SE4760 OEM 1D/2D Scan Engine

Class-leading value, performance and reliability for the smallest spaces

Finding a powerful and affordable scan engine to fit into your thinnest and lightest mobile device designs has been a challenge — until today. Introducing the SE4760, designed to enable the scanning performance your applications and customers need in the tightest spaces. At just a third of an inch high (8.1 mm), weighing only a fifth of an ounce (five grams) and this tiny featherweight device can truly fit anywhere. With software decode, there's no need to allot room for a circuit board — and fewer parts reduces costs and increases profitability. Easy aiming indoors and outside allows you to create flexible designs that work in more use cases and more environments, increasing sales. Our dedicated OEM team provides all the integration support you need — so you can get your designs to market faster. And you get the well-tested award-winning scanning technology that powers over tens of millions of OEM devices in thousands of applications, in practically every industry, every day. Quickly, easily and cost-effectively put class-leading performance in the tiniest spaces in your designs with the SE4760 — only from Zebra.

Get the Ultimate in Scanning Performance

Global shutter technology
The global shutter captures the entire image simultaneously, enabling fast capture of the barcode image.

High quality lens
The superior lens ensures the quality of the image from corner to corner.

PRZM Intelligent Imaging
Only from Zebra, PRZM's software decode algorithms deliver superior performance on poor quality and challenging barcodes, for first-time, every-time scanning.

Maximum motion tolerance
High first-pass read rates allow workers to quickly capture barcodes, whether the scanner or the barcode are in motion.

Wider field of view
Capture large barcodes and multiple barcodes quickly and easily with a larger 'sweet spot' — no need for users to spend time repositioning the device to capture the barcode.

Get the Ultimate in Flexibility and Reliability

Fits-anywhere design
Just a third of an inch high (8.1 mm) and a fifth of an ounce (five grams), this tiny-but-mighty scan engine fits in the smallest spaces.

Works in any lighting
The laser aimer is easy to see in any lighting condition, indoors and outside — even in bright sunlight.

Quickly, easily and cost-effectively put class-leading scanning performance in the tiniest spaces in your mobile device designs with the SE4760.
For more information, visit www.zebra.com/se4760

Minimize space requirements with software decode

Zebra's software decode option further reduces space and system power requirements — ideal in the smallest of designs.

World-class integration support

With Zebra's dedicated OEM team, our software developers and sales engineers are ready to provide whatever help you need to integrate the SE4760 into your devices, as quickly and efficiently as possible. The result? Faster time to market. Less development time and cost. And increased profitability.

Specifications

Physical Characteristics

Dimensions	0.32 in. H x 0.88 in. W x 0.54 in. D 8.1 mm H x 22.3 mm W x 13.7 mm D
Weight	0.17 oz +/- 0.008 oz/5.0 g +/- 0.25 g
Interface	Camera Port on 21 pin ZIF connector; MIPI interface

User Environment

Ambient Light	Max 107,639 lux (direct sunlight)
Operating Temperature	-22° F to 140° F / -30° C to 60° C
Storage Temperature	-40° F to 158° F / -40° C to 70° C
Humidity	Operating: 95% RH, non-condensing at 140° F/60° C Storage: 85% RH, non-condensing at 158° F / 70° C
Shock Rating	2000 ± 100 g, ½ sine, 0.85 ± 0.1 msec shock, +X, –X, +Y, –Y, +Z, –Z directions, 6 shocks in each direction for a total of 36 shocks at -22° F/-30° C and 140° F/60° C 2500 ± 100 g, ½ sine, 0.70 ± 0.1 msec shock, +X, –X, +Y, –Y, +Z, –Z directions, 6 shocks in each direction for a total of 36 shocks at 68° F/20° C
Power	Operational Input voltage engine: VCC = 3.3 +/- 0.3 V; VCC_ILLUM = 5.0 +/- 0.5 V; VDD_IO_HOST = 1.7 to 3.6 V Total 3.3 V Current Draw (VCC = VDD_IO_HOST = 3.3 V) with illumination and aiming on = 180 mA Total 5V Current Draw (VCC_ILLUM = 5.0 V) with illumination and aiming on = 400 mA Pk for 4 ms or 1,200 mA for .63 ms Current Draw in Low-Power Modes (Idle / Hibernate / Standby) = 55mA / 0.55mA / <0.005 mA

Performance Characteristics

Effective Resolution	768 x 480 pixels
Field of View	Horizontal: 48°; Vertical: 30°
Skew Tolerance	+/- 60°
Pitch Tolerance	+/- 60°
Roll Tolerance	360°
Focal Distance	From front of engine: 7.00 in. / 17.8 cm
Aiming VLD	655 nm laser
Illumination	One (1) Warm-White LED

Regulatory

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

Decode Ranges (Typical Working Ranges)[1]

Symbology/Resolution	Near/Far
Code 128: 5 mil	2.9 in. / 7.3 cm to 7.2 in. / 18.3 cm
PDF417: 5 mil	3.1 in. / 7.8 cm to 6.1 in. / 15.6 cm
PDF 417: 6.67 mil	2.5 in. / 6.4 cm to 7.6 in. / 19.2 cm
DataMatrix: 10 mil	2.1 in. / 5.3 cm to 8.3 in. / 21.0 cm
UPCA (100%)	1.6 in. / 4.1 cm to 16.0 in. / 40.7 cm
Code 128: 15 mil	2.4 in. / 6.1 cm to 18.8 in. / 47.8 cm
Code 39: 20 mil	1.6 in. / 4.1 cm to 28.2 in. / 71.5 cm

Warranty

Subject to the terms of Zebra's hardware warranty statement, the SE4760 is warranted against defects in workmanship and materials for a period of fifteen (15) months from the date of shipment. For the complete Zebra hardware product warranty statement, please visit: www.zebra.com/warranty

Footnotes

1. Printing resolution, contrast and ambient light dependent

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