



AT RFD 8500 Series



Easily add high-performance UHF RFID and bar code capture to the mobile devices

With the RFD8500 compatible third-party mobile devices, tablets and smart phones with enterprise-class UHF RFID and 1D/2D bar code scanning technology, whenever and wherever you need it — simply, easily and Cost-effectively. Just pair this Bluetooth-enabled sled with your mobile device and attach the mobile device to the RFD8500 for a single-handed RFID reader solution — or put the mobile device in a pocket or holster and use the RFD8500 in standalone mode.

With support for Android, iOS, and in the future, Windows, you get real investment protection — the RFD8500 sleds you buy today will work with the devices you use now, and in the future. When it comes to performance, whether your workers are capturing RFID tags or bar codes, the RFD8500 is unparalleled — workers can capture tags and bar codes faster and with ease, improving productivity, operational efficiency and customer service. The RFD8500 — Style you can admire. Comfort you can feel. Flexibility your enterprise needs. Performance you can rely on. Battery life you can take for granted. And value you can appreciate.



Main Features:

➤ 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.

➤ 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 third party mobile computer via a Quad Lock.

➤ 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.

➤ 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 RFID tag capture in various environments

With Auto Mac* and our patent-pending breakthrough antenna design, you get maximum read/write speeds and coverage required to maximize workforce efficiency.



➤ **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.

➤ **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.

➤ **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.

➤ **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.

➤ **Deploy all around the world**

The RFD 8500 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.



Specifications Chart:

| MODEL | RFD 8500 Series |
|--|---|
| Physical Characteristics | |
| Dimensions | 5.1 in. H x 3.1 in. W x in. 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 | Power Precision Li-Ion batteries, 4410 mAh |
| Power Precision Li-Ion batteries, 4410 mAh | 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 4 ft./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. | -40°C to 70°C / -40°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 |



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|---|---|
| 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 |
| Accessories | |
| 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 |
| REGULATOR Y | |
| 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, EN 60950-1 |
| RF Exposure | EU: EN 50364, EN 62479; USA: FCC Part 2 (Section 2.1091), OET Bulletin 65 Supplement C; Canada: RSS-102 |
| RFID/Bluetooth | EU: EN 300 328, FCC Part 15 Subpart C; Canada: RSS-247 |