OEM Scan Engines and Devices

Deliver industry-leading features, durability and reliability

For full detailed specification, please refer to the Data Sheet on zebra.com/oem
Contents

OEM Scan Engines
Industry-leading barcode scanning at any range

Fixed Mount Scanners
High-volume, hands-free scanning

Decoder Group
Save space and power while reducing costs with software decode

RFID Group / Print Group

Contact
Contact our team of specialists:

Icon Key

Industry sectors

- Retail
- Hospitality
- Healthcare
- Transport
- Manufacturing
- Warehouse
- Location Services
- Gaming
- Kiosk
- Field Mobility

Scan Engine Illumination & Aiming icons

- White Illumination
- No Aimer
- Red Illumination
- Red Laser Aimer
- White Illumination
- Red LED Aimer
- White Illumination
- Green LED Aimer
- Red Illumination
- Red Laser Aimer

Scanning Icons

1D Scanning
1D & 2D Scanning
OEM Scan Engines
Industry-leading barcode scanning at any range
OEM Scan Engines

SE950
Raising the bar for miniature scan engines, with optimum quality, reliability and durability
- Use in fixed and mobile devices
- For enterprise, general purpose and consumer use
- 1-piece scan engine
- SSI control over TTL serial on a 12 pin ZIF connector

SE960
The largest feature set in one of the smallest engines available
- Use in fixed and mobile devices
- For enterprise and general purpose use
- 1-piece scan engine with on-board decoder
- Serial host interface
- Mid-range scanning distance
- Adaptive scanning
- Programmable scan angle
- Die cast zinc chassis
- Lifetime warranty on polymer scan element

SE655
Brings affordable 1D linear scanning to a wide variety of products
- Use in fixed and mobile devices
- For enterprise, general purpose and consumer use
- 1-piece scan engine with on-board decoder
- Serial host interface
- Near to contact and standard range scanning distance
- Low profile: 7.7mm high
- 1D linear CCD
- Scan from digital display screens
- 2000G shock rating

Scanning distances:
- Near to contact scanning 0-10”
- Standard Range = up to 16” - 24” on 100% UPC
- Mid-Range = up to 36” on 100% UPC
- Extended Range = 25’ on large barcodes
- High Density = close range on high density barcodes
# OEM Scan Engines

## SE2100
An affordable tiny turnkey combination imager engine and illumination system
- Use in fixed and mobile devices
- For general purpose and consumer use
- Scan engine with software decoder running on host device
- MIPI host interface
- OCR & image capture
- Near to contact scanning distance
- MIPI or PL5000 decode
- 640x480 VGA sensor

## SE2707
High-performance Decoded scan engine in an easy-to-integrate, cost-effective form factor
- Use in fixed and mobile devices
- For enterprise, general purpose and consumer use
- 1-piece scan engine with on-board decoder
- Serial or USB host interface
- Image capture
- Near to contact and standard range scanning distance
- Decoded engine
- Serial or USB
- 640 x 480 VGA sensor

## SE4100 / SE4107
The ultra-miniature and cost effective 2D imaging engine
- Parallel and MIPI host interface
- Low-height (6.9mm)
- Ideal for space constrained products
- Decoded or un-decoded options
- SE4100 Parallel and MIPI
- SE4107 serial or USB
- 1280x960 sensor

## SE4700
Undecoded 2D imaging engine offering high performance scanning in an easy-to-integrate, cost-effective form factor
- Use in mobile devices
- For general purpose use
- Scan engine with software decoder running on host device
- Parallel and MIPI host interface
- Near to contact & standard range scanning distance
- 640x400 sensor

### Scanning distances:
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OEM Scan Engines

SE3300
High-quality performance in an affordable package

- Use in fixed devices
- For enterprise and general purpose use
- Hardware decoder separate from scan engine
- Scan engine with software decoder running on host device
- Parallel, Serial/Serial USB host interface
- OCR, document & image capture
- Near to contact, standard range & high-density scanning distance
- Three models: SR HD W
- 752x480 sensor

FIND OUT MORE

SE3307
A single piece of hardware to minimize integration efforts

- Use in fixed devices
- For enterprise and general purpose use
- 1-piece scan engine with on-board decoder
- Serial/Serial USB host interface
- OCR, document & image capture
- Near to contact, standard range & high-density scanning distance
- Three models: SR HD WA
- 752x480 sensor

FIND OUT MORE

SE4710
A miniature high-performance imager for mobile devices

- Use in fixed and mobile devices
- For enterprise and general purpose use
- Hardware decoder separate from scan engine
- Scan engine with software decoder running on host device
- Parallel & MIPI host interface
- OCR, document & image capture
- Standard range scanning distance
- Wide field of view
- Extraordinary working range (near contact to 60cm)
- MIPI & parallel
- 1280x800 sensor

FIND OUT MORE

SE4760
Ideal for integration into mid-tier mobile computing devices

- Use in mobile devices
- For enterprise and general purpose use
- Scan engine with software decoder running on host device
- MIPI host interface
- OCR, document & image capture
- Near to contact & standard range scanning distance
- Superior motion tolerance with global shutter
- 768x480 sensor

FIND OUT MORE

Scanning distances:
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OEM Scan Engines

SE4720
The ultimate in flexibility with a small design that fits anywhere
- Use in fixed and mobile devices
- For enterprise and general purpose use
- Hardware decoder separate from scan engine
- Scan engine with software decoder running on host device
- Parallel & MIPI interface
- OCR, document & image capture
- Near to contact & standard range scanning distance
- MiPI & parallel
- Global shutter
- 1200x800

SE4750 / SE4757
 Resets the bar for imagers, with unparalleled performance on many types of data
- Use in fixed and mobile devices
- For enterprise and general purpose use
- Hardware decoder separate from scan engine
- Scan engine with software decoder running on host device
- Parallel or MIPI and Serial USB host interface
- OCR, document & image capture, direct part marking
- Standard range, mid range and high density scanning distance
- Models: SE4757-SR
- Models: SE4750 SR MR DP
- Global shutter
- 1280x960
- SE4750 – SR MR DP
- SE4757 – SR only

SE4770
Ideal for scanning at longer ranges or in bright sunlight
- Use in fixed and mobile devices
- For enterprise and general purpose use
- Hardware decoder separate from scan engine
- Scan engine with software decoder running on host device
- Parallel or MIPI interface
- OCR, document & image capture
- Near to contact & standard range scanning distance
- Global shutter
- 1280-800

SE4850-ER
New extended range imaging engine with brighter laser
- Extended range 2D imaging engine
- Auto focus
- MIPI interface
- Class 2 bright laser aim
- Dual sensor
- Extended range
- Use in mobile device, hand held scanners, drones, robots
- Extended range 2D imaging engine
- Auto focus
- MIPI interface
- Auto range detection system
- Dual (near & far) rolling shutter mega pixel 1280x800 sensors
- SW or PL5000 decode
- 7cm to 21 meters range (symbology dependent)

Scanning distances:
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Fixed Mount Scanners
High-volume, hands-free scanning
Fixed Mount Scanners

MS954
Ideal for OEM device designs with space constraints, such as kiosks and clinical diagnostic equipment
- For enterprise use
- 1-piece scan engine with on-board decoder
- RS232 serial interface
- Standard range scanning distance

Find out more

DS457
Fast and accurate scanning in a tiny footprint that fits in the most space-constrained areas
- For enterprise use
- 1-piece scan engine with on-board decoder
- Serial & USB host interface
- OCR, document & image capture, direct part marking
- Standard range and high density scanning distance
- Four models: SR HD DL DP

Find out more

SE3317-WA
All-in-one solution with imager engine, decoder & advanced auto trigger
- For enterprise and general purpose use
- 1-piece scan engine with on-board decoder
- Serial USB host interface
- OCR, document & image capture
- Near field & standard range scanning distance
- Wide VGA 752x480
- Integrated scan window
- Integrated proximity sensors
- Integrated beeper
- Five mounting points with shock absorption gromets

Find out more

Scanning distances: Near contact scanning 0-10” | Standard Range = up to 16” - 24” on 100% UPC | Mid-Range = up to 36” on 100% UPC | Extended Range = 25’ + on large barcodes | High Density = close range on high density barcodes
## Fixed Mount Scanners

<table>
<thead>
<tr>
<th>MS4717 Cone / Window</th>
<th>MS4717 performance with cone mount for contact scanning at the exit window</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Weight:</strong> 4.13oz / 117g</td>
<td><strong>Weight:</strong> 4.13oz / 117g</td>
</tr>
<tr>
<td><strong>IP54</strong></td>
<td><strong>IP54</strong></td>
</tr>
<tr>
<td><strong>Field of view:</strong> 42° H x 28° V nominal</td>
<td><strong>Field of view:</strong> 42° H x 28° V nominal</td>
</tr>
<tr>
<td><strong>Aiming pattern:</strong> circular 610nm amber LED</td>
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</tr>
<tr>
<td><strong>5.0 ft./1.5 m to concrete</strong></td>
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</tr>
<tr>
<td><strong>Fits inside most kiosk designs</strong></td>
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</tr>
<tr>
<td><strong>MS4717 included, preinstalled</strong></td>
<td><strong>MS4717 included, preinstalled</strong></td>
</tr>
<tr>
<td><strong>Micro-USB</strong></td>
<td><strong>Micro-USB</strong></td>
</tr>
<tr>
<td><strong>Integrated beeper</strong></td>
<td><strong>Integrated beeper</strong></td>
</tr>
<tr>
<td><strong>Integrated user feedback LED</strong></td>
<td><strong>Integrated user feedback LED</strong></td>
</tr>
<tr>
<td><strong>Intuitive scanning at near contact</strong></td>
<td><strong>Intuitive scanning at near contact</strong></td>
</tr>
<tr>
<td><strong>EVA compliant mounting points</strong></td>
<td><strong>EVA compliant mounting points</strong></td>
</tr>
<tr>
<td><strong>1.5mm front glass</strong></td>
<td><strong>1.5mm front glass</strong></td>
</tr>
<tr>
<td><strong>SR DL</strong></td>
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</table>

**Features a small footprint that can be integrated into a wide variety of enclosures from multiple sides**

- Use in fixed devices
- Micro USB interface
- Two models: SR DL
- Decoded engine
- Micro-USB
- Easy to mount: 10 points, five sides
- Flat front for flush installation/mounting
- Integrated beeper
- Integrated user feedback LED

**MS4717**

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**Fixed Mount Scanners**

- Micro-USB
- Integrated beeper
- Integrated user feedback LED
- Intuitive scanning at near contact
- EVA compliant mounting points
- 1.5mm front glass
- SR DL

**Fixed Mount Scanners**

- Micro-USB
- Integrated beeper
- Integrated user feedback LED
- Intuitive scanning at near contact
- EVA compliant mounting points
- 1.5mm front glass
- SR DL
Decoder Group

Save space and power while reducing costs with software decode
Decoder Group

PL5000
A model that will fit in every product design
- Use in fixed and mobile devices
- For enterprise and general purpose use
- Hardware decoder separate from scan engine
- OCR, document & image capture, direct part marking
- Near field, standard, mid-range, extended-range and high density scanning distance
- 3 sizes/form factors
  - A - 30x16x8mm approx. MIPI, parallel, parallel+DPM
  - B - 39x26x6mm approx. parallel, parallel USB, parallel+DPM
  - C - BGA chip, 104 ball grid array. 19x12x3mm approx. MIPI, parallel, parallel+DPM

SDL
Connects the Zebra 2D imaging engine directly to a host device central processing unit
- Use in fixed and mobile devices
- For enterprise, general purpose and consumer use
- Scan engine with software decoder running on host device
- OCR, document & image capture, direct part marking
- Software decode libraries
- For Zebra scan engines with no hardware decoded
- Unlimited use with Zebra scan engines
- <100ms decode speed

SDC
- Use in mobile devices
- For enterprise and consumer use
- Host device has a camera - no scan engine needed
- Software decoder only
- Software decode for cameras
- For COTS devices with cameras
- Same algorithms as used in Zebra enterprise grade scan engines
- <1 second decode speed

Scanning distances:
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87% of shoppers say they would prefer to use touchless or robust self-checkout options.

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**RFID Group**

**RE40**
- Zebra's first RFID module designed to be embedded into third-party OEM equipment
- Use in fixed and mobile devices
- For enterprise and consumer use
- SMT module or PCB mounted carrier board
- Module orderable in 10 pack or tray of 200 unit tape & reel
- PCB with dual antenna port
- EPC global UHF gen 2
- ETSI EN 302 208
- Module 28x30x3mm
- PCB 70x43x10mm

**ZC30K**
- Single or dual sided printing
- Full colour dye sublimation or monochrome thermal transfer printing
- Standard CR80 54 x 85.6 mm PVC or PVC composite 30-mil cards
- Integrated card flipper in the dual-sided version
- Front & read card ejection ports
- 300 dpi print resolution
- USB 2.0 and Ethernet
- 2GB Flash memory
- 3 tri-colour status lights
- 10 card reject bin
- 2 year warranty on print head

**Print Group**

**Scanning distances:**

- Near to contact scanning 0-10”
- Standard Range = up to 16” - 24” on 100% UPC
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Why Zebra for OEM?

With Zebra’s comprehensive and proven OEM portfolio, you can:

- Deliver leading edge technologies that increase customer loyalty
- Speed up your time to market
- Improve your profit margins
- Take time and cost out of your product development cycles
- Build your brand

From component scan engine technology that easily integrates into your design, to private labelled wireless and mobile computing solutions with your specifications and brand logo, our OEM portfolio delivers solutions your customers can count on, while reducing your costs and time-to-market.

Contact

Be powered with Zebra OEM inside. Visit www.zebra.com/oem or access our global contact directory at www.zebra.com/contact

For full detailed specification, please refer to the Data Sheet on zebra.com/oem