

SE4500 Array Imager

Familia compatible: SE4500

Fuente: Zebra Technologies

<https://www.zebra.com/us/en/products/spec-sheets/oem/oem-engines/se4500.html>

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Resumen

Until today, businesses were required to choose between a high performance laser engine for 1D bar code scanning or a 2D imager that offered expanded functionality - but reduced performance. The revolutionary SE4500 from Zebra eliminates this disparity, offering a comprehensive feature set that completely re-defines imaging technology. Stunning performance on 1D and 2D bar codes combines with the ability to capture still images and video, allowing businesses to deploy a world of new applications. The patent pending fast-pulse illumination and fast sensor shutter speed enable image capture at a full 60 frames per second, delivering outstanding motion tolerance. The result is the extraordinary scanning speed required to boost productivity in many industries - from retail and healthcare to transportation and logistics and public safety.

Hardware and software decode options allow you to choose the decoder strategy that best fits your product designs. Our PL hardware decoder family allows you to choose the features and form factor you need. Choose the data capture capabilities and performance level your applications require. You can also choose the form factor that best meets the needs of your product designs - a standalone circuit board that connects to your board or a microchip that is soldered to the main circuit board. In addition, we offer a purely software decode option - no hardware required - that allows you to lower your component costs, conserve battery power and improve product margins.

Designed for easy integration, the SE4500 reduces development time and cost, paving the way for highly cost-effective mobility solutions. Low power requirements help preserve ample battery power for a full shift. At less than three tenths of an ounce and approximately a quarter cubic inch, this small, lightweight device can be easily integrated into even the most space-constrained products, including mobile computers, handheld scanners, self-service kiosks, medical and diagnostic instruments, lottery terminals and more.

Provides flexibility for many applications; enables design of devices that offer multiple types of data capture; enables standardization on a single engine to streamline and reduce the cost of product development. Superior performance on 1D and 2D bar codes, improving productivity in a wide variety of applications.

Especificaciones publicadas

SE4500 Specifications

Dimensions	0.46 in. H x 0.85 in. W x 0.64 in. D 11.8 mm H x 21.5 mm W x 16.3 mm D
Weight	0.29 oz./8.22 grams
Interface	Camera Port on 21 pin ZIF connector

SE4500 Specifications

Sensor Resolution	752 x 480 pixels
Field of View	Horizontal: 40°, Vertical: 25°
Skew, Pitch & Roll	Skew Tolerance: +/- 60° Pitch Tolerance: +/- 60° Roll Tolerance: 360°
Focal Distance from Front of Engine	SR: 8 in. DL: 5.3 in. HD: 2.9 in.
Aiming LED (VLD)	655nm Laser
Illumination Element	2x 625nm LEDs

SE4500 Specifications

Ambient Light	Max 96,900 lux (direct sunlight)
Operating Temp.	-22° F to 131° F/-30° C to 55° C
Storage Temp.	-40° F to 158° F/-40° C to 70° C

Ambient Light	Max 96,900 lux (direct sunlight)
Humidity	Operating: 95% RH, non-condensing at 55° C Storage: 85% RH, non-condensing at 70° C
Shock Rating	2000 G $\pm$ 5%, any mounting surface, at -30 and 55° C for 0.85 $\pm$ 0.05 ms 2500 G $\pm$ 5%, any mounting surface, at 23° C for 0.85 $\pm$ 0.05 ms
Power	Operational input voltage: Engine: 3.3V $\pm$ 10% Current draw with illumination and aiming: 250 mA Current draw, low power mode: 500 μ A

SE4500 Specifications

5 mil Code 39	Near: 2.1 in./5.3 cm Far: 7.5 in./19.1 cm
100% UPC/EAN	Near: 1.6 in./4.1 cm Far: 15.5 in./39.4 cm
6.7 mil PDF417	Near: 3.4 in./8.6 cm Far: 7.1 in./18.0 cm
5 mil Code 39	Near: 1.4 in./3.6 cm Far: 7.3 in./18.5 cm
100% UPC	Near: 1.6 in./4.1 cm Far: 12 in./30.5 cm
5 mil PDF417	Near: 2.8 in./7.1 cm Far: 4.5 in./11.4 cm
3 mil Code 39	Near: 1.6 in./4.1 cm Far: 3.8 in./9.7 cm
4 mil PDF417	Near: 1.8 in./4.6 cm Far: 3.5 in./8.9 cm

SE4500 Specifications

Electrical Safety	UL, VDE and CU recognized laser component
Laser Classification	Intended for use in CDRH Class II/IEC 825 Class 2 devices
Environmental	RoHS Compliant

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