

# RFD8500i

## Easily add high-performance UHF RFID reading to Zebra's TC55 touch mobile computer

The RFD8500i adds the power of enterprise-class UHF RFID reading to Zebra's TC55 touch mobile computer — simply, easily and cost-effectively. The RFD8500i utilizes NFC/Bluetooth for proximity pairing to quickly and securely connect to the TC55 via an enhanced adaptor. When it comes to performance, the RFD8500i/TC55 combination is unparalleled — workers can capture tags and bar codes faster and with ease, improving productivity, operational efficiency and customer service. The RFD8500i — 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.



RFD8500i only compatible with TC55 touch mobile computer with 1X battery

### Proximity Quick-Pairing

Combining the RFD8500i's and TC55's NFC capabilities are a match made in heaven. Just slide the TC55 touch mobile computer into the spring-loaded adaptor for easy insertion, pairing, and removal.

### 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 data capture options: UHF RFID and Barcode

In addition to the ability of the RFD8500i to read UHF RFID tags, users can use the TC55's integrated 1D/2D imager to capture barcodes.

### 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 RFD8500i allows businesses to protect a consumer's post-sales privacy, for instance, by hiding data until a tag is interrogated by the RFD8500i with an untraceable privilege — when a purchased product is returned for a refund or exchange.

### Charging solutions to fit your environment's needs

With a 1- and 4-slot charging cradle, your charging possibilities are endless. And with the ability to charge both the TC55 and RFD8500i combined in the same slot or independently, you can maximize your charging solution.

### Fast and easy application development

Zebra's powerful Android RFID Software Developer Kit (SDK) and ZETI, the human readable ASCII protocol, can be used for fast and easy application development for the TC55 host mobile computer to communicate with RFD8500i.

### Enterprise-class charging solutions

Zebra offers 1-slot or 4-slot cradle options which can charge the RFD8500i/TC55 independently or together in the same slot.

### Deploy all around the world

The RFD8500i 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 RFD8500i can be deployed globally across your operations.

# RFD8500i Specifications Chart

PHYSICAL CHARACTERISTICS	
<b>Dimensions</b>	6.0 in. H x 3.1 in. W x 7.1 in. L 15.2 cm H x 7.9 cm W x 18.1 cm L
<b>Weight</b>	15.3 oz./ <sup>m</sup> 465 grams with 1X battery
<b>Power</b>	PowerPrecision Li-Ion batteries Standard 1X: 2940 mAh Extended 1.5X: 4410 mAh (recommended)
<b>Configurations</b>	RFID only
<b>Notification</b>	LED and audible tone
<b>User Input</b>	Trigger, 3 push button switch
RFID PERFORMANCE	
<b>Standards Supported</b>	EPC Class 1 Gen 2; EPC Gen2 V2
<b>RFID Engine</b>	Zebra Proprietary Radio Technology
<b>Fastest Read Rate</b>	600+ tags/sec
<b>Nominal Read Range</b>	20+ ft./6+ m
<b>Frequency Range/ RF Output</b>	US: 902-928MHz; 4 - 34 dBm (EIRP) EU: 865-868MHz; 4 - 34 dBm (EIRP) Japan: 916-921MHz (w LBT), 4 - 34 dBm (EIRP)
<b>Batch Mode Memory</b>	Store 40,000+ RFID Tags, 500 barcode
USER ENVIRONMENT	
<b>Drop Specification</b>	Multiple 4 ft./1.2 m drops to concrete (0° to 40° C)
<b>Tumble Specification</b>	1000 drops (500 tumbles, 1.6 ft./0.5 m) at room temperature
<b>Operating Temp.</b>	-10°C to 40°C / 14°F to 104°F
<b>Storage Temp.</b>	-40°C to 70°C / -40°F to 158°F
<b>Charging Temp.</b>	0°C to 40°C / 14°F to 104°F
<b>Humidity</b>	5-85% non-condensing
<b>Electrostatic Discharge</b>	+/-15kV air discharge, +/-8kV direct discharge, +/-8kVdc indirect discharge
<b>Sealing</b>	IP52

COMMUNICATION	
<b>Bluetooth*</b>	Bluetooth* Version 2.1 SPP profile HID Profile
<b>Bluetooth* Class</b>	2
<b>Pairing Method</b>	NFC / Bluetooth
<b>Compatible Host Devices</b>	Zebra TC55 touch mobile computer
ACCESSORIES	
<b>External Interface</b>	MicroUSB Connector and Charging Cradle based charging
<b>Other Accessories</b>	1-Slot Charging Cradle 4-Slot Charging Cradle
REGULATORY	
<b>EMI/EMC</b>	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
<b>Electrical Safety</b>	UL 60950-1, CAN/CSA C22.2 No. 60950-1, IEC 60950-1, EN 60950-1
<b>RF Exposure</b>	EU: EN 50364, EN 62479; USA: FCC Part 2 (Section 2.1091), OET Bulletin 65 Supplement C; Canada: RSS-102
<b>RFID/Bluetooth</b>	EU: EN 300 328, FCC Part 15 Subpart C; Canada: RSS-247
WARRANTY	
Subject to the terms of Zebra's hardware warranty statement, the RFD8500i 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: <a href="http://www.zebra.com/warranty">http://www.zebra.com/warranty</a>	

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



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