UHF RFID Handheld Reader RFD8500

The RFD8500 RFID sled reader from Zebra Technologies is designed to easily add high-performance RFID tag reading and writing with barcode scanning to iOS™ and Android™ mobile devices. The lightweight, ergonomic reader offers full-shift battery life, making it ideal for inventory management, product location and replenishment tasks.

Designed to read and write EPC Class 1 Gen 2 UHF RFID tags, it communicates with mobile devices using Bluetooth® wireless technology and is available with an optional 1D/2D barcode imager.

The RFD8500 has a comprehensive line of accessories including custom mounts for popular mobile devices, spare batteries and a 3-slot cradle charger to support high volume retail operations.

When paired with approved iOS™ or Android™ mobile devices, the RFD8500 reader can use Tyco's TrueVUE® Inventory Intelligence software to cycle count inventory at very high speed and with increased accuracy compared with traditional barcode-based counting.

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This combination of software, mobile device and the RFD8500 enables retailers to increase inventory accuracy, the foundation for profitable omni-channel order fulfillment. Product locator uses Geiger counter mode with audible feedback to efficiently find a specific product in the store. Merchandise being received or transferred can be quickly counted and processed to update inventory records. RFID labels can be read and written as needed to replace lost or missing tags.

Retailer Values

// Protects investment in approved iOS™ or Android™ mobile devices deployed for other retail tasks

// Reduces training requirements with familiar mobile device interface

// Delivers high-capacity battery and unique power-optimizing algorithm

// Features fast tag capture and extended read range compared to similar devices

// Enables upgrades to support new standards, devices and features with unique software-defined reader

Product Codes

8500-HHC-NA
Bluetooth UHF RFID Reader Sled (FCC)

8500-HHC-2D-NA
Bluetooth UHF RFID Reader Sled (FCC) with 1D/2D barcode imager

8500-HHC-EU
Bluetooth UHF RFID Reader Sled (ETSI)

8500-HHC-2D-EU
Bluetooth UHF RFID Reader Sled (ETSI) with 1D/2D barcode imager

Options

Mobile Device Mounts
iPod Touch 5th, 6th generation
iPhone 5 or newer

Quad Lock® Battery Door, required for mounting iOS devices

Android TC55 Mount Adapter

Android MC40 Mount Adapter

Charging
Spare 1.5X battery

8500 3 Slot Charging Cradle

Product Compatibility

TrueVUE Software

EPC Gen2 standard RFID Tag Sensormatic

AM/RFID 2D Barcode Tag

Specifications

Dimensions .... 13.0 x 8.0 x 18.5cm
(5.1 x 3.1 x 7.3 in)

Weight

Imager Version 435gr (15.34oz)
Non-Imager Version 430gr (15.16oz)

Power .... Removable, Rechargeable
PowerPrecision Li-Ion
batteries, 4410 mAh

Configurations
RFID with SE4710 Imager or RFID-only
for mobile devices with integrated imager

Notification
LED and audible tone

User Input
Trigger, 3 push button switch

Environmental Constraints

Operating Temperature
-10°C to 40°C (14°F to 104°F)

Charging Temperature
0°C to 40°C (32°F to 104°F)

Storage Temperature
-40°C to 70°C (-40°F to 158°F)

Humidity
5% to 85% non-condensing

Drop Specification
Multiple 1.2m (4ft) drops to concrete
(0°C to 40°C)

Tumble Specification
1000 drops (500 tumbles, 0.5m (1.6ft)
at room temperature)

Sealing
IP52

Bluetooth Wireless Technology

Bluetooth:
Bluetooth Version 2.1,
Apple iAP

Bluetooth Class:
Class 2, 10m (32.8ft) range

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
6m (20ft)

Frequency Range/RF Output
US: 902-928MHz; 4 - 34 dBm (EIRP)
EU: 865-868MHz; 4 - 34 dBm (EIRP)

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, 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

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**UHF RFID Handheld Reader
RFD-8500**

UHF RFID RFD-8500
Charging Dock