 122° F / -20° C to 50° C  |
| Storage Temp.               | -40° F to 158° F / -40° C to 70° C   |
| Humidity                    | Operating: 95% RH, non-condensing at 122° F/50° C<br>Storage: 85% RH, non-condensing at 158° F/70° C   |
| Shock Rating                | 2000 G ±5%, any mounting surface, at -4° F and 140° F/-20° C and 60° C for 0.85 ± 0.10 ms;<br>2500 G ±5%, any mounting surface, at 73.4° F/23° C for 0.70 ±0.10 ms   |
| Power                       | <b>Serial:</b><br>Operational input voltage: VCC = 3.3 +/-0.3V<br>Total Current Draw: 340mA pk, 270mA RMS<br>Current Draw in low power: 3mA Typical<br><b>USB:</b><br>Operational input voltage: VCC = 5.0 +/-0.5V<br>Total Current Draw: 300mA pk, 200mA RMS<br>Current Draw in Suspend: <2.5mA |

| DECODE RANGES      |                  |                   |
|--------------------|------------------|-------------------|
|                    | Near             | Far               |
| 5 mil Code 39      | 2.0 in / 5.1 cm  | 6.4 in / 16.2 cm  |
| 5 mil Code 128     | 2.5 in / 6.3 cm  | 5.0 in / 12.7 cm  |
| 6.6 mil PDF417     | 2.5 in / 6.3 cm  | 6.3 in / 16.0 cm  |
| 10 mil PDF417      | 1.8 in / 4.5 cm* | 9.0 in / 22.8 cm  |
| 13 mil 100% UPC    | 2.0 in / 5.0 cm* | 12.5 in / 31.7 cm |
| 20 mil Code 39     | 2.0 in / 5.0 cm* | 19.5 in / 49.5 cm |
| 20 mil Data Matrix | 1.5 in / 3.8 cm  | 13.5 in / 34.3 cm |
| 20 mil QR Code     | 1.5 in / 3.8 cm  | 11.0 in / 27.9 cm |

\* Field of View limited

| REGULATORY         |   |
|--------------------|---|
| LED Classification | Exempt Risk Group LED product per IEC/EN 62471  |
| Electrical Safety  | Complies with IEC/EN 60950-1 + A1 + A2 and UL 60950-1 Second Edition, 2014-10-14 and CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10 |
| Environmental      | RoHS Compliant  |

**WARRANTY**  
Subject to the terms of Zebra's hardware warranty statement, the SE2707 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: <http://www.zebra.com/warranty>

Specifications subject to change without notice.

**Where is the SE2707 at home?**

**Vertical Markets**

- Retail
- Hospitality
- Healthcare
- Gaming
- Transportation
- Banking

**Device Types**

- Mobile computers
- Payment and lottery terminals
- Mobile POS devices
- Scanning sleds/sleeves
- Kiosks
- Access control systems



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