



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 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

FEATURES

Multi-modal data capture

Integrated RFID and barcode in one rugged device gives you lower total cost of ownership.

Greater efficiency

Reliable, long-range RFID performance allows more frequent and more accurate inventory-count operation to better manage on-the-floor, backroom and distribution inventory ' reduce out-of-stock and excess inventory carrying costs.

Maximum rugged design

Can withstand a 6 ft./1.8 m drop to concrete, 2000 one-meter tumbles and has an IP64 sealing to help ensure reliable operation in spite of everyday drops, bumps and exposure to dust and liquids 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 <u>www.zebra.com/mc9190z</u>or access our global directory at <u>www.zebra.com/contact</u>.

Superior ergonomic design

The most ergonomic RFID handheld reader in its class, the MC9190-Z is easy to handle, so staff can use the product longer with less fatigue.

Readable in any environment

The MC9190-Z features a large 3.7' VGA colored touch-screen with reduced glare for easier use indoors and outdoors.

GOVERNMENT GRADE ENCRYPTED WIRELESS SECURITY

Make sure only authorized users access your devices, your data and your network with Zebra MAX Secure

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

ZEBRA MC9190-Z SPECIFICATIONS

| CHARACIERISI | PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS | | 802.11 a/b/g |
|-----------------------------|--|-----------------------------|--|
| 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 | WLAN: | - |
| | | Output Power: | 100 mW U.S. and international |
| | | Data Rate: | 802.11a: up to 54 Mbps; 802.11b: up to 11 Mbps; 802.11g: up to 54 Mbps |
| Weight: | 34.35 oz / 2.147 lbs (including battery) 973.8 gr / .986 kg (including battery) | | |
| | | Antenna: | Internal |
| Keyboard: | 28, 43 and 53-key options | Frequency Range: | All country dependent: 802.11a - 5 GHz; 802.11b ' 2.4 GHz; 802.11g ' 2.4 GHz |
| 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 | Bluetooth: | Bluetooth Version 2.1 with EDR |
| | | WLAN Security: | WPA2 Enterprise, 802.1x; EAP-TLS; TTLS (CHAP, MS-CHAP, MS-CHAPv2, |
| PERFORMANCE | CHARACTERISTICS | | PAP or MD5); PEAP (TLS, MSCHAPv2, EAP-GTC); |
| CPU: | Marvell PXA320 processor at 806 MHz | LEAP, EAP-FAST (TLS, | LEAP, EAP-FAST (TLS, MS-CHAPv2, EAP-GTC), |
| Operating System: | Microsoft Windows Mobile 6.5 | | |
| Memory (RAM/ ROM): | 256 MB/1 GB | PERIPHERALS AND ACCESSORIES | |
| Expansion: | Up to 32 GB SD/MMC card | Cradles: | Single-slot serial/USB, 4-slot Ethernet, 4-slot charge only |
| Application Development: | PSDK, DCP and SMDK available through Zebra Developer Zone Web site | Printers: | Supports extensive line of Zebra approved printers and cables |
| Scan Engine Options: | SE960: 1-D Laser, SE1524-ER: 1-D Extended Range, SE4500: 2-D Imager SE4500-HD: 1-D/2-D DPM | Charger: | 4-Slot universal battery charger |
| | | Accessories: sn re | Cable adapter module; snap-on magnetic stripe reader; modem module; full set of cables; Zebra |
| USER ENVIRONMENT | | | approved CAC Reader for |
| Operating Temp. : | -4° F to 122° F/-20° C to 50° C | - | government applications |
| Charging Temp.: | 32° F to 104° F/0° C to 40° C | REGULATORY | |
| Storage Temp.: | -40° F to 158° F/-40° C to 70 ° C | General: | Approved for use in the US, Canada, Europe, Asia/Pacifi |
| Humidity: | 5% to 95% non-condensing | | , Latin America, Middle East |
| Drop Spec: | Multiple drops to concrete: 6 ft./1.8 m across the operating temperature range | Electrical Safety: | Certified to UL60950-1, CSA C22.2 No. 60950-1, IEC 60950-1, EN 60950-1 |
| | | | |

| | room temperature (4,000 hits) | EU: EN 301 489-3, EN 301 489-1, EN 301 489-17, EN 303 208 EN55022 Class B | |
|--------------------------------------|--|---|--|
| Environmental Sealing: | IP64 (electronic enclosure, display and keypad) | | 302-208, EN55022 Class B, EN55024 |
| Electrostatic Discharge (ESD): | +/-15kVdc air discharge; +/- 8kVdc direct discharge; +/- 8kVdc indirect discharge | ac | IEC Class2/FDA Class II in accordance with IEC60825-1 /EN60825-1, 21CFR1040.10 |
| MIL-STD 810F: | Meets and exceeds applicable MIL-STD 810F for drop, tumble and sealing | RF Hazard and Human ExposureUS ' FCC OET Bulletin 65 Supplement 'C' Canada ' RSS-102 EU ' EN 62311, EN62479, EN 50364 | Supplement 'C' Canada ' RSS-102 |
| Ambient Lighting Tolerance: | Tolerant to typical artificial indoor and natural outdoor (direct sunlight) lighting conditions. Fluorescent, Incandescent, Mercury Vapor, Sodium Vapor, LED1: 450 Ft Candles (4,844 Lux) Sunlight: 8000 Ft Candles (86,111 Lux) | | |
| | | WARRANTY | |
| | | 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. | |
| RFID | | | |
| Standards | EPC Gen 2 DRM (DRM | RECOMMENDED SERVICES | |
| supported: | compliant up to 0.5w) | Customer Services: Service from the Start ' Bronze with Comprehensive Coverage | |
| Nominal read range ² : | up to 30 ft. /up to 9.14 m | | |
| Nominal write range ² : | up to 4 ft./ up to 1.22 m | 1 LED lighting with high AC ripple content can impact scanning percent of the second state of the second | |
| Field: | 70-degree cone (approx.) measured from nose of device | | |
| Antenna: | Integrated, linearly polarized | - | |
| Frequency Range: | EU: 865-868MHz; US: 902- 928MHz | - | |
| Output Power: | EU: 2 Watt ERP; US: 3 Watt EIRP | - | |



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