ZEBRA MC9190-Z HANDHELD RFID READER

RUGGED, LONG RANGE RFID READER FOR INDUSTRIAL ENVIRONMENTS

LONG RANGE, HIGH PERFORMANCE SAVES TIME AND MONEY
To put more product into the hands of your customers – and put more profit into your pockets – you need to know what you have and where to find it. On the dock or in the storeroom, the MC9190-Z Handheld RFID Reader is designed to make that job faster and easier.

The MC9190-Z is Zebra's new best-in-class standard for handheld RFID readers. With its high RF sensitivity that provides for greater accuracy, higher throughput and longer reads, the MC9190-Z reaches further to bring reliable data about your products right to your fingertips. Inventory counts can be accomplished more often, more quickly and more accurately and, unlike scanning with bar codes, without line of sight. Then, armed with more complete information, you can better locate and track assets and inventory, and manage your stock levels to avoid running out of product or carrying expensive excess inventory.

RUGGED AND READY TO WORK
The MC9190-Z is sealed to meet IP64 standards so you can use it even in dust or rain. A tough, non-glare LCD screen allows for optimal reading in bright sunlight and worry-free glass protection in rugged use. The MC9190-Z’s specially designed corner bumpers enable it to handle repeated drops to a concrete floor with a 6ft./1.8m drop spec. We built it to work for a living, even in your toughest environment.

MAKE A SMART CHOICE
The MC9190-Z joins the broadest, most comprehensive portfolio of business and industrial fixed, mobile, handheld and hands-free RFID readers available today. Simply put, Zebra RFID devices are being used in more applications, more industries and more countries. To you, that means extensive experience you can tap to solve your unique challenges, higher confidence that we can deliver what you expect and greater value built in every device we make. It all adds up to make the MC9190-Z an easy choice.

For more information on the Zebra MC9190-Z RFID reader, please visit us on the web at www.zebra.com/mc9190z or access our global directory at www.zebra.com/contact.

ZEBRA MC9190-Z SPECIFICATIONS

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<th>PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS</th>
<th>WIRELESS DATA COMMUNICATIONS</th>
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<td>WLAN: 802.11 a/b/g</td>
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</table>

GOVERNMENT GRADE ENCRYPTED WIRELESS SECURITY
Make sure only authorized users
Dimensions: 10.75 in. L x 4.7 in. W x 7.7 in. H. 27.3 cm L x 11.9 cm W x 19.5 cm H

Weight: 34.35 oz / 2.147 lbs (including battery). 973.8 gr / .986 kg (including battery)

Keyboard: 28, 43 and 53-key options

Display: 3.7 in. VGA color with digitizer and backlight

Power: Removable, rechargeable 7.2 volt Lithium Ion 2200 mAh battery pack, 15.8 watt hours

CPU: Marvell PXA320 processor at 806 MHz

Operating System: Microsoft Windows Mobile 6.5

Memory (RAM/ROM): 256 MB/1 GB

Expansion: Up to 32 GB SD/MMC card

Application Development: PSDK, DCP and SMDK available through Zebra Developer Zone Web site


PERIPHERALS AND ACCESSORIES

Cradles: Single-slot serial/USB, 4-slot Ethernet, 4-slot charge only

Printers: Supports extensive line of Zebra approved printers and cables

Charger: 4-Slot universal battery charger

Other Accessories: Cable adapter module; snap-on magnetic stripe reader; modem module; full set of cables; Zebra approved CAC Reader for government applications

PERFORMANCE CHARACTERISTICS

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REGULATORY

General: Approved for use in the US, Canada, Europe, Asia/Pacific, Latin America, Middle East³

Electrical Safety: Certified to UL60950-1, CSA C22.2 No. 60950-1, IEC 60950-1, EN 60950-1

EMI/RFI: USA: FCC Part 15 Canada: ICES 003 Class B EU: EN 301 489-3, EN 301 489-1, EN 301 489-17, EN 302-208, EN55022 Class B, EN55024

Laser Safety: IEC Class2/FDA Class II in accordance with IEC60825-1/EN60825-1, 21 CFR1040.10


WARRANTY

The MC9190-Z RFID is warranted against defects in any material or workmanship for a period of three years from the date of purchase. This warranty is subject to the terms and conditions set forth in the Zebra Limited Warranty. For more information, please visit zebrainfo.com/warranty.

Wired-line grade security without impacting wireless performance: native FIPS 140-2 Level 1 certification; support for all the latest encryption and authentication protocols; compatibility with Zebra’s Mobile Security Suite for device-level protection and compatibility with Zebra’s Mobile Virtual Private Networks (MVPNs)

Common access card (CAC) capable

Optional accessories to support authentication for government applications
### Incandescent, Mercury Vapor, Sodium Vapor, LED: 450 Ft Candles (4,844 Lux)
Sunlight: 8000 Ft Candles (86,111 Lux)

The MC9190-Z RFID is warranted against defects in workmanship and materials for a period of one year (12 months) from date of shipment, provided the product remains unmodified and is operated under normal and proper conditions.

<table>
<thead>
<tr>
<th><strong>RFID</strong></th>
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<tbody>
<tr>
<td><strong>Standards supported:</strong></td>
<td>EPC Gen 2 DRM (DRM compliant up to 0.5w)</td>
</tr>
<tr>
<td><strong>Nominal read range:</strong></td>
<td>up to 30 ft. / up to 9.14 m</td>
</tr>
<tr>
<td><strong>Nominal write range:</strong></td>
<td>up to 4 ft. / up to 1.22 m</td>
</tr>
<tr>
<td><strong>Field:</strong></td>
<td>70-degree cone (approx.) measured from nose of device</td>
</tr>
<tr>
<td><strong>Antenna:</strong></td>
<td>Integrated, linearly polarized</td>
</tr>
<tr>
<td><strong>Frequency Range:</strong></td>
<td>EU: 865-868MHz; US: 902-928MHz</td>
</tr>
<tr>
<td><strong>Output Power:</strong></td>
<td>EU: 2 Watt ERP; US: 3 Watt EIRP</td>
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### RECOMMENDED SERVICES

**Customer Services:** Service from the Start – Bronze with Comprehensive Coverage

1: LED lighting with high AC ripple content can impact scanning performance.

2: Actual read/write range is dependent upon a number of factors, including the specific tag used, nature of the items tagged, and presence or absence of radio interference.

3: NOTE: Model numbers for Regulatory Certification are : MC919ZWR: North America, Asia/Pacific, Latin America ; MC919ZEU: Europe, Middle East, India; MC919ZCN: China

NOTICE: Repairs of this product may require the use of Zebra proprietary parts (and/or Zebra proprietary information). Zebra will sell these parts (and provide this proprietary information) only to end-user customers for self-service. Applicable in the U.S. For all other countries, please contact your Zebra account manager or the local Zebra Customer Service representative in your area for further details.