

MOTOROLA RFD5500移动数据终端

使用说明书（英）



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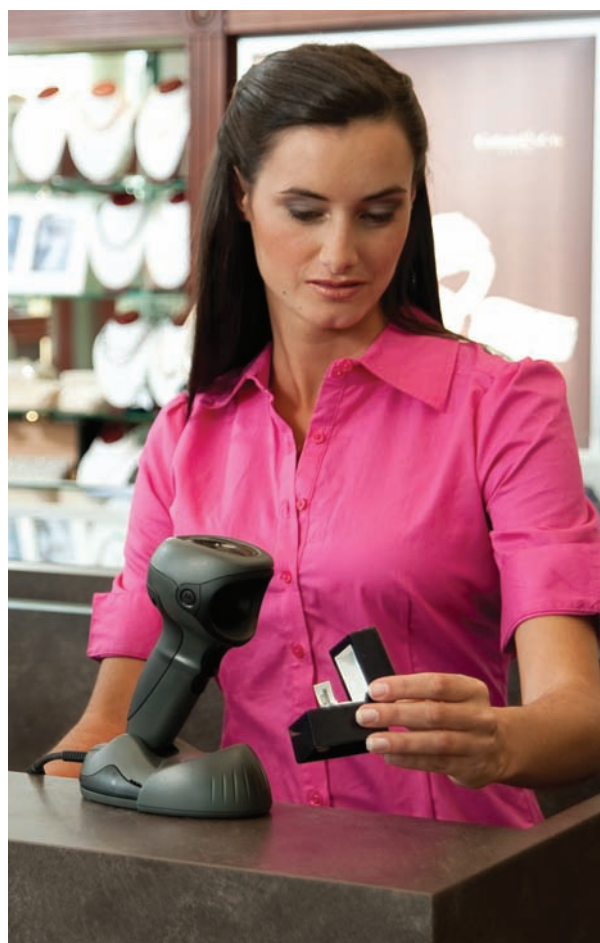
MOTOROLA RFID AT-A-GLANCE



**MAXIMIZE THE BENEFITS OF RFID WITH MOTOROLA'S
COMPLETE RFID PRODUCT PORTFOLIO**



**GET THE MOST
RETURN ON
YOUR RFID
INVESTMENTS...
WITH MOTOROLA
RFID SOLUTIONS.**



EVERYTHING YOU NEED TO GET THE MOST OUT OF RFID IN YOUR BUSINESS

When you choose Motorola for your RFID solution, you get the peace of mind that comes with more than 85 years of industry leadership, the broadest RFID portfolio, the most tested and proven RFID readers, plus performance that consistently sets the industry benchmark. In addition, our RFID solutions complement Motorola's broader enterprise mobility portfolio of radio communication devices, wireless infrastructure, data capture and mobile computing products. Now, you can deliver the information each and every one of your workers needs to automate manual processes, improve efficiency and increase task accuracy. The result? Your employees will work more efficiently and be more productive. You'll get more value out of your RFID data. And you'll enjoy a faster return on your RFID investment.

Motorola gives you:

THE INDUSTRY'S BROADEST PORTFOLIO OF RFID READERS

Motorola's RFID products help companies and organizations increase visibility through automation and allow them to more efficiently manage their operations. And, no matter where you want to deploy RFID, we have a reader for your application. Only Motorola offers a business and industrial line of fixed, handheld and hands-free RFID readers that can meet the needs of most any environment — from the carpeted office space to the retail sales floor, the warehouse, the production line and even the dock doors. Our fixed readers completely automate the capture of inventory information. Our handheld readers allow workers to keep accurate inventories and locate specific assets quickly and easily. While our mobile and hands-free readers allow for dynamic and point of sale read points, enabling increased visibility throughout the enterprise.

TESTED AND FIELD PROVEN BEST-IN-CLASS SOLUTIONS





Motorola has more fixed, handheld and portal RFID systems installed than any other RFID provider, so you get the peace of mind that comes from choosing




RFID products that are well-tested in practically every industry — including warehousing, retail, transportation and logistics, manufacturing, government, aviation, energy and utilities. And when you choose Motorola, you get access to our industry-leading, world-class partner network so you can get your RFID solution up and running rapidly, reducing deployment time and cost and allowing you to begin reaping the benefits of RFID faster, for a faster return on investment.

A LONG HISTORY OF INNOVATIVE TECHNOLOGY, INDUSTRY FIRSTS AND A WEALTH OF REAL-WORLD EXPERIENCE IN YOUR INDUSTRY

When you choose Motorola, you get leading edge RFID technology. We hold over 300 RFID technology patents that have allowed us to deliver many industry firsts — including the first EPC RFID handheld reader, the first EPC RFID portal system and the first EPC RFID mobile reader. And when it comes to experience, Motorola is unsurpassed. We've spent decades deploying some of the world's largest and most successful RFID implementations in some of the world's largest companies.

MOTOROLA'S FAMILY OF RFID READERS





Product	Description	Geographic Availability*	Operating System	CPU	Memory	Expansion Slot
HANDHELD AND HANDS-FREE RFID READERS						
MC3190-Z 	Designed specifically for customer-facing and business environments, the MC3190-Z starts with Motorola signature rugged design and high performance, then adds the ergonomics required for all day comfort and ease of use. Our advanced, high efficiency RFID reader engine delivers faster read rates and higher throughput. The groundbreaking antenna combines the benefits of linear and circular polarization for superior read range and coverage. And the MC3190-Z increases application versatility with the ability to read RFID tags, as well as capture 1D and 2D bar codes.	<ul style="list-style-type: none"> • NA • LATAM • EMEA • APAC 	Microsoft® Windows® Mobile 6.5	Marvell PXA320 @ 624 MHz	256MB RAM; 1GB Flash	N/A
MC9190-Z 	The MC9190-Z is Motorola'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.	<ul style="list-style-type: none"> • NA • LATAM • EMEA • APAC 	Microsoft® Windows® Mobile 6.5	Marvell PXA320 processor @ 806 MHz	256MB RAM; 1 GB ROM	Up to 32 GB SD/MMC card
DS9808-R 	The DS9808-R hybrid presentation imager is the first combination 1D/2D bar code scanner and RFID reader for hands-free and handheld data capture. In addition to UHF RFID tags, the DS9808-R delivers record swipe speeds for 1D and 2D bar codes, as well as the ability to capture images and signatures. It can also capture and parse the PDF417 bar codes on U.S. driver's licenses and other AAMVA compliant ID cards for auto-population.	<ul style="list-style-type: none"> • NA • LATAM (select countries) 	N/A	N/A	N/A	N/A
HANDHELD READER ACCESSORY						
RFD5500 	Easily add UHF RFID functionality to Motorola Solutions MC55, MC67 and MC67 mobile computers with the RFD5500 UHF RFID Sled. The flexible design is at home in the storefront, carpeted business areas and out in the field, allowing enterprises to deploy UHF RFID wherever it will streamline operations. The lightweight rugged design and well-balanced, gun-style grip bring comfort to the most read-intensive applications. The advanced, high efficiency Motorola RFID reader engine delivers fast read rates, high throughput and improved productivity. And Motorola's patented omnidirectional antenna combines the advantages of linear and circular polarized antennas, delivering a superior read range and coverage area, as well as easy tag capture — there is never a need to precisely align reader and tag.	<ul style="list-style-type: none"> • NA • LATAM • EMEA • APAC 	N/A	N/A	N/A	N/A




Product	Description	Geographic Availability*	Read Points	External Interfaces	Network
FIXED RFID READERS					
FX7400 	Easy to deploy, use, and manage, the FX7400 fixed UHF RFID reader is ideally suited for indoor, space-constrained, customer-facing environments. This high performance reader packs best-in-class RFID features and functionality into a sleek, attractive form factor that makes RFID cost-effective for business-class applications such as item-level inventory management, IT asset management and more. The plenum rating increases deployment flexibility — this reader can be safely mounted above a drop ceiling or below a raised floor, virtually invisible to customers and employees. Power over Ethernet (POE) eliminates the need for costly power drops, while other advanced features such as auto-discovery and remote configuration simplify management and offer easy integration into your existing technology environment.	<ul style="list-style-type: none"> • NA • LATAM • EMEA • APAC 	4 mono-static ports	2 inputs, 2 outputs, optically isolated (Terminal Block); USB Client — USB Type B	10/100 BaseT Ethernet (RJ45) with PoE support
FX7500 	The sleek and attractive FX7500 offers a low profile, compact footprint that is at home in nearly any business environment. The new RFID radio is designed from the ground up to deliver faster and more accurate read rates, as well as more consistent performance — even in challenging environments. In addition, since the radio is software-based, you get superior future proofing — as RFID continues to evolve, the radio can be easily upgraded to support new features. The Linux-based network architecture provides the tools and open-standard interfaces required for fast and easy deployment with RFID and back-end applications. And installation couldn't be easier — just hang the supplies bracket and snap the FX7500 in place. The result? A fixed RFID reader that sets a new performance standard at a lower cost per read point.	<ul style="list-style-type: none"> • NA • LATAM • EMEA • APAC 	2 or 4 mono-static ports	2 inputs, 2 outputs, optically isolated (Terminal Block); USB Client (USB Type B), USB Host Port (Type A)	10/100 BaseT Ethernet (RJ45) with PoE support
FX9500 	The rugged Motorola FX9500 Fixed UHF RFID Reader is built to perform in today's toughest industrial environments, and ready to meet tomorrow's most advanced challenges. High read performance lets you quickly move and track high volumes of densely tagged cases, pallets and items, with greater accuracy, even in RF-challenging environments and with RF-challenging materials. Longer read ranges, an IP53 sealing rating and an extremely durable design make the FX9500 ideal for large distribution center and yard management applications. Add options for 4- or 8-port configurations and mono-static/bi-static modes, and the FX9500 delivers complete control for optimizing advanced applications.	<ul style="list-style-type: none"> • NA • LATAM • EMEA • APAC 	FX9500-4: 4 mono-static or 2 bi-static ports FX9500-8: 8 mono-static or 4 bi-static ports	4 inputs, 4 outputs, optically isolated (Terminal Block); USB Host & Client (Type A & B); Serial (DB9)	10/100 BaseT Ethernet; RJ45

*Check SolutionBuilder for country-specific availability






APAC = Asia Pacific; EMEA = Europe, Middle East, Africa; LATAM = Latin America; NA = North America

MOTOROLA'S FAMILY OF RFID READERS (continued from page 4)



Product	Display	Keyboard	Sealing	Drop Spec	Tumble Tested	Data Capture	Wireless	Warranty	Recommended Service
HANDHELD AND HANDS-FREE RFID READERS									
MC3190-Z 	3 in. QVGA color	48-key alphanumeric	IP54; meets and exceeds MIL-STD 810F	4 ft./1.2 m across the operating temperature range	500 1.64 ft./0.5 m tumbles at room temperature (1,000 hits)	Gen 2 RFID tags, omnidirectional reading of 1D and 2D bar codes	802.11a/b/g; WPAN Bluetooth® (regional dependent)	1 year	Service from the Start with Comprehensive Coverage
MC9190-Z 	3.7 in. VGA color with digitizer and backlight	28, 43 and 53-key options	IP64 (electronic enclosure, display and keypad)	Multiple drops to concrete: 6 ft./1.8 m across the operating temperature range	2,000 one-meter tumbles at room temperature (4,000 hits)	EPC Gen 2 DRM (DRM compliant up to 0.5w)	802.11a/b/g; WPAN Bluetooth® (regional dependent)	1 year	Service from the Start – Bronze with Comprehensive Coverage
DS9808-R 	N/A	N/A	N/A	4 ft./1.2 m drops to concrete	N/A	Gen 2 RFID tags; 1D/2D bar codes; images and signatures	N/A	3 years	Service from the Start Advance Exchange Support
HANDHELD READER ACCESSORY									
RFD5500 	N/A	N/A	N/A	4.1 ft./1.2 m drop to concrete across the operating temperature range	250 1.64 ft./0.5 m tumbles (500 drops) at room temperature	UHF RFID	N/A	1 year	

Product	Frequency	Tag Protocol	Host Interface Protocols	Management Protocols	Rugged Specs.	Operating Temp.	Operating System	Memory	Warranty	Recommended Service
FIXED RFID READERS										
FX7400 	902 – 928 MHz, 865 – 868 MHz Other global frequencies as regionally defined	EPC Gen 2 (Dense Reader Mode)	LLRP + RM, C, Java API	RM 1.0.1 (with XML over HTTP/HTTPS and SNMP binding)	Non-sealed, Durable	-4° F to +131° F -20° C to +55° C	Microsoft® Windows® CE 5.0 (Core)	64MB Flash; 64MB DRAM	1 year	RFID Design and Deployment Services; Service from the Start On Site System Support
FX7500 	Global reader: 902 – 928 MHz, 865 – 868 MHz US (only) reader: 902 – 928 MHz	EPC UHF Class 1 Gen 2 (Dense Reader Mode)	LLRP	RM 1.0.1 (with XML over HTTP/HTTPS and SNMP binding); RDMP	Non-sealed Durable Shock and vibration	-4° to +131° F/ -20° to +55° C	Linux	512MB Flash; 256MB DRAM	1 year	RFID Design and Deployment Services; Service from the Start On Site System Support
FX9500 	902 – 928 MHz, 865 – 868 MHz Other global frequencies as regionally defined	EPC Gen 2 (Dense Reader Mode)	LLRP + RM	RM 1.0.1 (with XML over HTTP/HTTPS and SNMP binding)	IP53	-4° to +131° F/ -20° to +55° C	Linux	128MB Flash; 128MB DRAM	1 year	RFID Design and Deployment Services; Service from the Start Advance Exchange Support

MOTOROLA'S FAMILY OF RFID ANTENNAS

	Description	Type/ Gain	Frequency Range	Operating Temp.	Sealing	Environmental
RFID ANTENNAS						
AN200 	<p>The general purpose AN200 RFID antenna can be used reliably in a wide range of indoor and outdoor environments, from the warehouse to the production line to the docking zone. Its rugged design withstands a range of environmental conditions from extreme heat and cold to moisture and vibration. The AN200 Antenna can be used in standard RFID applications at power levels of up to 1 watt and in customized applications at power levels up to 20 watts.</p>	<p>General purpose, indoor/ outdoor RFID antenna</p> <p>6 dBi</p>	<p>900 – 928 MHz</p> <p>(Will perform reasonably well in EU frequency in most applications)</p>	<p>-40° F to 149° F -40° C to 65° C</p>	Supports weep holes	Cold, heat, temperature, shock, humidity, rain, salt fog, random vibration
AN440 	<p>The rugged general purpose AN440 high capacity antenna is ideal for the largest environments with high product density. The dual-element antenna can be used as two separate mono-static antennas in one package, providing the wide read field and fast read rates required to capture the highest volume of tags. The simple white housing is at home in both customer-facing and industrial settings. And since the AN440 is easy to mount on ceilings and walls, you can easily achieve superior coverage in challenging areas such as warehouse doorways, dock platforms and multi-level stockroom shelves.</p>	<p>High-performance dual RFID antenna, ideal for bi-static operation</p> <p>6 dBi</p>	<p>900 – 928 MHz</p> <p>(Will perform reasonably well in EU frequency in most applications)</p>	<p>-22° to 158° F -30° to 70° C</p>	IP67	Cold, heat, temperature, shock, humidity, rain, salt fog, random vibration
AN480 	<p>The AN480 single port antenna offers the flexibility and performance required to meet the needs of enterprises around the world. A perfect complement to Motorola's FX7400 RFID Reader, the AN480 can be installed throughout the enterprise in manufacturing and warehouse floor environments or any dock door receiving application. A low axial ratio delivers a more uniform gain for superior performance. And as with all Motorola antennas, the AN480 uses our standard mounting bracket — so mounting the antenna for the first time or upgrading an existing Motorola antenna with the AN480 is fast and easy.</p>	<p>High-performance indoor wide band RFID antenna</p> <p>6 dBi</p>	865 – 956 MHz	<p>-40° F to 149° F -40° C to 65° C</p>	IP54	Cold, heat, temperature, shock, humidity, rain, salt fog, random vibration
AN610 	<p>The ultra-low profile small AN610 Slimline antenna offers the "picture-frame" discreet aesthetics needed in smaller workspaces, such as boutique apparel shops and bookstores. This easy-to-mount space-saving and stylish antenna is discreet enough for businesses with the most discerning customers, yet rugged enough to handle everyday life wherever you need an RFID reader: in a doorway, on an end-cap display, on shelves, above the counter as an RFID pad, on the wall.</p>	<p>Flat panel, slim line, ultra-low profile "picture-frame" aesthetic antenna</p> <p>1.0 dBiL</p>	<p>EU Version 864 – 868 MHz</p> <p>US Version 902 – 928 MHz</p>	<p>-22° F to +149° F -30° C to +65° C</p>	N/A	N/A
AN620 	<p>The ultra-low profile AN620 offers the same "picture-frame" discreet aesthetics as the AN610 in a slightly larger form factor that offers an increased read range. The AN620 is designed for larger customer-facing sales spaces — such as do-it-yourself or large department stores — where the increase in performance will ensure accurate reading of many items, while helping to minimize the volume of readers required. The AN620 offers the same rugged specifications as the AN610, and can be installed virtually anywhere in your customer-facing areas — from doorways and walls to shelves, end-cap displays, at the point-of-sale, under the counter or even above the counter as a RFID pad.</p>	<p>Flat panel, slim line, ultra-low profile "picture-frame" aesthetic antenna</p> <p>4.0 dBiL</p>	<p>864 – 868 MHz (EU Version) 902 – 928 MHz (US Version)</p>	<p>-22° F to +149° F -30° C to +65° C</p>	N/A	N/A

MOTOROLA'S FAMILY OF RFID ANTENNAS (continued from page 6)

	Description	Type/ Gain	Frequency Range	Operating Temp.	Sealing	Environmental
RFID ANTENNAS						
AN710 	The compact AN710 RFID antenna offers all the features required for carpeted and customer-facing environments. A low gain antenna (3.5 dBi), the AN710 is extremely compact and offers the sleek aesthetics needed for discreet installation in the most space-constrained spaces — for example, under the point of sale (POS) counter. And an integrated mounting bracket enables easy installation in minutes.	Compact general purpose indoor antenna 3.5 dBi	<i>US and Canada:</i> 900 – 928 MHz <i>Europe:</i> 865 – 868 MHz	-22° F to 158° F -30° C to 70° C	N/A	N/A
AN720 	Similar to the AN710, the AN720 RFID antenna features a compact form factor and discreet aesthetics for customer-facing environments. Together, the two models provide coverage wherever you need it — the AN710 on the sales floor and the AN720 at the dock door or outdoor shopping areas. The device is built for rough environments — it's impact and vibration resistant, and can withstand exposure to rain, snow and extreme temperatures.	Compact rugged indoor-outdoor antenna 3.5 dBi	<i>US and Canada:</i> 900 – 928 MHz <i>Europe:</i> 865 – 868 MHz	-22° F to 158° F -30° C to 70° C	IP67	Cold, heat, temperature, shock, humidity, rain, salt fog, random vibration

RFID Antenna Notices

* All antennas can be used world-wide. The AN400 and AN200 will perform reasonably well in the EU frequency in most applications.

The antenna frequency specification and label is a characteristic trait of the antenna's peak frequency response. The RFID reader, when professionally installed and selected for a country of operation, dictates the actual frequency of transmission/reception to ensure regulatory compliance for operation in a designated country. The actual frequency specification of the antenna is not material to regulatory compliance.

Let Motorola Solutions help you make
the most out of RFID in your business.
For more information, please visit
WWW.MOTOROLASOLUTIONS.COM/RFID