



MOTOROLA 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

The DS9808-R is a ground-breaking data capture device that represents two Motorola firsts. The DS9808-R is not only the first combination 1D/2D bar code scanner and RFID reader, it also represents a new RFID product category — the first combination handheld/hands-free UHF RFID reader. Motorola's 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. The hands-free read range for bar codes and RFID tags can be adjusted to meet your needs — for example, the RFID read range can be set to prevent the inadvertent capture of RFID tags in a nearby cash-wrap. The flexible device can capture virtually any 1D or 2D bar code quickly and easily on paper labels as well as on mobile phone displays, providing built-in support for emerging applications — mobile coupons and mobile loyalty cards in retail to mobile boarding passes at the airport.

The DS9808-R can also capture and parse the PDF417 bar codes on U.S. driver's licenses and other AAMVA compliant ID cards, enabling retailers to automatically populate a credit or loyalty care application or other form. The result is the extraordinary flexibility to accommodate virtually any type of inventory management technology at the POS — all with a single cost-effective device.

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

The DS9808-R complements Motorola's RFID portfolio, allowing retailers to easily implement RFID from the receiving dock to the checkstand. Retailers can now realize the proven benefits of real-time item level inventory visibility, including: timely re-ordering to eliminate out-of-stocks and the associated lost sales; increased inventory turns, which in turn reduce inventory carrying costs; real-time trending analysis for better purchasing decisions that put more of the products your customers want on the shelves of your store; and the ability to ensure timely replenishment of your shelves — with minimal human intervention.

FEATURES

Innovative hybrid design

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

Motorola MAX Data Capture

Offers Motorola's bestin-class advanced data
capture capabilities for
superior application
flexibility — enables
the capture of UHF RFID
tags, 1D, 2D and PDF417
symbologies as well as
images and signatures;
eliminates need for multiple
devices — and associated
costs; future proof —
built-in support for the
applications of tomorrow

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

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

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

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

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:

- Enables RFID price checking, new inventory commission, separated inventory identification (e.g. fitting rooms), and returns processing.
- While the DS9808-R continually reads RFID tags in the
 working field, built-in filtering prevents accidental
 multiple entries of the same tag. Associates will hear
 a single beep as the tag data is physically 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 parsing software allows the translation
 of the RFID EPC tag data to UPC bar code data on the
 fly, allowing retailers to implement RFID information
 into existing bar code-based inventory applications.
 As a result, 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 AT THE CHECKSTAND

The DS9808-R allows associates to instantly switch form factors and scanning modes. This extraordinary one-of-a-kind hybrid design marries a solid base with Motorola's award-winning handheld ergonomics, creating a scanner that delivers superior comfort and ease of use in handheld and hands-free 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 specific functionality to different positions — for example, the upper trigger could be dedicated to RFID tags, the lower trigger could activate the imager to read 1D or 2D bar codes, and both triggers could be activated to execute a third function (such as a combination of RFID and bar code scanning)..

FOUR FUNCTIONS IN ONE EASY TO MANAGE DEVICE DELIVER A RAPID RETURN ON INVESTMENT (ROI)

With the flexible DS9808-R, there is no need to purchase multiple devices to enable different types of data capture in your enterprise — no matter what applications you need now or in the future, the powerful comprehensive feature set will meet your needs. You enjoy the functionality of an RFID reader, 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, and compatibility with Remote Scanner Management (RSM) greatly simplifies configuration, deployment and day-to-day management of the devices.

ENTERPRISE DURABILITY AND WORLD-CLASS SUPPORT DELIVER MAXIMUM UPTIME — AND A LOW TOTAL COST OF OWNERSHIP (TCO)

The DS9808-R offers a new standard for bar code scanner reliability, providing the maximum uptime required in the demanding retail environment. The 4 ft./1.2 m drop to concrete drop specification ensures dependable performance — in spite of the inevitable everyday drops and bumps. In addition, Motorola's Service from the Start Advance Exchange Support with Comprehensive Coverage ensures the business continuity required in retail. This multi-year coverage plan provides next-business-day device replacement, even in the event internal or external components are damaged through accidental breakage. The result is an extraordinary lifecycle, extraordinary uptime — and a truly outstanding ROI.

SPECIFICATIONS CHART

Dimensions	8.5 in. (max) H x 3.5 in. W x 6 in. D				
	21.6 cm (max) H x 8.9 cm W x 15.2 cm D				
Weight	16.4 oz/465 g				
Voltage and Current	Nominal: 5V ±5% VDC @ 1.2 A				
Data Capture Options	1D/2D bar codes and RFID tags				
Color	Twilight Black				
PERFORMANCE CH	ARACTERISTICS				
DS9808-SR and DS980	8-LR Imager Mode				
Light Source	Aiming Pattern: 650nm laser diode Illumination: 630nm LED				
Imager Field of View	39° H x 25° V				
Roll/Pitch/Yaw	360°, ±65°, ±60°				
Swipe Speed	Programmable up to 100 in./254 cm per second (Horizontal Read Rate)				
Frame Rate	Up to 60 frames per second				
DS9808-LR Laser Scan	ner Mode				
Light Source	650nm LED				
Scan Angle	40° ±3° nominal				
SYMBOLOGY DECO	DE CAPABILITY				
10	UPC/EAN (UPCA/UPCE/UPCE1/EAN-8/ EAN-13/JAN-8/JAN-13 plus supplementals, ISBN (Bookland), ISSN, Coupon Code), Code 39 (Standard, Full ASCII, Trioptic), Code 128 (Standard, Full ASCII, UCC/EAN-128, ISBT-128 Concatenated), Code 93, Codabar/ NW7,Code 11 (Standard, Matrix 2 of 5), MSI Plessey, I 2 of 5 (Interleaved 2 of 5 / ITF, Discrete 2 of 5, IATA, Chinese 2 of 5), GS1 DataBar (Omnidirectional, Truncated, Stacked, Stacked Omnidirectional, Limited, Expanded, Expanded Stacked, Inverse), Basi 32 (Italian Pharmacode)				
PDF417 (and variants):	PDF417 (Standard, Macro), MicroPDF417 (Standard, Macro), Composite Codes (CC-A, CC-B, CC-C)				
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, Canadian Post (Postbar)				
Nominal Working Range (Handheld):	See chart on back				
Nominal Working	See chart on back				
Range (Hands-free):					

^{*}The RFID module is a future option for use with the DS9808-LR only and will not be available for all countries. Please contact your local Motorola representative regarding availability.

RFID					
Frequency	902 - 928 Mhz (US, Canada & Mexico); Other countries pending				
Tag Type	EPCglobal Class 1 Gen 2 (ISO 18000-6C)				
Read Range/RF Power	Adjustable from near contact up to 40 inches/1 m depending on tag sensitivity and orientation				
IMAGING CHARACT	TERISTICS				
Graphics Format Support	Images can be exported as Bitmap, JPEG or TIFF				
Image Transfer Speed	USB 2.0: Up to 12 Megabits/second RS-232: Up to 115 kb/second				
Image Transfer Time	Typical USB application is ~0.2 seconds v a compressed JPEG of 100kb				
Image Quality	120 DPI on a 4 x 6 in./10.2 x 15.2 cm document @ 6.5 in./16.5 cm				
USER ENVIRONMEN	IT				
Operating Temp.	32° to 104° F /0° to 40° C				
Humidity	5% to 95% RH (Non-Condensing)				
Drop Specification	Withstands multiple 4 ft./1.2 m drops to concrete				
Ambient Light Immunity	Incandescent — 150 ft. candles (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					
Interfaces Supported	USB, RS-232, RS-485* (Port 9B, Port 5B) (*Tag "write" commands are not supported via RS-485)				
REGULATORY					
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				
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/EE				
Regulatory Model Numbers	DS9808-RUS — US Version DS9808-RWW — Worldwide (Non-US) version				
WARRANTY					
the DS9808 is warrante	Motorola's hardware warranty statement, ed against defects in workmanship and f 3 years from the date of shipment. For				
the complete Motorola	hardware product warranty statement, prolasolutions.com/warranty				

Customer Services

PRODUCT AVAILABILITY

Supports RSM (Remote Scanner Management)

Lowers IT expenses and TCO by enabling remote management from a central location

Multiple on-board interfaces; universal cable compatible

Easy to install; future proof design easily connects to the hosts of today and tomorrow

Extra loud beeper

Audible in the loudest environments

Extra large LED indicator

Clearly visible from all scanning positions

Rubberized handle

Provides workers with a comfortable, sure grip

Recessed connector in the base

Minimizes the scanner footprint

Service from the Start Advance

Exchange Support

Currently available in the U.S., Canada and Mexico. Please contact your local Motorola representative regarding availability in your region.

NOMINAL WORKING RANGE (HANDHELD):

S9			

 $\begin{array}{lll} \mbox{Code } 39 - 5 \mbox{ mil:} & 0 - 5.0 \mbox{ in.} \mbox{ (}0 - 12.7 \mbox{ cm)} \\ \mbox{UPC/EAN} - 10 \mbox{ mil } \mbox{(}80\%\mbox{):} & 0 - 13.5 \mbox{ in.} \mbox{ (}0 - 34.3 \mbox{ cm)} \\ \mbox{UPC/EAN} - 13 \mbox{ mil } \mbox{(}100\%\mbox{):} & 0 - 18 \mbox{ in.} \mbox{ (}0 - 45.7 \mbox{ cm)} \\ \end{array}$

DS9808-SR

 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-LR/DS9808-SR

PDF417 - 6.6 mil: 0 - 5.0 in. (0 - 12.7 cm) Datamatrix - 10 mil: 0 - 6.0 in. (0 - 15.2 cm)

NOMINAL WORKING RANGE (HANDS-FREE):

DS9808-LR/DS9808-SR

Note: The decode range in hands-free mode is programmable and can be limited to 6.5 in. (16.5 cm) for UPC/EAN – 13 mil bar codes, if desired.

ONE MULTI-FUNCTION SCANNER...MANY USES

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

RETAIL

- Scanning items for purchase at the POS
- 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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