

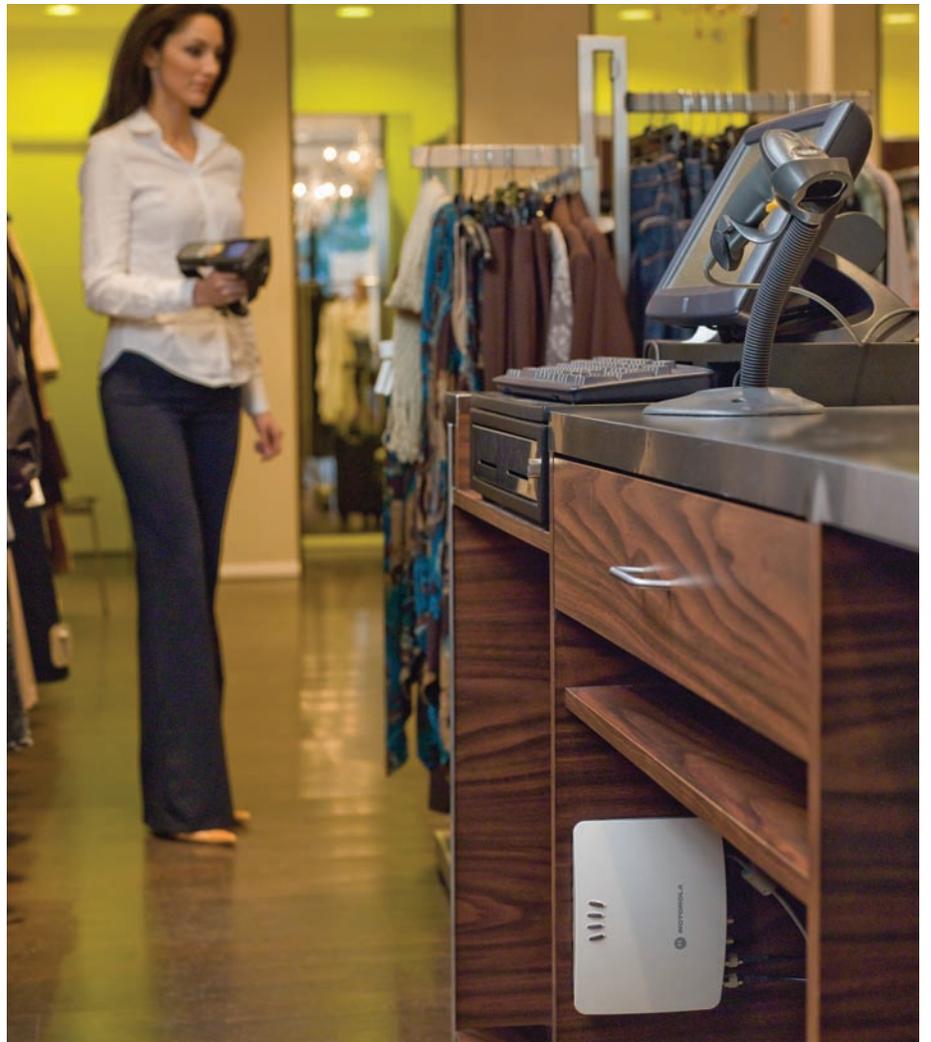
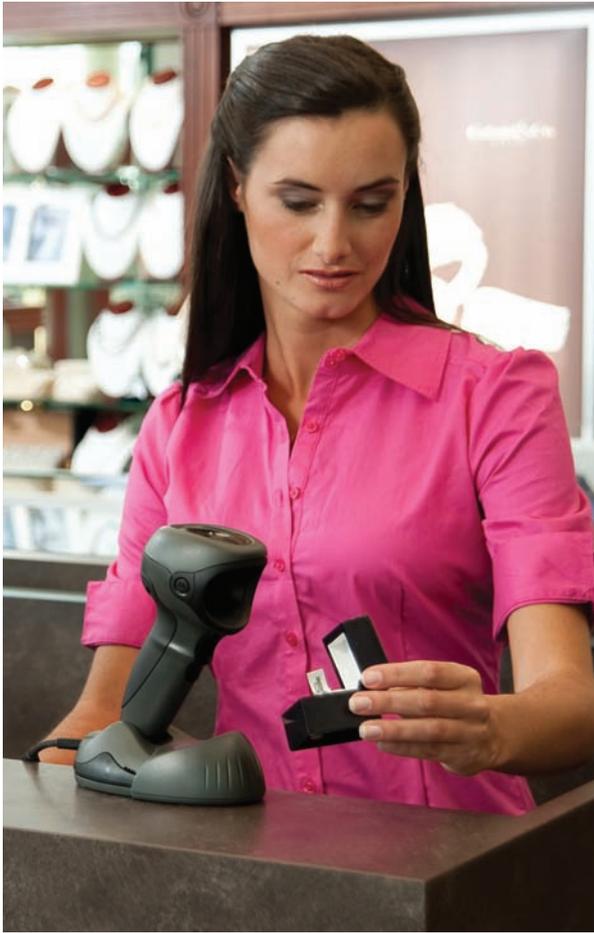
MOTOROLA RFID AT-A-GLANCE



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 80 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 | | | | | | |
|  <p>MC3190-Z</p> | 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 |
|  <p>MC9190-Z</p> | 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 |
|  <p>DS9808-R</p> | 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 |

| Product | Description | Geographic Availability* | Read Points | External Interfaces | Network |
|--|---|---|--|--|---|
| FIXED RFID READERS | | | | | |
|  <p>FX7400</p> | Easy to deploy, use, and manage, the FX7400 fixed 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 |
|  <p>FX9500</p> | The rugged Motorola FX9500 Fixed 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 |

| Product | Frequency | Tag Protocol | Host Interface Protocols | Management Protocols | Rugged Specs. | Operating Temp. | Operating System | Memory | Warranty | Recommended Service |
|--|--|-------------------------------|--------------------------|--|---------------------|--------------------------------------|-----------------------------------|-------------------------|----------|--|
| FIXED RFID READERS | | | | | | | | | | |
| FX7400  | 902 MHz-928 MHz, 865 MHz-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 |
| FX9500  | 902 MHz-928 MHz, 865 MHz-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 |
| AN400  | <p>The AN400 dual-element antenna brings a new level of operational efficiency to areas previously too large to accommodate RFID technology. The single housing packaging makes it cost-effective and ideally suited for bi-static operation. These high-performance area antennas are easy to mount on ceilings and walls to create superior read zones around shelves, doorways and dock doors — anywhere boxes and pallets are moving into and out of a facility.</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>32° F to 122° F 0° C to 50° C</p> | Supports weep holes | 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>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 |
| 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  | <p>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.</p> | <p>Compact general purpose indoor antenna</p> <p>3.5 dBi</p> | <p><i>US and Canada:</i> 900-928 MHz <i>Europe:</i> 865-868 MHz</p> | <p>-22° F to 158° F -30° C to 70° C</p> | N/A | N/A |
| AN720  | <p>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.</p> | <p>Compact rugged indoor-outdoor antenna</p> <p>3.5 dBi</p> | <p><i>US and Canada:</i> 900-928 MHz <i>Europe:</i> 865-868 MHz</p> | <p>-22° F to 158° F -30° C to 70° C</p> | IP67 | <p>Cold, heat, temperature, shock, humidity, rain, salt fog, random vibration</p> |

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**

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