



**ZEBRA**

# RFID At-a-Glance



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



# Everything you need to get the most out of your RFID investment — all from the leader in RFID

RFID solutions give you the real-time asset visibility you need to streamline operations, maximize asset utilization and error-proof asset-related data. Why choose Zebra for your RFID solution? Only Zebra provides end-to-end solution simplicity, with everything you need to implement RFID in your organization — from well-tested industry-leading infrastructure to the expertise you need to maximize the benefits of RFID in your enterprise. We offer:

## **Printers for every tag need**

Every RFID solution starts with RFID tags. With our RFID printers, you can create whatever you need, from small item-level hang tags to case and pallet labels to photographic quality RFID-enabled identity cards. And with our advanced proprietary technologies, you can be sure that every tag you print is encoded with the right data.

## **RFID readers for every application**

Whether you need handheld, handsfree or fixed RFID readers for industrial spaces or customer facing areas, we've got a reader that is just right for your environment.

## **Antennas to maximize RFID performance**

With our complete portfolio of antennas, you can boost the performance of our RFID readers from the point-of-sale to the dock door.

## **Largest selection of stock RFID labels, tags and cards**

Zebra offers the widest selection of in-stock RFID labels, tags and cards with options for general purpose, advanced and specialty use applications, in a variety of sizes and materials, using inlays from leading manufacturers.

## **Field proven industry-leading technology**

Zebra 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. And with over 300 RFID technology patents that have allowed us to deliver many industry firsts, you can count on best-in-class advanced technologies that will maximize the performance of your RFID solution.

## **The expertise you need to maximize the benefits of RFID in your enterprise**

We've spent decades deploying some of the world's largest and most successful RFID implementations across industries in some of the world's largest companies. In fact, Zebra has more fixed, handheld and portal RFID systems installed than any other RFID provider. The result? Our deep understanding of the challenges in your industry enables us to help you create and deploy a solution that will maximize the benefits of RFID in your enterprise — and the value of your investment.



# RFID PRINTERS

When you choose Zebra

for your RFID printing needs, you get the industry-best encoding accuracy needed to ensure the right data is embedded in every tag. And whether you need to print high, mid or low volumes of item hang tags, case and pallet labels or RFID-enabled ID, loyalty or membership cards, we have a printer that is perfect for the job.

# RFID Printers

## High Performance Industrial RFID Printers

	ZE500R	ZT600 SERIES
		
<b>PRODUCT DESCRIPTION</b>	The ZE500 is designed for ease of use, service and integration, with a highly reliable engine that is ideal for mission critical print applications.	The ZT610 and ZT620 combine rugged durability and exceptional performance on a user-friendly, future-ready platform. These next-generation workhorses are designed to keep your critical operations running smoothly across a broad range of applications. Their adaptable design allows communications, media handling and other upgrades in the field.
<b>GEOGRAPHIC AVAILABILITY*</b>	NA, EMEA	NA, EMEA, APAC, LATAM
<b>RFID CAPABILITIES</b>	<ul style="list-style-type: none"> <li>• UHF EPC Gen 2 tags</li> <li>• Print and encode short-pitch item-level tags, chip-based serialization for unique items and block permalocking of user memory.</li> </ul>	<ul style="list-style-type: none"> <li>• UHF EPC Gen 2, ISO/IEC 18000-63 and RAIN RFID tags</li> </ul>
<b>MAX. PRINT WIDTH</b>	4.09 in./104 mm	<b>ZT610:</b> 4.09 in./104 mm <b>ZT620:</b> 6.6 in./168 mm
<b>MAX. PRINT SPEED @ RESOLUTION</b>	12 ips @203 dpi 10 ips @300 dpi	14 ips @203 dpi 12 ips @300 dpi 6 ips @600 dpi
<b>MEDIA HANDLING</b>	Applicator Interface	Cutter, Full roll media rewind, Side loading
<b>COMMUNICATIONS</b>	Parallel, Serial, USB, Ethernet, 802.11 b/g	Parallel, Serial, USB, Ethernet, Gigabit Ethernet, 802.11ac, Bluetooth 4.0
<b>DIMENSIONS</b>	Width: 9.6 in./254 mm Depth: 14.6 in./379 mm Height: 11.8 in./300 mm Weight: 34 lbs./15.4 kg	<b>ZT610:</b> Width: 10.56 in./268.2 mm Length: 19.88 in./505 mm Height: 15.58 in./395.68 mm Weight: 50 lbs./22.7 kg  <b>ZD620:</b> Width: 13.44 in./341.45 mm Length: 19.88 in./505 mm Height: 15.58 in./395.68 mm Weight: 57.4 lbs./26 kg
<b>WARRANTY</b>	1 year	1 year
<b>SERVICE</b>	Zebra OneCare	Zebra OneCare

\* Check SolutionBuilder for country-specific availability  
 APAC = Asia Pacific; EMEA = Europe, Middle East, Africa; LATAM = Latin America; NA = North America

# RFID Printers

## Mid-Range Industrial RFID Printers

### ZT400 SERIES



### ZT410 SILVERLINE



<b>PRODUCT DESCRIPTION</b>	The ZT410 and ZT420 printers deliver best-in-class print speed, connectivity options and management and support tools. These printers are optimized to print and encode labels for mid-to high volume applications.	The ideal integrated solution for on-demand RFID asset tagging for all surfaces, including metal and liquid filled containers. Zebra has partnered with Confidex to create the first solution to include an RFID printer specially designed to print and encode Silverline labels.		
<b>GEOGRAPHIC AVAILABILITY*</b>	NA, EMEA, APAC, LATAM	NA, EMEA, APAC, LATAM		
<b>RFID CAPABILITIES</b>	<ul style="list-style-type: none"> <li>• UHF EPC Gen 2 tags</li> <li>• Print and encode short-pitch item-level tags, chip-based serialization for unique items and block permalocking of user memory.</li> </ul>	<ul style="list-style-type: none"> <li>• UHF EPC Gen 2 tags Silverline labels.</li> <li>• Silverline Standard, Silverline Micro and Silverline Slim all surface RFID labels.</li> </ul>		
<b>MAX. PRINT WIDTH</b>	<b>ZT410:</b> 4.09 in./104 mm <b>ZT420:</b> 6.6 in./168 mm	<b>ZT410:</b> 4.09 in./104 mm		
<b>MAX. PRINT SPEED @ RESOLUTION</b>	<b>ZT410:</b> 14 ips @ 203 dpi; 10 ips @ 300 dpi; 4 ips @ 600 dpi <b>ZT420:</b> 12 ips @ 203 dpi; 10 ips @ 300 dpi	<b>ZT410:</b> 14 ips @ 203 dpi		
<b>MEDIA HANDLING</b>	Cutter, Peel with Liner Take Up, Full roll media rewind	N/A		
<b>COMMUNICATIONS</b>	Parallel, Serial, USB, USB Host, Ethernet, 802.11 a/b/g/n, Bluetooth 2.1	Parallel, Serial, USB, USB Host, Ethernet, 802.11 a/b/g/n, Bluetooth 2.1		
<b>DIMENSIONS</b>	<table border="0"> <tr> <td><b>ZT410:</b> Width: 10.6 in./269 mm Depth: 19.5 in./495 mm Height: 12.75 in./324 mm Weight: 36 lbs./16.33 kg</td> <td><b>ZT420:</b> Width: 13.25 in./336.55 mm Depth: 19.5 in./495 mm Height: 12.75 in./324 mm Weight: 40 lbs./18.14 kg</td> </tr> </table>	<b>ZT410:</b> Width: 10.6 in./269 mm Depth: 19.5 in./495 mm Height: 12.75 in./324 mm Weight: 36 lbs./16.33 kg	<b>ZT420:</b> Width: 13.25 in./336.55 mm Depth: 19.5 in./495 mm Height: 12.75 in./324 mm Weight: 40 lbs./18.14 kg	Width: 10.6 in./269 mm Depth: 19.5 in./495 mm Height: 12.75 in./324 mm Weight: 36 lbs./16.33 kg
<b>ZT410:</b> Width: 10.6 in./269 mm Depth: 19.5 in./495 mm Height: 12.75 in./324 mm Weight: 36 lbs./16.33 kg	<b>ZT420:</b> Width: 13.25 in./336.55 mm Depth: 19.5 in./495 mm Height: 12.75 in./324 mm Weight: 40 lbs./18.14 kg			
<b>WARRANTY</b>	1 year	1 year		
<b>SERVICE</b>	Zebra OneCare	Zebra OneCare		

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# RFID Printers

## Compact Desktop RFID Printers

### ZD500R



#### PRODUCT DESCRIPTION

The ZD500R is ideal for space constrained areas, delivering advanced features in a compact and easy-to-use device. The ZD500R offers simple, one-touch printing and encoding, straight-forward loading and automatic RFID calibration, making it ideal in areas where technical support staff is not available.

#### GEOGRAPHIC AVAILABILITY\*

NA, EMEA, APAC, LATAM

#### RFID CAPABILITIES

- UHF EPC Gen 2 tags
- Print and encode short-pitch item-level tags, chip-based serialization for unique items and block permalocking of user memory.

#### MAX. PRINT WIDTH

4.09 in./104 mm

#### MAX. PRINT SPEED @ RESOLUTION

6 ips @ 203 dpi  
4 ips @ 300 dpi

#### MEDIA HANDLING

Cutter, Peeler

#### COMMUNICATIONS

Parallel, Serial, USB, Ethernet,  
802.11 a/b/g/n, Bluetooth 3.0

#### DIMENSIONS

Width: 7.6 in./193 mm  
Depth: 10.0 in./254 mm  
Height: 7.5 in./191 mm  
Weight: 4.9 lbs./2.2 kg

#### WARRANTY

1 year

#### SERVICE

Zebra OneCare

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# RFID Printers

## Mobile RFID Printers

### ZQ520 RFID



<b>PRODUCT DESCRIPTION</b>	With the mobile ZQ520 RFID, you can create on-demand RFID labels when and where they're needed. Patented, military-grade design provides exceptional durability and reliability in the toughest environments. Supporting both Bluetooth and Wi-Fi communications, the ZQ520 is compatible with a wide range of mobile devices and is easy to setup and manage.
<b>GEOGRAPHIC AVAILABILITY*</b>	NA, EU, APAC
<b>RFID CAPABILITIES</b>	<ul style="list-style-type: none"> <li>• Supports tags compatible with UHF EPC Gen 2 V2.0/ISO 18000-6C</li> <li>• Print and encode short-pitch item-level tags, chip-based serialization for unique items and block permalocking of user memory.</li> </ul>
<b>MAX. PRINT WIDTH</b>	4.09 in./104 mm
<b>MAX. PRINT SPEED @ RESOLUTION</b>	Up to 5 in./127 mm per sec @ 203 dpi
<b>MEDIA HANDLING</b>	Dual-sided tear bar
<b>COMMUNICATIONS</b>	USB, Bluetooth 3.0, 802.11a/b/g/n
<b>DIMENSIONS</b>	Width: 6.1 in./155 mm Length: 2.6 in./67 mm Height: 6.2 in./158 mm Weight: 1.81 lb./ 0.82 kg
<b>WARRANTY</b>	1 year
<b>SERVICE</b>	Zebra OneCare

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# RFID Printers

## High Performance RFID Card Printers

### ZXP SERIES 7



<b>PRODUCT DESCRIPTION</b>	ZXP Series 7 provides the capability to read and encode passive UHF cards. Zebra's patented antenna design provides advanced sensitivity and enhanced read rates and range for genuine Zebra UHF cards.
<b>GEOGRAPHIC AVAILABILITY*</b>	NA, EMEA, APAC, LATAM
<b>RFID CAPABILITIES</b>	<ul style="list-style-type: none"> <li>• Gen 2 UHF RFID Encoder</li> <li>• Direct to card printing and encoding of cards</li> <li>• ISO/IEC-7810-2002 compliant</li> </ul>
<b>CARD SIZE</b>	CR-80, ISO 7810 format
<b>MAX. PRINT SPEED @ RESOLUTION</b>	300 dpi/11.8 dots per mm
<b>MEDIA HANDLING</b>	<ul style="list-style-type: none"> <li>• Single or dual sided printing</li> <li>• 200 card capacity feeder</li> <li>• 100 card output hopper</li> </ul>
<b>COMMUNICATIONS</b>	USB, Ethernet, 802.11 b/g
<b>DIMENSIONS**</b>	Width: 27.5 in./699 mm Depth: 10.9 in./277 mm Height: 12.0 in./306 mm Weight: 26.9 lbs./12.2 kg
<b>WARRANTY</b>	2 years
<b>SERVICE</b>	Zebra OneCare

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\*\* Dimensions shown for ZXP Series 7 non-laminator model.



## When it comes to **handheld** and **hands-free RFID** readers, Zebra offers it all.

No matter what you need, we've got it. Choose from industrial rugged handheld and gun-style RFID readers for read intensive tasks in the warehouse, handheld readers suitable for your retail point of sale and sleds that can add RFID to just about any mobile device, including smartphones and tablets.

# Handheld/Hands-Free RFID Readers

Hands-Free RFID Readers		
	DS9900 SERIES FOR RETAIL	DS9900 SERIES FOR LABS
		
<b>PRODUCT DESCRIPTION</b>	The DS9900 Series for Retail is a hybrid imager, built from the ground up for handheld and hands-free use. Designed to boost productivity at the point of sale, it is ideal for retail, convenience stores and quick serve restaurants. Use UHF RFID to commission tags and extend item-level tracking to the point of sale, providing real-time inventory visibility.	The DS9900 Series for Labs is a hybrid imager, built from the ground up for handheld and hands-free use. Designed to improve workflow efficiency and accuracy, it offers white illumination LEDs and a high density focus, making it ideal to capture the many types of barcodes found in the lab. UHF RFID read/write capabilities provide an ideal solution for tracking critical data in blood processing.
<b>GEOGRAPHIC AVAILABILITY*</b>	NA, EU countries and select countries in LATAM and APAC	NA, EU countries and select countries in LATAM and APAC
<b>DATA CAPTURE</b>	Gen 2 RFID tags; 1D/2D barcodes; images, signatures and documents	Gen 2 RFID tags; 1D/2D barcodes; tiny and dense barcodes; barcodes on curved surfaces; color-coded barcodes; images, signatures and documents
<b>IMAGER FOCUS</b>	Standard	High density
<b>EAS DEACTIVATION</b>	Yes (optional)	N/A
<b>ILLUMINATION LEDS/AIMER</b>	Red/amber	White/green
<b>SEALING</b>	IP42	IP42
<b>DROP SPEC</b>	4 ft./1.2 m drops to concrete	4 ft./1.2 m drops to concrete
<b>TUMBLE TESTED</b>	2,000 1.5 ft./0.5 m tumbles	2,000 1.5 ft./0.5 m tumbles
<b>WIRELESS</b>	N/A	N/A
<b>WARRANTY</b>	5 years	5 years
<b>SERVICE</b>	Zebra OneCare	Zebra OneCare

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# Handheld/Hands-Free RFID Readers

Handheld RFID Readers			
	MC3190-Z	MC9190-Z	WORKABOUT PRO 4
			
<b>PRODUCT DESCRIPTION</b>	The MC3190-Z is ideal for the retail storefront, carpeted business offices, hospitals as well as the warehouse and manufacturing production line. It offers lightweight ergonomics and an advanced Zebra RFID reader engine for fast read rates.	The MC9190-Z is a highly rugged RFID handheld reader for use in very demanding applications and environments. Designed for medium- to long-range RFID read applications, the MC9190-Z factor excels in virtually any environment, indoors or outdoors.	WorkAbout Pro 4 offers impressive modularity that lets you buy the features you need now, yet easily add practically any feature you can imagine, right in your own facility. Just swap end caps to add just about any type of RFID — LF, HF or UHF.
<b>GEOGRAPHIC AVAILABILITY*</b>	NA, EMEA, APAC, LATAM	NA, EMEA, APAC, LATAM	NA, EMEA, APAC, LATAM
<b>OPERATING SYSTEM</b>	Windows® Embedded Handheld 6.5	Windows® Embedded Handheld 6.5	Windows® Embedded CE6.0; Windows® Embedded Handheld 6.5
<b>CPU</b>	Marvell PXA320 @ 624 MHz	Marvell PXA320 @ 806 MHz	Sitara™ AM37x @ 1 GHz
<b>MEMORY</b>	256 MB RAM; 1 GB Flash	256 MB RAM; 1 GB ROM	514 MB; RAM 4 GB Flash
<b>EXPANSION SLOT</b>	N/A	Up to 32 GB SD/MMC card	Micro SD slot
<b>DISPLAY</b>	3 in. QVGA color touchscreen	3.7 in. VGA color with digitizer and backlight	3.7 in. VGA /QVGA color touchscreen
<b>KEYBOARD</b>	48-key alphanumeric	28, 43 and 53-key options	Alphanumeric; QWERTY, Numeric
<b>SEALING</b>	IP54; meets and exceeds MIL-STD 810F	IP64 (electronic enclosure, display and keypad)	IP65
<b>DROP SPEC</b>	4 ft./1.2 m across the operating temperature range	6 ft./1.8 m to concrete across the operating temperature range	5 ft./1.5 m to polished concrete
<b>TUMBLE TESTED</b>	500 1.64 ft./0.5 m tumbles at room temperature (1,000 hits)	2,000 3.2 ft./1 m tumbles at room temperature (4,000 hits)	N/A
<b>DATA CAPTURE</b>	EPC Class 1 Gen 2 DRM (DRM compliant up to 0.5W); 1D/2D barcodes; photos, documents	EPC Class 1 Gen 2 DRM (DRM compliant up to 0.5W); 1D/2D barcodes; photos, documents	LF, UHF and HF RFID; 1D/2D barcodes; photos; documents
<b>WIRELESS</b>	802.11a/b/g; WPAN Bluetooth® (regional dependent)	802.11a/b/g; WPAN Bluetooth® (regional dependent)	802.11a/b/g/n; WPAN Bluetooth®
<b>WARRANTY</b>	1 year	1 year	1 year
<b>SERVICE</b>	Zebra OneCare	Zebra OneCare	Zebra OneCare

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# Handheld/Hands-Free RFID Readers

## Handheld RFID Readers

### MC3330R



### MC3390R



#### PRODUCT DESCRIPTION

The MC3330R is designed for inventory, fulfillment and asset management applications. It offers superior RFID read performance and receiver sensitivity for the lightning fast and accurate capture of even the most challenging RFID tags, along with the ability to capture 1D and 2D barcodes with point-and-shoot simplicity. The MC3330R combines Zebra's rugged design with lightweight ergonomics for all-day comfort. And the large touchscreen, physical keypad and Android OS deliver a powerful and flexible platform to meet your RFID application needs today and tomorrow.

The long-range MC3390R brings a new level of efficiency and accuracy to inventory management, order fulfillment, cross-docking and other semi-industrial applications. It delivers superior RFID read range — more than 60 ft./18.2 m away — and best-in-class receiver sensitivity for greater read accuracy, along with an extra long-range barcode scanning option. The MC3390R is built for maximum uptime, yet is lightweight with the right ergonomics for all-day comfort. And the large touchscreen, physical keypad, and Android OS deliver a powerful and flexible platform to meet your long-range RFID application needs today and tomorrow.

#### GEOGRAPHIC AVAILABILITY\*

NA, EMEA, APAC, LATAM

NA, EMEA, APAC, LATAM

#### OPERATING SYSTEM

Android 7.0 (Nougat)

Android 7.0 (Nougat)

#### CPU

Qualcomm 8056 1.8 GHz hexa-core

Qualcomm 8056 1.8 GHz hexa-core

#### MEMORY

4 GB RAM/32 GB Flash

4 GB RAM/32 GB Flash

#### EXPANSION SLOT

Up to 32 GB Micro SD card

Up to 32 GB Micro SD card

#### DISPLAY

4 in. WVGA color touchscreen

4 in. WVGA color touchscreen

#### KEYBOARD

29-key Numeric, 38-key Function Numeric, 46-key Alpha Numeric

29-key Numeric, 38-key Function Numeric, 46-key Alpha Numeric

#### SEALING

IP54

IP54

#### DROP SPEC

5 ft./1.5 m to concrete over the operating temperature range

5 ft./1.5 m to concrete over the operating temperature range

#### TUMBLE TESTED

1,000 1.6 ft./0.5 m tumbles

1,000 1.6 ft./0.5 m tumbles

#### DATA CAPTURE

EPC Class 1 Gen2; EPC Gen2 V2 UHF RFID tags; 1D/2D barcodes

EPC Class 1 Gen2; EPC Gen2 V2 UHF RFID tags; 1D/2D barcodes

#### WIRELESS

802.11 a/b/g/n/ac/d/h/i/k/r/w; WPAN Bluetooth®

802.11 a/b/g/n/ac/d/h/i/k/r/w; WPAN Bluetooth®

#### WARRANTY

1 year

1 year

#### SERVICE

Zebra OneCare

Zebra OneCare

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# Handheld/Hands-Free RFID Readers

## Handheld Sled RFID Readers

### RFD2000 FOR TC20



### RFD8500



#### PRODUCT DESCRIPTION

The RFD2000 is a compact, lightweight sled that easily adds UHF RFID tag reading, writing and locationing capability to the RFID-ready version of the Zebra TC20 touch mobile computer. Superior ergonomics deliver comfort, while the modern design fits into the most design-conscious stores. Workers can just slip the RFD2000 onto the TC20 whenever RFID is needed. Three modes meet the needs of a wide variety of applications — Geiger-counter mode for item finding, triggerless mode for taking inventory and the ability to write barcode data to tags. *NOTE: The RFD2000 is designed exclusively for the Zebra RFID-ready TC20 Touch Computer; TC20 sold separately.*

With the RFD8500, you can easily and cost-effectively add high-performance UHF RFID and 1D/2D barcode scanning to the mobile devices of today and tomorrow. Just pair the Bluetooth-enabled RFD8500 with a compatible Zebra or third-party mobile device, tablet, or smartphone and you're ready to go. You can attach the mobile device to the RFD8500 sled for a complete one-piece solution — or workers can put the mobile device in a pocket and use the RFD8500 in standalone mode. Whether workers are capturing RFID tags or barcodes, the RFD8500 offers the high performance needed to maximize workforce efficiency and productivity. *NOTE: mobile computer sold separately.*

#### GEOGRAPHIC AVAILABILITY\*

NA, EMEA, APAC, LATAM

NA, EMEA, APAC, LATAM

#### OPERATING SYSTEM

N/A

N/A

#### CPU

N/A

N/A

#### MEMORY

N/A

N/A

#### EXPANSION SLOT

N/A

N/A

#### DISPLAY

N/A

N/A

#### KEYBOARD

N/A

N/A

#### SEALING

IP52

IP52

#### DROP SPEC

4 ft./1.2 m drop to concrete

4.1 ft./1.2 m drop to concrete

#### TUMBLE TESTED

500 1.6 ft./0.5 m tumbles at room temperature (1000 drops)

1,000 1.64 ft./0.5 m tumbles at room temperature (2,000 hits)

#### DATA CAPTURE

EPC Class 1 Gen 2, EPC Gen 2 V2 UHF RFID tags

EPC Class 1 Gen 2 UHF RFID tags; 1D/2D barcodes

#### WIRELESS

N/A

WPAN Bluetooth®

#### WARRANTY

1 year

1 year

#### SERVICE

Zebra OneCare

Zebra OneCare

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If you need **fixed RFID readers**, Zebra has you covered...

...with stylish readers for customer-facing areas like the front of the retail store to industrial readers designed to thrive in tough environments.

# Fixed RFID Readers

## Business Class Environments

### FX7500



<b>PRODUCT DESCRIPTION</b>	The FX7500 comes in 2-port or 4-port configurations. Its low profile, compact footprint is at home in nearly any business environment and its plenum rating enables discreet installation. 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. Zebra's software-based radio design delivers superior future proofing. As RFID continues to evolve, the radio can be easily upgraded with new software to support new features — there's no need to rip and replace. And installation of this plenum-rated reader couldn't be easier — just hang the supplied bracket and snap the FX7500 in place.
<b>GEOGRAPHIC AVAILABILITY*</b>	NA, EMEA, APAC, LATAM
<b>READ POINTS</b>	2 or 4 monostatic ports
<b>EXTERNAL INTERFACES</b>	2 inputs, 2 outputs, optically isolated (Terminal Block); USB Client (USB Type B), USB Host Port (Type A)
<b>NETWORK</b>	10/100 BaseT Ethernet (RJ45) with PoE support
<b>FREQUENCY</b>	Global reader: 902–928 MHz, 865–868 MHz; US (only) reader: 902–928 MHz
<b>TAG PROTOCOL</b>	EPC UHF Class 1 Gen 2 (Dense Reader Mode)
<b>HOST INTERFACE PROTOCOLS</b>	LLRP
<b>MANAGEMENT PROTOCOLS</b>	RM 1.0.1 (with XML over HTTP/HTTPS and SNMP binding); RDMP
<b>RUGGED SPECS</b>	Non-sealed
<b>OPERATING TEMP.</b>	-4° to +131° F/-20° to +55° C
<b>OPERATING SYSTEM</b>	Linux
<b>MEMORY</b>	512 MB Flash; 256 MB DRAM
<b>WARRANTY</b>	1 year
<b>SERVICE</b>	RFID Design and Deployment Services; Zebra OneCare

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# Fixed RFID Readers

## Rugged Design for Industrial Spaces

### FX9600



<b>PRODUCT DESCRIPTION</b>	The rugged FX9600 is built for high-volume tough industrial environments. High read performance easily tracks the highest volumes of densely packed cases, pallets and individual items with greater accuracy, even in RF challenging environments with RF challenging materials. Longer read ranges, an IP53 sealing rating, and an extremely durable design make the FX9600 ideal for large distribution center and yard management applications. And an 8-port version sets the standard for performance at a lower cost-per-read point for your deployments.
<b>GEOGRAPHIC AVAILABILITY*</b>	NA, EMEA, APAC, LATAM Available in 75+ countries
<b>READ POINTS</b>	FX9600-4: 4 monostatic ports FX9600-8: 8 monostatic ports
<b>EXTERNAL INTERFACES</b>	4 inputs, 4 outputs, optically isolated (Terminal Block); USB Host & Client (Type A & B); Serial (DB9)
<b>NETWORK</b>	10/100 BaseT Ethernet (RJ45)
<b>POWER</b>	POE (802.3af) POE+ (802.3at) +24V DC (UL Approved)
<b>FREQUENCY</b>	Global Reader: 902–928 MHz, 865–868 MHz US (only) Reader: 902 - 928 MHz Other global frequencies as regionally defined
<b>TAG PROTOCOL</b>	EPC UHF Class 1 Gen 2, Gen 2 V2
<b>HOST INTERFACE PROTOCOLS</b>	LLRP + RM
<b>MANAGEMENT PROTOCOLS</b>	RM 1.0.1 (with XML over HTTP/HTTPS and SNMP binding); RDMP
<b>RUGGED SPECS</b>	IP53, Die-cast aluminum housing
<b>OPERATING TEMP.</b>	-4° to +131° F/-20° to +55° C
<b>OPERATING SYSTEM</b>	Linux
<b>MEMORY</b>	Flash 512 MB; DRAM 256 MB
<b>WARRANTY</b>	1 year
<b>SERVICE</b>	RFID Design and Deployment Services; Zebra OneCare

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# RFID ANTENNAS

**With our complete line of RFID antennas, you can maximize the performance of our RFID readers in every environment — from picture-frame discrete aesthetics for the most discerning retailer to rugged designs built to handle sub-zero temperatures.**

# RFID Antennas

Rugged Antennas		
	AN440	AN480
		
<b>PRODUCT DESCRIPTION</b>	The rugged AN440 High Capacity Antenna is ideal for the largest environments with high product density. This dual-element antenna offers one right and one left circularly polarized 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 both ceilings and walls, you can easily achieve superior coverage in challenging areas such as warehouse doorways, dock platforms and multi-level stockroom shelves.	The AN480 single port antenna offers the flexibility and performance required to meet the needs of enterprises around the world. The AN480 can be installed throughout the enterprise in manufacturing and warehouse floor environments, or in the ceilings of a hospital for asset tracking applications. A low axial ratio delivers a more uniform gain for superior performance, and as with all Zebra antennas, the AN480 uses our standard mounting bracket — so mounting the antenna for the first time or upgrading an existing Zebra antenna with the AN480 is fast and easy. Available in right and left-hand polarization.
<b>TYPE/GAIN</b>	High-performance dual RFID antenna 6 dBi	High-performance indoor wide band RFID antenna 6 dBi
<b>FREQUENCY RANGE</b>	900–928 MHz (Will perform reasonably well in EU frequency in most applications)	865–956 MHz
<b>OPERATING TEMP.</b>	-22° to 158° F/-30° to 70° C	-40° F to 149° F/-40° C to 65° C
<b>SEALING</b>	IP67	IP54
<b>ENVIRONMENTAL</b>	Cold, heat, temperature, shock, humidity, rain, salt fog, random vibration	Cold, heat, temperature, shock, humidity, rain, salt fog, random vibration
<b>GEOGRAPHIC AVAILABILITY</b>	Global	Global

## RFID Antenna Notices

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.

# RFID Antennas

## Slim, Low-Profile Antennas

	AN610	AN620
		
<b>PRODUCT DESCRIPTION</b>	The ultra-low profile AN610 Slimline Antenna offers the “picture frame” discreet aesthetics needed in smaller workspaces such as boutique apparel shops and hospital specimen collection areas. This easy-to-mount, space-saving antenna is rugged enough to handle any environment where you need an RFID reader: in a doorway, on an end-cap display, on shelves, above the counter as an RFID pad, or on the wall.	The ultra-low profile AN620 offers the same “picture frame” discreet aesthetics as the AN610 in a slightly larger form factor with increased read range. The AN620 is designed for larger spaces — such as large department stores. The AN620 can be installed virtually anywhere in your environment — from doorways and walls to shelves, at the point-of-sale, under the counter or even above the counter as an RFID pad.
<b>TYPE/GAIN</b>	Flat panel, slim line, ultra-low profile “picture frame” aesthetic antenna 1.0 dBiLi	Flat panel, slim line, ultra-low profile “picture frame” aesthetic antenna 4.0 dBiLi
<b>FREQUENCY RANGE</b>	US and Canada: 902–928 MHz Europe: 864–868 MHz	US and Canada: 902–928 MHz Europe: 864–868 MHz
<b>OPERATING TEMP.</b>	-22° F to +149° F/-30° C to +65° C	-22° F to +149° F/-30° C to +65° C
<b>SEALING</b>	N/A	N/A
<b>ENVIRONMENTAL</b>	N/A	N/A
<b>GEOGRAPHIC AVAILABILITY</b>	Global	Global

### RFID Antenna Notices

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# RFID Antennas

## Discreet Antennas with Customer-Facing Aesthetics

	AN710	AN720
		
<b>PRODUCT DESCRIPTION</b>	The AN710 is a low gain (3.5 dBi) compact antenna that's great for short range applications and creating a targeted zone. The AN710 is extremely compact for installation in the most space-constrained spaces — for example, under the point of sale (POS) counter or on the wall in a hospital room. Its integrated mounting bracket enables easy installation in minutes.	The AN720 RFID antenna features a compact form factor with a high gain. It's perfect for indoor environments but also rugged enough for challenging outdoor environments and can withstand exposure to rain, snow and extreme temperatures. The AN720 is impact and vibration resistant for installing on conveyors and doorways.
<b>TYPE/GAIN</b>	Compact general purpose indoor antenna 3.5 dBi	Compact rugged indoor-outdoor antenna 3.5 dBi
<b>FREQUENCY RANGE</b>	US and Canada: 900–928 MHz Europe: 865–868 MHz	US and Canada: 902–928 MHz Europe: 865–868 MHz
<b>OPERATING TEMP.</b>	-22° F to 158° F/-30° C to 70° C	-22° F to 158° F/-30° C to 70° C
<b>SEALING</b>	N/A	IP67
<b>ENVIRONMENTAL</b>	N/A	Cold, heat, temperature, shock, humidity, rain, salt fog, random vibration
<b>GEOGRAPHIC AVAILABILITY</b>	Global	Global

### RFID Antenna Notices

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# Zebra Certified Supplies



## Exceptionally Consistent . . . Consistently Exceptional.

Printing supplies can impact everything from printhead lifespan to operational efficiency. That's why we design, produce and rigorously pretest our own line of thermal printing supplies to ensure consistent, optimized performance in your Zebra printer — and peace of mind for you. For industry-leading quality, service and thermal printing expertise, choose Zebra RFID Supplies.

### **THE LARGEST SELECTION OF STOCK RFID LABELS AND CARDS, TESTED FOR YOUR ZEBRA PRINTERS**

Selecting the right RFID labels for your application can be complicated. Zebra offers the widest selection of in-stock RFID labels and cards, designed for and tested with Zebra printers, as well as Zebra RFID readers. We have options for general purpose, advanced and specialty use applications, in a variety of sizes and materials, using inlays from leading manufacturers to meet your needs.



## RFID Labels and Cards to Meet Every Need

### General Purpose Labels

These labels are designed for use with standard RFID readers and are stocked in a variety of inlay types and sizes. They are available in paper and synthetic materials that work on non-metallic surfaces, plastics or corrugate.

#### TYPICAL USES

- **Transportation and Logistics:** Distribution, shipping and receiving and warehouse operations including case, pallet and cross-docking.
- **Manufacturing:** Work-in-process, product labeling, product ID/serial numbers, security and product lifecycle tagging.
- **Healthcare:** Specimen, laboratory and pharmacy labeling, document and patient records management.

### Advanced Labels

Regularly used in retail, healthcare and manufacturing, these labels offer a higher level of read performance than our general purpose labels.

#### TYPICAL USES

- Same as General Purpose applications, where longer read ranges are required.

### Specialty Labels

For specialty situations, such as asset tagging on metal surface or for liquid-filled containers, we offer Silverline On-metal labels.

#### TYPICAL USES

- **Manufacturing:** Asset tracking of tools, fixtures, metal parts, returnable containers, chemical drums and more.
- **IT Equipment Tracking:** Asset tracking of mobile computers, printers, antennas and infrastructure components
- **Healthcare:** Asset tracking of wheelchairs, beds, oxygen canisters, IV pumps and medical diagnostic tools.

### HF and UHF Cards

Maximize safety, security and convenience with Zebra's RFID cards. We offer a passive UHF card, as well as a Dual RF card that combines HF MIFARE® for contactless high frequency and UHF Gen 2 passive RFID for long read-range applications.

#### TYPICAL USES

- **Hospitality:** Customer loyalty, event management, social media experience, club and resort membership, gaming.
- **Access control:** Track employees and guests to increase personal safety and facility security.
- **Asset tracking and inventory management**

**LET ZEBRA SOLUTIONS HELP YOU  
MAKE THE MOST OUT OF RFID  
IN YOUR BUSINESS. FOR MORE  
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**NA and Corporate Headquarters**  
+1 800 423 0442  
inquiry4@zebra.com

**Asia-Pacific Headquarters**  
+65 6858 0722  
contact.apac@zebra.com

**EMEA Headquarters**  
zebra.com/locations  
contact.emea@zebra.com

**Latin America Headquarters**  
+1 847 955 2283  
la.contactme@zebra.com