RFD8500 SERIES

Ease the peace of mind that the investment you make today will serve your business needs tomorrow.

Leverage your mobile computing strategy and add world-class data collection intensive usage. Delivers the superior battery cycle times our unique power-optimizing algorithm for full shift operation.

High performance battery required to maximize workforce efficiency.

Maximum read/write speeds and coverage breakthrough antenna design, you get fast RFID tag capture in various environments. With AutoMac and our patent-pending breakthrough antenna design, you get maximum read/write speeds and coverage required to maximize workforce efficiency.

Flexible connectivity options: Bluetooth or Batch Mode
Enable a real-time wireless connection to your mobile or backend systems via Bluetooth 2.1 or later. If a wireless connection is not available, batch mode enables the collection of up to 500 bar codes and/or 40,000 RFID tags. Just sync to upload the data from the RFD8500 to the host device at any time.

Flexible deployment options
Permanently attach to a compatible mobile device to create a dedicated inventory management device; temporarily attach to enable RFID when and where you need it on the mobile device of your choice, bringing comfort to inventory management tasks; deploy as separate devices — workers can put the host mobile computer in a pocket or on a desk to protect the device and create a lighter RFID solution.

Prevent counterfeiting and protect consumer privacy with EPC Global Gen2 v2
Protect profitability, customer safety and privacy with some of the latest RFID features. Cryptographic tag authentication provides extensive protection against tag cloning, allowing you to deploy non-clonable tags to prevent counterfeit product from entering your supply chain. In addition, the RFD8500 allows businesses to protect a consumer’s post-sales privacy, for instance, by hiding data until a tag is interrogated by the RFD8500 with an untraceable privilege — when a purchased product is returned for a refund or exchange.

Easy to deploy: attach and remove in seconds with standard Quad Lock mounts and custom-tailored adapters
Just twist to lock onto or remove the RFD8500 from any Zebra or third-party mobile computer via a Quad Lock or slide-on/slide-off Zebra custom-tailored adapter.

Instantly capture any printed or electronic 1D/2D bar code
Zebra’s SE4710 enterprise-class imager offers proprietary PRZM Intelligent Imaging technology, a megapixel sensor and advanced optics for lightning-fast capture of 1D and 2D bar codes — even if they are dirty, damaged or poorly printed.

Easily toggle between RFID and bar code scanning
Users can simply tap on a button to switch between RFID and bar code scanning modes on the fly, maximizing ease of use and productivity.

Fast and easy application development with Zebra’s unique ZETI protocol
Our powerful Zebra Easy Text Interface (ZETI) can be used across many OS platforms, reducing the need to utilize a Software Development Kit (SDK) to integrate RFD8500 features into your application. This human readable ASCII protocol makes it fast and easy for the host to communicate with RFD8500 without the need to create an actual application, reducing application development time and cost.

Multi-OS and multi-platform
Leverage your mobile computing strategy and add world-class data collection capability in an economical way. Provides the peace of mind that the investment you make today will serve your business needs tomorrow.

Fast RFID tag capture in various environments
With AutoMac and our patent-pending breakthrough antenna design, you get maximum read/write speeds and coverage required to maximize workforce efficiency.

High performance battery for full shift operation
Our unique power-optimizing algorithm delivers the superior battery cycle times that ensure full-shift power, even with intensive usage.

Flexible deployment options
Permanently attach to a compatible mobile device to create a dedicated inventory management device; temporarily attach to enable RFID when and where you need it on the mobile device of your choice, bringing comfort to inventory management tasks; deploy as separate devices — workers can put the host mobile computer in a pocket or on a desk to protect the device and create a lighter RFID solution.

Prevent counterfeiting and protect consumer privacy with EPC Global Gen2 v2
Protect profitability, customer safety and privacy with some of the latest RFID features. Cryptographic tag authentication provides extensive protection against tag cloning, allowing you to deploy non-clonable tags to prevent counterfeit product from entering your supply chain. In addition, the RFD8500 allows businesses to protect a consumer’s post-sales privacy, for instance, by hiding data until a tag is interrogated by the RFD8500 with an untraceable privilege — when a purchased product is returned for a refund or exchange.
Enterprise-class charging solutions for easy power management
The RFD8500 is compatible with the Zebra TC55 broad eco-system of charging accessories, potentially reducing or even eliminating the need to purchase charging solutions.

Deploy all around the world
The RFD8500 offers the style you need for customer facing areas as well as the durability for all-day everyday business use, making it ideal in just about every industry. And with regulatory approvals for over 80+ countries, the RFD8500 can be deployed globally across your operations.

RFD8500 Specifications Chart

**PHYSICAL CHARACTERISTICS**
- **Dimensions**: 5.1 in. H x 3.1 in. W x 7.3 in. L; 13 cm H x 8 cm W x 18.5 cm L
- **Weight**: Imager Version: 15.3 oz./~435 grams; Non-Imager Version: 15.3 oz./~430 grams
- **Power**: PowerPrecision Li-Ion batteries, 4410 mAh
- **Configurations**: RFID only or RFID with SE4710 Imager
- **Notification**: LED and audible tone
- **User Input**: Trigger, 3 push button switch

**RFID PERFORMANCE**
- **Standards Supported**: EPC Class 1 Gen 2; EPC Gen2 V2
- **RFID Engine**: Zebra Proprietary Radio Technology
- **Fastest Read Rate**: 600+ tags/sec
- **Nominal Read Range**: 20 ft./6 m
- **Frequency Range/RF Output**:
  - US: 902-928MHz; 4 - 34 dBm (EIRP)
  - EU: 865-868MHz; 4 - 34 dBm (EIRP)
  - Japan: 916-921MHz (w LBT), 4 - 34 dBm (EIRP)
  - Japan: 916-923MHz, 4 - 27 dBm (EIRP)
- **Batch Mode Memory**: Store 40,000+ RFID Tags, 500 barcode

**USER ENVIRONMENT**
- **Drop Specification**: Multiple 4ft./1.2 m drops to concrete (0° to 40° C)
- **Tumble Specification**: 1000 drops (500 tumbles, 1.6 ft./0.5 m) at room temperature
- **Operating Temp.**: -10°C to 40°C / 14°F to 104°F
- **Storage Temp.**: -45°C to 70°C / -49°F to 158°F
- **Charging Temp.**: 0°C to 40°C/14°F to 104°F
- **Humidity**: 5-85% non-condensing
- **Electrostatic Discharge**: +/-15kV air discharge, +/-8kV direct discharge, +/-8kVdc indirect discharge
- **Sealing**: IP52

**COMMUNICATION**
- **Bluetooth**: Bluetooth® Version 2.1
  - SPP profile
  - HID Profile
  - Apple iAP2/MFi
- **Bluetooth® Class**: 2
- **Bluetooth® Pairing**: Secure Simple Pairing ‘just works’ method
- **Compatible Host Devices (Bluetooth®)**: Devices with Android 4.4 or iOS 8 OS
- **External Interface**: MicroUSB Connector and Charging Cradle based charging
- **Other Accessories**: Adapter mounts for Enterprise Zebra Mobile Computers; Quad lock adapter for variety of smart phones

**REGULATORY**
- **EMI/EMC**: FCC Part 15 Subpart B Class B; ICES 003 Class B; EN 301 489-1; EN 301 489-3; EN 301 489-17; EN 55022 Class B; EN55024; EN 55032 Class B
- **Electrical Safety**: UL 60950-1, CAN/CSA C22.2 No. 60950-1, IEC 60950-1
- **RF Exposure**:
  - EU: EN 30364, EN 62479; USA: FCC Part 2 (Section 2.1091), OET Bulletin 65 Supplement C; Canada: RSS-102
  - EU: EN 300 328, FCC Part 15 Subpart C; Canada: RSS-247
- **RFID/Bluetooth**:
  - EU: EN 300 328, FCC Part 15 Subpart C; Canada: RSS-247

**WARRANTY**
Subject to the terms of Zebra’s hardware warranty statement, the RFD8500 is warranted against defects in workmanship and materials for a period of 1 (one) year from the date of shipment. For complete warranty statement, go to: http://www.zebra.com/warranty

*AutoMac is a self-optimizing radio feature that automatically adapts to fast tag reading in various environments.