SOFTWARE DECODE FOR CAMERAS (SDC)

EMPOWER OFF-THE-SHELF MEGAPIXEL CAMERAS WITH QUALITY 1-D/2-D SCANNING

FAST AND RELIABLE 1-D/2-D BAR CODE SCANNING FOR COMMERCIAL OFF-THE-SHELF CAMERAS

With SDC, you can empower your enterprise class mobile devices with enterprise-quality 1-D/2-D bar code scanning — no dedicated scan engine required. SDC brings the same industry-leading algorithms used in Zebra hardware decoders to any off-the-shelf megapixel camera, providing your customers with the first-time every-time easy bar code scanning in non-scan intensive applications. Your customers will enjoy rapid decode speed, even on damaged, scratched or poorly printed bar codes — as well as bar codes printed on paper or displayed on a screen. Hyper-resolution technology provides a wider scanning range as well as easy capture of small bar codes. And with enterprise-class scanning accuracy, you no longer need to worry about erroneous decodes that can lead frustrated users to mistrust and abandon your application.

ONE LICENSE PER DEVICE

With this cost-effective solution, one license per device enables bar code scanning in any number of applications, providing real value for you — and your customer.

REDUCED POWER REQUIREMENTS

Battery life is a crucial aspect of any mobile device. Since there is less hardware to power, there is more power for applications, other hardware and other device operations. Battery cycle times are extended — more time between charges translates into ample power for a full shift.

REDUCED SPACE REQUIREMENTS

Eliminating the need to integrate a dedicated scan engine reduces space requirements, making it easier to include all the features your customers want in a business-class device that offers the slim, ergonomic appeal of today's consumer-style mobile devices.

LESS COST = HIGHER MARGINS

By eliminating the need for a dedicated scan engine, your hardware requirements are reduced, increasing your margins and your overall profitability.

SUPPORT YOU CAN COUNT ON

When you choose Zebra's SDC, you get the support you need for successful development and integration. Complete documentation provides a strong knowledge base for development engineers. And Zebra's engineering resources are available and ready to help with any issue.

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SDC COMPONENTS
Libraries

Contains image processing software, decoding logic and command interpretation; interface between scanning application and the underlying camera; interface between hardware drivers and users

- Provides an API for full access and control of the scanning function
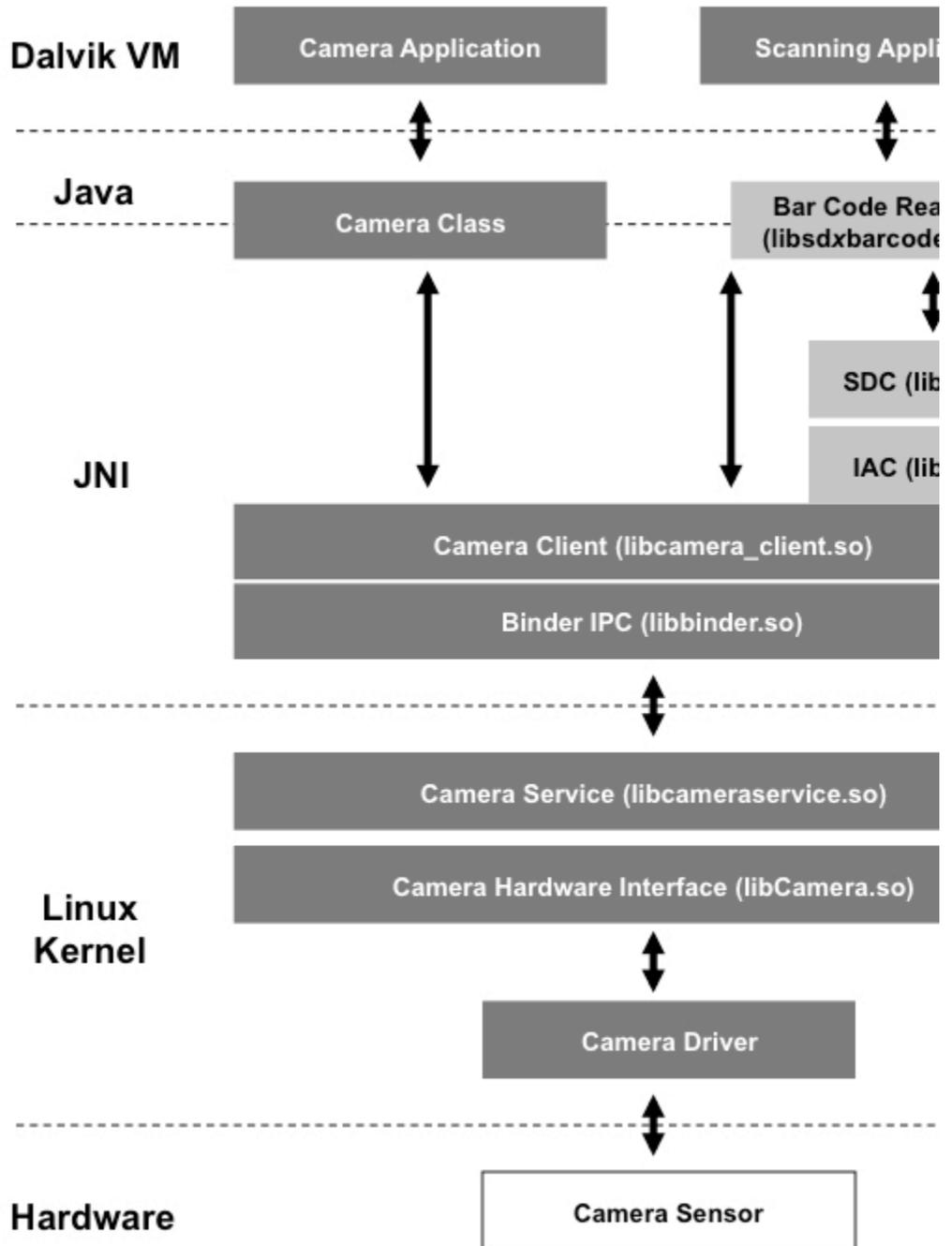- Provides a single point of contact for all scanning interaction

Sample applications

Sample applications are provided as source code:

- Sets a starting point for custom application development
- Greatly simplifies the debugging process by enabling easy testing

Empower the cameras in your mobile devices with Zebra's enterprise-quality bar code scanning to drive down cost, space requirements and power requirements. To find out how, visit **www.zebra.com/sdc** or access our global contact directory at **www.zebra.com/contact**

THE ZEBRA SDC IN ACTION

Dalvik VM	Camera Application		Scanning Appli
	Camera Class		Bar Code Rea (libsdxbarcode
Java			
			SDC (lib
JNI			IAC (lib
	Camera Client (libcamera_client.so)		
	Binder IPC (libbinder.so)		
Linux Kernel	Camera Service (libcameraservice.so)		
	Camera Hardware Interface (libCamera.so)		
	Camera Driver		
Hardware	Camera Sensor		

How does SDC work?

Camera images captured on the device are intercepted for further processing by the decoding libraries to isolate and extract any bar code information. The decoded data is then dispatched to a scanning application. This decode solution is 100 percent software – there is no decode hardware required.

SPECIFICATIONS CHART

SUPPORTED SYMBOLOGIES

Linear Codes	UPC-A/E, EA N-8/13, JAN 8/13, UPCE 1, ISBN / Bookland, ISSN, Coupon Code, Bookland EA N, Code 39 (Standard, full ASCII), Code 128, GS1-128, ISBT 128, Trioptic Code 39, TLC-39, Code 93 , 2 of 5 (Interleaved, Discrete, IATA , Chinese), GS1 DataBar, GS1, Composite Codes, Korean 3 of 5 (Postal)
2-D Codes	PDF417, MicroPDF417, Datamatrix (including inverse), QR Code (including inverse), MicroQR Code, Aztec (including inverse), Maxicode, Han Xin (Chinese Sensible Code)
Postal Codes	POSTNET , PLANET , UK Postal, Canada Post, Dutch Postal (KIX), Japan Post, Australian Post, Royal Mail, 4 State USPS, 4CB/ OneCode/Intelligent Mail, UPU FICS Postal

Required Resolution	Linear: 1.5 pixels required per narrow element Matrix Codes: 2.70 pixels required per cell

SOFTWARE DEVELOPMENT KITS (SDKS)

Operating Systems	Google Android; Apple iOS; Microsoft Windows

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