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RFR901

Bluebird's Globally-Proven Next-Gen RFID Solutions
New Industry-Leading Handheld UHF RFID Reader

The Best Lightweight, Ergonomic Design

40% Longer Read Range
30% Faster Read Rate
than the Best Alternatives

Universal Mount for Mobile Devices

Not all the features discussed in this document will apply to every unit, as some of the features are offered as options. The information contained herein is proprietary and is provided solely for the purpose of allowing customers to operate and/or service Bluebird manufactured equipment and is not to be released, reproduced, or used for any other purpose without written permission of Bluebird.

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WHY BLUEBIRD

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BUSINESS CHALLENGES & SOLUTIONS

BUSINESS CHALLENGES

: Increase Productivity and Efficiency

Adopting new technologies to achieve more with less, is key to survival in highly competitive markets.

The benefits must outweigh the switching costs of adopting new solutions.

Making work easier with new technologies can lead to increased revenue, and customer satisfaction

BUSINESS CHALLENGES

: Increase User Convenience

When any user encounters a new technology or device for the first time, there will always be a learning curve.

RFR901
with EF550

Bluebird’s Globally-Proven RFID Solutions

RFR901

New Industry-Leading Handheld UHF RFID Reader

The next-generation model of the Bluebird RFR900 has more advanced features.

Deliver a better customer experience with **RFR901**

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WHAT IS THE VALUE OF RFR901

Through the **RFR901** provided by Bluebird, an effective RFID system can be introduced.

Increase Work Productivity and Efficiency

RFR901 has the longest reading distance and the fastest reading speed, It is able to reduce working hours by minimizing time spent on unnecessary work processes

Convenience and Flexibility

Lightweight and ergonomic design does not strain the wrist during prolonged use. With 1 trigger button, you can use all three different modes of the reader - RFID tag reading, barcode scanning, and both at the same time.

Reducing Adoption Cost

There is no need to purchase an additional terminal to use the RFR901. It can be connected to any mobile device that supports Bluetooth, and also can be used with a large number of mobile devices using the universal mount.

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VERTICALS & USAGES

RFR901 VERTICALS

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RETAIL

- Cycle Count
- Find Items
- Planogram Compliance Return
- Inventory Management
- Warehouse Management
- Backroom Management
- BOPIS/BOPAC
- Direct Store Delivery
- Root Accounting

HOSPITALITY SERVICE

- Check-in and Management
- Ticketing: Concerts, Sports Events, etc.
- Point Card
- Food Safety and Traceability
- Inventory Management
- Field Service

HEALTHCARE

- Patient and Specimen Tracking
- Hospital Asset Management and Tracking
- Employee Management and Tracking
- Patient Identification
- Real-time Location Awareness System (RTLS)
- Pharmacy and Drug Management
- Medical Data Management and Tracking

DATA CENTER

- Asset Management and Tracking

WAREHOUSE

- Inventory/Cycle Count
- Automatic Replenishment
- Incoming/Out of Stock Management
- Item Tracking/Location Tracking
- Omni-channel Fulfillment

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MAIN FEATURES

USER CENTRIC DESIGN

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LED Indicator visible from multiple angles is a user-centric design that leads to a more **Intuitive** and **Easy User Experience**

OPTIMAL WEIGHT DISTRIBUTION DESIGN

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- The weight is distributed by applying a **QUADRUPLE SUPPORT DESIGN**
  : Support for the web of the hand, the locking of the middle finger, and nesting in the palm

- It is an Ergonomic Design that considers the user by **MINIMIZING FATIGUE FROM WEIGHT**

ERGONOMIC DESIGN - THE HANDLE

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- Long, Flexible Grip design provides Comfort when gripping
- It is a User-Friendly design that optimizes the Centre of Gravity during Use and Movement, with a Trigger Housing and Handle base to **PREVENT SLIPPAGE**

WHY CHOOSE THE RFR901?

01

Unmatched RFID Reading Performance

02

Light and Ergonomic Design

03

User-Friendly Trigger Button

04

Flexible Mount Options

05

Supports Physical Connection & Bluetooth Connection

06

Proven Durability in Harsh Environments

01

UNMATCHE RFID READING PERFORMANCE

40% longer read range & 30% faster read rate than major competitors

- Longest read range of **10 METERS**, the fastest read rate of **1,300+ TAGS** per second
- RFR901 is able to store over **60,000 RFID TAGS** in batch mode
- It shortens working hours and reduces the risk of safety accidents
- Read RFID tags from a **LONGER DISTANCE**, and **FASTER** without ladders or other equipment

Prevent Cross-Reading

- Reading output can be controlled in units of **1dB**, allowing you to accurately read only the tag of the desired item in the work area

Support for finding specific items

- Using the item search mode, you can see a **GAUGE THAT RISES CLOSER TO THE TAG** you want. Quickly find the location of the desired item among the numerous items

02

THE BEST LIGHTWEIGHT, ERGONOMIC DESIGN

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The RFR901 weighs only **353g**, which does not strain your wrists during prolonged use.

Ergonomically shaped pistol grip of the RFR901 assists in correct finger placement.

03

USER-FRIENDLY ONE TRIGGER BUTTON

RFID Reading

Barcode Scanning

04

FLEXIBLE MOUNT OPTIONS

Universal Mount

- **BACKWARD COMPATIBLE** with mobile devices that are already used by your workers

Support for Future Bluebird Mobile Computer Connection

- Choose the **MOUNT of any** Bluebird mobile computer, including **FUTURE EF/VX/HF SERIES** and current models

An Effective RFID System at a Reasonable Price

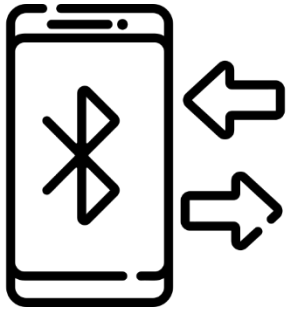
- Available to use **RFID SYSTEM** without replacing the mobile computer currently in use

05

SUPPORT PHYSICAL AND BLUETOOTH CONNECTIONS

Data can be read immediately after attaching to the RFR901 slit with bluebird **EF/VX/HF SERIES** terminal with a 10-pin electrical connector attached.

Support Both Physical and Bluetooth 5.0 Connections



It is compatible with all mobile devices that support Bluetooth.

It is able to pair immediately to a mobile devices capable of Bluetooth connection through **NFC OOB pairing function** with a single tap

06

DURABILITY VERIFIED IN HARSH ENVIRONMENTS

OPERATING TEMPERATURE	DROP SPECIFICATION	TUMBLE SPECIFICATION	IP42 SEALED
It can be used even in a harsh and high-temperature working environment in the range of 20°C to 60°C / -4°F to 140°F	Passed several drop tests on concrete at a height of 4 ft./1.5 m	500 cycles, 1.6 ft./0.5 m high, several collision tests passed	Suitable for severe use and supports dustproof and waterproof functions

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SPECIFICATIONS

RFR901 SPECIFICATIONS

Physical Characteristics

Dimensions (L x W x D) : 133.6 x 85.4 x 144.5 mm
Weight : 353g
Power : User replaceable Battery
- Standard : 3.63V, 5,000 mAh
- Extended : 7,000 mAh (Optional)
- BOS™ PowerManager

User Input : Trigger, 3 push button
(Mode Change, Batch mode, Power, BT)
Notification : 5 LED, audible tone

User Environment

Operating Temp. : -20°C to 60°C / -4°F to 140°F
Storage Temp. : -40°C to 70°C / -40°F to 158°F
Humidity : 95% non-condensing
Drop Spec. : Multiple 4ft./1.5 m drops to concrete at room temperature
Tumble Spec. : 1000 drops (500 tumbles, 1.6 ft./0.5m) at room temperature
Sealing : IP54
Electrostatic Discharge (ESD) :
+/-15kVdc air discharge
+/-8kVdc direct discharge
+/-8kVdc indirect discharge

RFID Performance

Standards Supported : EPC Class 1 Gen 2; EPC GEN2 V2
Fastest Read Rate : 1,300+ Tags/sec
Nominal Read Range : 32.8+ ft./ 10+ m
Frequency Range / RF Output :
US: 902-928MHz
EU: 865-868MHz
EU Upper: 915-921MHz
Japan 1: 916-921MHz
Japan 2: 916-923 MHz
China: 920.5-924.5 MHz

Communication

Host Connection : Electrical 10-pin Connection; Bluetooth Connection; USB-C Cable
Host Computer : EF550/EF550R, VX500, HF550
Bluetooth-enabled Consumer Device
Windows-Based PC

Accessories

In-box : Battery, Wrist Strap

(Additional)
Adapters for Mobile Computers
- EF550/550R,VX500,HF550 Mount
- Universal Mount (for Consumer Devices)
- Standalone Mount

Power Adapter, Adapter Plug / Cord, USB Cable
1-Slot Charging Cradle
- Universal & Standalone Cradle
- EF550/550R,VX500,HF550 Cradle

4-Slot Charging Cradle
- Universal & Standalone Cradle
- EF550/550R,VX500,HF550 Cradle

4-Slot Battery Charger

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WHY BLUEBIRD

BLUEBIRD_ Enterprise Android Specialist

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SINCE 1995

Experience in enterprise mobile industry since 1995, ICON for Innovation and Reliability

SINCE 2011

World's FIRST Launcher for Android Enterprise mobile computer, Specialist of Android OS

Device Software Eco-system

Software eco-system support for Android device security, maintenance, utilization & management

Customer References in Various Verticals and Countries

Proven product quality and technology by 3,300 global customer references

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THANK YOU

www.bluebirdcorp.com