SE655 Linear Imager

OEM miniature 1D scan engine

Put high performance affordable 1D scanning in your high-volume price sensitive products. Zebra's SE655 linear CCD imager engine brings affordable 1D scanning to a wide variety of products, without sacrificing performance. You get the same cornerstone benefits that have made Zebra the global leader in bar code scanning—scanning speed plus the ability to read poorly printed, low contrast and damaged 1D bar codes. And you can be assured that the SE655 has the durability and shock resistance that you've come to expect from Zebra, allowing you to provide your customers with products that deliver superior uptime—and a low total cost of ownership (TCO).



Small 1D Engine for Maximum Design, Flexibility and Rapid Integration Into a Wide Range of Products

Since this small low-profile 1D scan engine is less than 0.3 inches (7.7 mm) thick, it easily fits in the smallest spaces in your product designs.The SE655 is ideal for: PDAs for managers who need to scan a bar code to check the price on an item or shelf tag; time clocks that can automatically create accurate time cards; identity management applications to control access at entry gates; lottery kiosks; and a wide range of medical equipment, such as blood analyzers that can read bar codes on test tubes to accurately verify patient identity.

Proven Technology You Can Count on

When you choose the SE655, you get the peace of mind that comes from choosing superior, well-tested technology. Every day, all around the world, our scan engines are hard at work scanning millions of bar codes in thousands of applications across many industries. With the SE655 you enjoy best in class data capture technology, ease of integration, high reliability and superior performance. The result is the rapid yet cost-effective development of high-quality mobile and fixed devices that meet the needs of your customers—and better your margins.

Low Profile—0.3 in./7.7 mm

Fits in the smallest spaces for increased product design flexibility.

Bright Aimer and Built-in LED Illumination

Ensures first time easy and intuitive capture of bar codes.

Reads All 1D Barcodes—Including Damaged and Poorly Printed Codes

Promotes user productivity and eliminates the time and cost required to manually process errors.

2000G Shock Rating

Ensures durability for mobile devices.

Ambient Light Immunity: Bright Sunlight to Complete Darkness

Create products that can be used in any lighting condition—inside and outdoors.

High-performance 1D scanning for your high-volume, price sensitive products.

For more information, visit www.zebra.com/se655

Specifications

General Specifications

Dimensions	0.3 in. H x 0.94 in. W x 0.47 in. D 7.7 mm H x 23.8 mm W x 12.0 mm D
Weight	<2 grams
Interface	Serial

User Environment

Operating Temperature	-4° to 122° F/-20° to 50° C
Storage Temperature	-40° to 158° F/-40° to 70° C
Humidity	Operating: 5%–95% non-condensing
Power	SE-655-E100R: Camera/Aim Input Voltage: 3.3V +/- 0.3V Camera/Aim Operating Current: 165mA Low Power Current: 115µA typical Power Supply Noise: 100mV p-p max. SE-655-E300R: |Camera/Aim Input Voltage: 3.3V +/- 0.3V Camera/Aim Operating Current: 165mA Low Power Current: 800µA typical Power Supply Noise: 100mV p-p max.
Shock	2000 G
Ambient Light	0 ft. candles (0 Lux) to 10,000 ft. candles (110,000)

Performance Characteristics

Scan Angle	53.3° ± 3°
Field of View	Horizontal: 53° ± 3° Vertical: 0.4°
Illumination	LED 630 ± 30 nm
Skew Tolerance	± 30° from normal
Pitch Tolerance	± 65° from normal
Roll Tolerance	± 25° from vertical
Optical Resolution	5 mil
Scan Repetition Rate	Nominally 50 scans/second
Minimum Print Contrast	20% MRD measured at 630 nm
Power on to First Scan	300 milliseconds

Decode Ranges

Typical	
Code 128 5mil	Near: 4.25 in./107.95 mm Far: 9.25 in./234.95 mm
Code 39 5mil	Near: 2.25 in./57 mm Far: 9.75 in./248 mm
Code 39 7.5mil	Near: 1.50 in./38 mm Far: 12.75 in./324 mm
100% UPC-A	Near: 2.00* in./51 mm

Regulatory

Classification	Intended for use in CDRH Class I/IEC Class 1 devices
Electrical Safety	EMI- FCC Part 15 Class B, ICES-003 Class B, CISPR Class B, Japan VCCI Class B
Environmental	RoHS Compliant

Footnotes

Note: The distances marked with asterisk (*) are a result of the field of view (FOV) limitation.

Warranty

Subject to the terms of Zebra's hardware warranty statement, the SE655 Linear Imager is warranted against defects in workmanship and materials for a period of 15 months from the date of shipment. For complete warranty statement, go to: www.zebra.com/warranty

Markets and Applications

Decode Ranges

	Far: 15.75 in./400 mm
Code 39 20mil	Near: 1.50* in./38 mm Far: 24.0 in./610 mm
Guarenteed	
Code 128 5mil	Near: 3.90 in./99 mm Far: 6.25 in./159 mm
Code 39 5mil	Near: 3.15 in./80 mm Far: 8.00 in./203 mm
Code 39 7.5mil	Near: 2.50 in./64 mm Far: 10.25 in./260 mm
100% UPC-A	Near: 2.25 in./57 mm Far: 11.00 in./279 mm
Code 39 20mil	Near: 2.00* in./51 mm Far: 18.25 in./464 mm

NA and Corporate Headquarters
+1 800 423 0442
inquiry4@zebra.com

Asia-Pacific Headquarters
+65 6858 0722
contact.apac@zebra.com

EMEA Headquarters
zebra.com/locations
contact.emea@zebra.com

Latin America Headquarters
zebra.com/locations
la.contactme@zebra.com

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