

### ZEBRA DS9808-R

## NEXT-GENERATION HYBRID PRESENTATION IMAGER WITH INTEGRATED RFID

#### DEPLOY THE BEST OF ALL WORLDS FOR A TRULY FUTURE-PROOF AND COST- EFFECTIVE POS.

Zebra's DS9808-R is the first combination 1D/2D bar code scanner and RFID reader and the first combination handheld/hands-free UHF RFID reader. Its revolutionary imaging engine enables the capture of 1D and 2D bar codes as well as images and signatures, with record swipe speeds on both 1D and 2D bar codes. In addition, the read range for RFID tags can be adjusted to suit the environment. For example, the RFID read range in presentation mode can be decreased to prevent inadvertent reading of RFID tags in a nearby cash-wrap, while the range in handheld (triggered) mode can be increased to read RFID tags that are further away. The DS9808-R offers the flexibility to accommodate virtually any type of data capture application, including support for: 1D and 2D paper and mobile bar codes, mobile coupons, mobile loyalty cards, mobile boarding passes, PDF417 bar codes, reading/writing\* RFID tags

#### REALIZE THE BENEFITS OF ITEM-LEVEL RFID WITH THE LAST LINK IN THE RFID CHAIN

The DS9808-R complements Zebra's RFID portfolio, allowing retailers to implement RFID from the receiving dock to the POS. Retailers can realize the benefits of real-time item-level inventory visibility, including: timely re-ordering to eliminate out-of-stocks and associated lost sales, increased inventory turns and reduced inventory carrying costs, real-time trending analysis for better purchasing decisions, timely replenishment of your shelves with minimal human intervention.

#### RICH BEST-IN-CLASS RFID FUNCTIONALITY AT THE POS

The comprehensive RFID feature set enables retailers to maximize the value of RFID technology in the store. In addition to reading tags to complete purchases, capabilities include: Commission tags on new inventory items and returned goods. Built-in filtering prevents accidental multiple entries of the same tag - Associates will hear a single beep as the tag data is captured and entered into the transaction, just as if a bar code was scanned, providing associates with a familiar and intuitive process that eliminates the need for training. Special RFID data conversion software for on-the-fly translation of the RFID EPC tag data to UPC bar code data. A pilot test or full RFID solution can be implemented quickly, easily and cost-effectively into any existing retail technology environment.

#### MAXIMUM EASE OF USE FOR MAXIMUM THROUGHPUT

The DS9808-R allows associates to instantly switch scanning modes. Switching from hands-free presentation style scanning to handheld mode is as easy as picking up the device. The unique tri-function trigger design enables retailers to assign up to three specific functionalities in the same trigger. For example, the upper and lower triggers could activate the bar code reader and pressing both triggers together could activate the RFID reader.

#### MULTIPLE FUNCTIONS ON A SINGLE DEVICE OFFERS RAPID RETURN ON INVESTMENT (ROI)

With the flexible DS9808-R, there is no need to purchase multiple devices to support different types of data capture in your enterprise. The DS9808-R provides the functionality of an RFID reader/writer, an image capture device and a bar code scanner all in a single device. Capital and operational costs are significantly reduced, there are fewer devices to purchase and manage.



# FEATURES Innovative hybrid desig

Truly designed for ease of use for both hands-free and handheld scanning; dynamically switches between modes

### Multiple technologies, one device

The DS9808-R supports several technologies eliminating the need to purchase and maintain multiple devices. A single device supports a wide range of data capture applications including reading and writing\* of RFID tags, decoding 1D, 2D and PDF417 symbologies and capturing images.

#### Omni-directional bar code scanning; wide working range, laser aiming pattern

Easy to use; no need to align item and scanner; virtually no training require

# Withstands multiple 4 ft./1.2 m drops to concrete

Designed to endure the rigors of everyday use for maximum reliability, uptime and a low total cost of ownership

#### Swipe speed programmable up to 100 inches/254 cm per second

Optimized scanning speed delivers robust performance and accurate capture of a wide variety of bar codes

Maximum flexibility and control

SPECIFICATIONS CHART	
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SPECIFICATIONS CHANT	

PHYSICAL CHARACTERISTIC		PERFORMANCE CHARACTERISTICS	
Dimensions	8.5 in. (max) H x 3.5 in. W x 6 in. D		, DS9808DL** and DS9808LL**
Weight	15.2 cm D 16.4 oz/465 g	Light Source	Aiming Pattern: 650nm laser diode Illumination: 630nm LED
Voltage and Current	Nominal: 5V ±5% VDC @ 1.2 A	Imager Field of View	39° H x 25° V
Data Capture Options	1D/2D bar codes and RFID tags	Roll/Pitch/Yaw	360°, ±65°, ±60°
Color	Twilight Black	Swipe Speed	Programmable up to 100 in./ 254 cm per second (Horizontal Read Rate)
SYMBOLOGY DECODE CAPABILITY		Frame Rate	Up to 60 frames per second
1D	UPC/EAN, Code 11, Code 39, Code 128, Code 93, Codabar/NW7	DS9808LR and DS980	8LL** Laser Scanner Mode
		Light Source	650nm LED
	, MSI Plessey, I 2 of 5, Korean 3 of 5, GS1 DataBar, Base 32 (Italian	Scan Angle	40° ±3° nominal
	Pharma), PDF417, Micro PDF417, Composite Codes, Aztec, DataMatrix, MaxiCode, QR Code,	** Available in the US	only.
	Micro QR, Postal Codes Refer to Product Reference Guide	RFID	
PDF417 (and variants):	for complete list of symbologies.  PDF417 (Standard, Macro), MicroPDF417 (Standard, Macro), Composite Codes (CC-A, CC-B, CC-C)	Frequency	U.S., Canada, Mexico, Columbia, El Salvador, Guatemala  865.6 - 867.6 MHz: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, United Kingdom,
2D	TLC-39, Aztec (Standard, Inverse), MaxiCode, DataMatrix/ECC 200 ( Standard, Inverse), QR Code ( Standard, Inverse, Micro)	-	
Postal	U.S. Postnet and Planet, U.K. Post , Japan Post, Australian Post, Netherlands KIX Code, Royal Mail 4 State Customer, UPU FICS 4 State Postal, USPS 4CB,	-	
Nominal Working Range (Handheld):	Canadian Post (Postbar)  See chart on back		902 - 907.5 MHz / 915 - 928 MHz: Brazil
Nominal Working Range (Hands-free):	See chart on back	-	865 - 868 MHz / 920 - 925 MHz: Hong Kong, Singapore
Minimum Resolution	Code 39 – 4 mil, UPC – 7.8 mil ( 60%), PDF417 – 5 mil, Datamatrix – 5 mil	-	Other countries are pending. Please contact your local Zebra sales representative for availability in your region.
		- Tag Type	EPCglobal Class 1 Gen 2 (ISO

Independent RFID antenna power level controls for both hands-free and handheld operation help avoid inadvertent RFID tag reads; triggered operation in handheld mode offers unmatched control for reading RFID tags at the POS

## Integrated compact base

Requires very little real estate, enabling easy deployment in even the most space constrained cash wraps

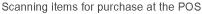
IMAGING CHARACTERISTICS			18000-6C)
Graphics Format Support	Images can be exported as Bitmap , JPEG or TIFF	Read Range/RF Adjustable from near contact up to Power 40 inches/1 m depending on tag	
Image Transfer Speed	USB 2.0: Up to 12 Megabits/ second RS-232: Up to 115 kb/second	-	sensitivity and orientation
		USER ENVIRON	NMENT
Image Transfer Time	Typical USB application is ~0.2	Operating Temp.	32° to 104° F /0° to 40° C
	seconds with a compressed JPEG of 100kb	Humidity	5% to 95% RH (Non-Condensing)
Image Quality	120 DPI on a 4 x 6 in./10.2 x 15.2 cm document @ 6.5 in./16.5 cm	Drop Specification	Withstands multiple 4 ft./1.2 m drops to concrete
		Ambient Light	Incandescent – 150 ft. candles (
INTERFACES		Immunity	1,600 Lux) Sunlight – 8,000 ft. candles ( 86,000 Lux) Fluorescent – 150 ft. candles ( 1,600 Lux) Mercury Vapor – 150 ft. candles ( 1,600 Lux) Sodium Vapor – 150 ft. candles ( 1,600 Lux) Immune to normal or artificial light
Interfaces Supported	USB, RS-232, RS-485* (Port 9B, Port 5B) (*Tag "write" commands are not supported via RS-485)	_	
WARRANTY		_	
	of Zebra's hardware warranty		
	B is warranted against defects in terials for a period of 3 years from	REGULATORY	
	For the complete Zebra hardware		III 00050 4, 004 002 2 N - 00050
product warranty statement, go to: http://www.zebra.com/warranty  PRODUCT AVAILABILITY		Electrical Safety	UL60950-1; CSA C22.2 No. 60950 -1; IEC60950-1
		Laser Safety	IEC 60825-1; 21CFR1040.10; CDRH Class II; IEC Class 2
Currently available in Austria, Belgium, Brazil, Bulgaria, Canada, Colombia, Cyprus, Czech Republic, Denmark, El Salvador, Estonia, Finland, France, Germany, Greece, Guatemala, Hong Kong, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Mexico, Netherlands, Norway, Poland, Portugal, Romania, Singapore, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, United Kingdom, United States. Other countries are pending. Please contact your local Zebra representative for availability in your region.		EMI/RFI	FCC Part 15 Class B; Canada RSS-210; ICES-003 Class B
		RF Exposure	FCC 47CFR Part 2, OET Bulletin 65 Supplement C
		Environmental	Compliant with RoHS directive 2002/95/EEC
		Regulatory Model Numbers	DS9808-RUS – US Version DS9808-RWW – Worldwide ( Non-US) version
NOMINAL WORKING RANGE ( HANDS-FREE):		RECOMMENDED SERVICES	
	R, DS9808-DL** and DS9808-LL	Customer Services	Service from the Start Advance Exchange Support
Code 39 – 5 mil:	0 – 4.5 in. (0 – 11.4 cm)		
UPC/EAN – 10 mil ( 80%):	0 – 7.0 in. (0 – 17.8 cm)	NOMINAL WORKING RANGE ( HANDHELD):	
UPC/EAN – 13 mil (	0 – 8.0 in. (0 – 20.3 cm)	DS9808-LR and DS98	08-LL**
100%):		Code 39 – 5 mil:	0 – 5.0 in. (0 – 12.7 cm)
PDF417 – 6.6 mil:	0 - 4.5 in. (0 - 11.4 cm)	UPC/EAN - 10 mil ( 80%):	0 – 13.5 in. (0 – 34.3 cm)
Datamatrix – 10 mil:  ** Available in the US	0 – 4.5 in. (0 – 11.4 cm) only.	- UPC/EAN – 13 mil ( 100%):	0 – 18 in. (0 – 45.7 cm)
		DS9808-SR and DS98	08-DI **

Code 39 – 5 mil:	0 – 4.5 in. (0 – 11.4 cm)			
UPC/EAN – 10 mil ( 80%):	0 – 8.5 in. (0 – 21.6 cm)			
UPC/EAN - 13 mil ( 100%):	0 – 10.5 in. (0 – 26.7 cm)			
DS9808-SR, DS9808-LR, DS9808-DL** and DS9808-DL **				
PDF417 – 6.6 mil:	0 – 5.0 in. (0 – 12.7 cm)			
Datamatrix – 10 mil:	0 - 6.0 in. (0 - 15.2 cm)			

<sup>\*\*</sup> Available in the US only.

#### ONE MULTI-FUNCTION SCANNER...MANY USES

The DS9808-R can be utilized in many different industries and many different applications, including: RETAIL



Beyond POS: Price checking, new inventory commission, separated inventory identification (e.g. fitting rooms), and returns processing

RFID serialization protects against return attempts on items that were not purchased as well as items that were purchased at competing chains

Commission RFID tags at point of manufacture or for stocking in store-level deployments Back-room price checking

Return To Vendor (RTV) applications (old, damaged, mismatched product going back for credit)

#### **ASSET MANAGEMENT**

Commissioning assets into an RFID Asset Management application

#### HOSPITALITY/LOYALTY

Membership Identification

#### GOVERNMENT/TRANSPORTATION

Proof of Identity

#### **HEALTHCARE**

Medication check-in, receiving or dispensation

#### **PHARMACIES**

Check-in, receiving or dispensation at bottom-level, box level or item level RFID-tagged drugs and medication

#### **LIBRARIES**

Check-in, self checkout and auto-sorting

### LAW, INSURANCE AND GENERAL OFFICE ENVIRONMENTS:

ENTERPRISE FILE/DOCUMENT TRACKING

Real-time tracking of files and folders on desks and in boxes, containers, or reusable totes

Cost-effective archiving and timely access/inquiries

Compliance with regulatory requirements

Automate monitoring of check-out time limitations and delinquent returns

Automated alerts for unauthorized access

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