



ZEBRA SE4750 / SE4757

NEXT GENERATION INTELLIGENT IMAGING

RESET THE BAR ON IMAGING PERFORMANCE AND FLEXIBILITY

The Zebra SE4750 represents a new generation of imagers that provide unparalleled performance on just about any type of data imaginable — from 1-D and 2-D bar codes to photos and fully searchable and editable legal, letter, A4 and A5 documents. Zebra's proprietary PRZM (pronounced "prism") Intelligent Imaging technology, megapixel sensor and advanced optics work together to set the SE4750 in a class of its own.

While competitive systems rely on decode software to perform all image processing, PRZM changes the game by offloading a portion of that processing to the source of the image — the scan engine itself — reducing unnecessary delay and delivering a faster data capture experience. This unique approach helps businesses in just about any industry improve user productivity and business efficiency.

SUPPORT FOR THE NEXT GENERATION MIPI INTERFACE

Unlike its major competitors, the SE4750 supports the emerging MIPI interface as well as traditional parallel interfaces. 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.

EXTRAORDINARY WORKING RANGE

The standard scanning range on the SE4750 Standard Range is anything but standard. Users can capture data that is farther than 36 in./92 cm away — over 30 percent farther than its predecessors. The SE4750 Mid-Range expands the working range even further, to more than 20 feet / 6 m. With a wide field of view, the SE4750SR also enables reading of larger bar codes, as well as simultaneous capture of multiple bar codes.

ADVANCED DOCUMENT CAPTURE

Zebra's integrated Intelligent Document Capture technology makes it easy to capture documents that are highly legible—and searchable. With the single press of a button, this intelligent software determines when conditions are ideal to capture the highest quality image, taking the guesswork away from users. Once the image is captured, it is automatically analyzed and up to eight functions are performed as needed. In a fraction of a second, without any user intervention, shadows and noise are removed, and images are de-skewed, rotated, brightened, sharpened and cropped.

SUPERIOR INTEGRATION FLEXIBILITY

At less than nine grams (three tenths of an ounce) and approximately a quarter cubic inch, this small, lightweight imager can be easily integrated into even the most space-constrained products, from mobile computers, handheld scanners and self-service kiosks to medical and diagnostic instruments and lottery terminals. In addition, you have the flexibility to choose the decoder strategy that best fits your product designs — software or hardware. Our software decode option reduces system power requirements and integration space in your OEM device. Hardware options include a standalone circuit board that connects to your board, a microchip you can solder directly to your mother board, or the SE4757 that includes an attached decoder board for a plug-and-play imaging solution.

EASILY UPGRADE YOUR EXISTING DESIGNS TO THE LATEST IMAGING TECHNOLOGY

FEATURES

Zebra-exclusive PRZM Intelligent Imaging technology

Offloads a portion of the processing from the decode software to the scan engine, reducing processing time and enabling faster data capture

Support for MIPI and parallel interfaces

Reduces integration time and cost by eliminating components

Comprehensive data capture capabilities

Capture 1-D and 2-D bar codes in milliseconds, from high-resolution photos, to letter, legal, A4 and A5 documents that are fully searchable and editable

Extraordinary working range

Capture data farther than 20 ft / 6 cm away

SR Model with extra wide field of view

Easy close-up reading of large bar codes as well as multiple bar codes

Exceptional motion tolerance

Delivers extraordinary scanning speed on all bar codes, increasing throughput and productivity in virtually any application

Superior document processing

With the press of the shutter button, Zebra's Intelligent Document Capture software ensures the capture of the

Since the SE4750 uses the same form factor and mounting pattern as our standard-setting SE4500 imager, you can easily migrate your existing equipment to this next generation imaging technology, infusing your designs with the ability to capture more types of data, faster than ever

PROVEN TECHNOLOGY YOU CAN COUNT ON

When you choose the SE4750, you get the peace of mind that comes from choosing superior, well-tested technology. Every day, all around the world, our OEM products power millions of devices in thousands of applications across industries. You enjoy award-winning data capture technology, ease of integration, high reliability and superior performance, enabling the rapid, cost-effective design of more profitable high-quality data capture solutions.

Empower your designs with next generation imaging. For more information on the Zebra SE4750, visit www.zebra.com/se4750 or access our global contact directory at www.zebra.com/contact

SPECIFICATIONS

| PHYSICAL CHARACTERISTICS | | ENVIRONMENT (CONTINUED) | |
|-----------------------------|--|-------------------------|--|
| Dimensions | SE4750SR: 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 SE4750MR: 0.46 in. H x 0.85 in. W x 0.65 in. D 11.8 mm H x 21.5 mm W x 16.5 mm D SE4757: 0.76 in. H x 1.53 in. W x 1.10 in. D (19.4mm H x 38.8mm W x 28.0mm D) | Power | SE4750: Operational input voltage Engine: VCC= 3.3 +/-0.3V; VCC_ILLUM= 3.0 to 5.5V; VDD_IO_HOST= 1.7 to 3.6V Total Current Draw (VCC= VCC_ILLUM=VDD_IO_HOST= 3.3V) with Illumination and aiming on, 440maRMS Current draw in low power (hibernate mode) =360uA (standby mode) =15uA SE4757: Host Supply Voltage 3.3V+/-0.3V Total current draw 500mA RMS Host Supply Voltage 5V+/-0.5V Total current draw 380mA RMS Low Power current 15mA |
| Weight | SE4750: 0.29 oz./8.22 grams SE4757: 0.53 oz./15.0 grams | | |
| Interface | SE4750: Camera Port on 21 pin ZIF connectorr SE4757: 31 pin ZIF connector/ Micro USB | | |
| PERFORMANCE CHARACTERISTICS | | DECODE RANGES | |
| Sensor Resolution | 1280 x 960 pixels | SR Focus | |
| Field of View | SR: Horizontal: 48°, Vertical: 36.7° MR: Horizontal: 31°, Vertical: 23° | 3 mil Code 39 | 2.8 in./7.1 cm (Near) 6.2 in./15.8 cm (Far) |
| Skew, Pitch & Roll | Skew Tolerance: ±60° Pitch Tolerance: ±60° Roll Tolerance: 360° | 5 mil Code 128 | 2.3 in./5.8 cm (Near) 8.7 in./22.1 cm (Far) |
| Focal Distance | SR: From front of engine: 7.38 in. MR: From front of engine: 14.2 in. | 5 mil PDF417 | 3.0 in./7.6 cm (Near) 8.1 in./20.6 cm (Far) |
| Aiming LED (VLD) | 655nm Laser | 6.67 mil PDF417 | 2.2 in./5.6 cm (Near) 10.6 in./26.9 cm (Far) |
| Illumination | 2X Warm white LEDs | 10 mil DataMatix | 2.4 in./6.1 cm (Near) 10.6 in./26.9 cm (Far) |
| ENVIRONMENT | | 100% UPCA | 1.6* in./4.1* cm (Near) 23.0 in./58.4 cm (Far) |
| Ambient Light | Max 96,900 lux (direct sunlight) | 15 mil Code 128 | 2.4* in./6.1* cm (Near) 25.2 in./64.0 cm (Far) |

highest quality electronic documents; automatically identifies and corrects image quality issues; creates the smallest possible file size without impacting legibility; and attaches the image to the appropriate record

Miniature, lightweight form factor

Adds minimal weight and maximum data capture functionality; tiny size fits easily in the most space-constrained designs

Omnidirectional scanning for unparalleled ease of use

No need to ever align the bar code and imager for highly intuitive and rapid bar code capture

Multiple decode options with the same great Zebra scanning performance

Increase design flexibility with your choice of software only or hardware decode — available on a separate circuit board, a microchip or an all-in-one plug-and-play solution SE4757 with attached decoder board

Pick list mode

Enables users to easily select a single bar code to capture on a field of bar codes

Multiple engine models to meet wide variety of application requirements

Choose among various options to best suit your application: aimer (LED or laser), focus (Standard Range, Mid-range, DPM (future)), interface (parallel or MIPI), and decoded/ undecoded

| | | | |
|-----------------|---|-------------------------|---|
| Operating Temp. | -22° F to 140° F/ -30° C to 60° C (measured at engine chassis) | 20 mil Code 39 | 1.6* in./4.1* cm (Near) 36.3 in./92.2 cm (Far) |
| Storage Temp. | -40° F to 158° F/-40° C to 70° C | MR Focus | |
| Humidity | Operating/Storage: 95% RH, non-condensing at 60° C | 5 mil Code 128 | 7.4 in./18.8 cm (Near) 16.0 in./40.6 cm (Far) |
| Shock Rating | 2000 G ±5%, any mounting surface, at -30 and 60° C for 0.85 ± ms 2500 G ±5%, any mounting surface, at 23° C for 0.70 ±0.10 ms | 5 mil PDF417 | 8.1 in./ 20.6 cm (Near) 13.1 in./ 33.3 cm (Far) |
| | | 7.5 mil DataMatrix | 8.3 in./ 21.1 cm (Near) 12.8 in./ 32.5 cm (Far) |
| | | 10 mil DataMatrix | 7.0 in./ 17.8 cm (Near) 17.0 in./ 43.2 cm (Far) |
| | | 100% UPCA | 2.3* in./ 5.8* cm (Near) 38.0 in./ 96.5 cm (Far) |
| | | 15 mil Code 128 | 4.0* in./ 10.2* cm (Near) 40.0 in./ 101.7 cm (Far) |
| | | 20 mil Code 39 | 2.1* in./ 5.3* cm (Near) 54.0 in./ 137.2 cm (Far) |
| | | 100 mil Code 39 | 11.0 in./ 27.9 cm (Near) 172.0 in./ 436.9 cm (Far) |
| | | 160 mil DataMatrix | 11.5 in./ 29.2 cm (Near) 138.0 in./ 350.5 cm (Far) |
| | | * Field of View limited | |

REGULATORY

| | |
|--|---|
| Laser / LED Classification Classification | Laser Aim Models: Intended for use in CDRH Class II/IEC 825 Class 2 devices LED Aim Models: Classified as Exempt Risk Group per IEC/EN 62471 |
| Electrical Safety Safety | Laser Aim Models: UL, VDE and CU recognized laser component LED Aim Models: UL Recognized Component which complies with IEC/EN 60950-1 |
| Environmental | RoHS Compliant |

WARRANTY

Subject to the terms of Zebra's hardware warranty statement, the SE4750/SE4757 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>



ZEBRA

Part number: SS-SE4750-SE4757. Printed in USA 04/15.©2015 ZIH Corp. ZEBRA, the Zebra head graphic and Zebra Technologies logo are trademarks of ZIH Corp, registered in many jurisdictions worldwide. All rights reserved. All other trademarks are the property of their respective owners.

ZEBRA TECHNOLOGIES