

# Long Range RFID Solutions

BioEnable offers wide range of Long Range RFID solutions



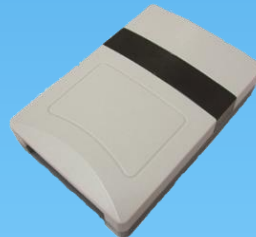
## UHF.One Integrated - UHF Reader with Integrated antenna

- ✓ Long Range up to 12 meters
- ✓ Integrated All-in-One design
- ✓ High Identification Rate up to 200 Tags
- ✓ Suitable for Parking, Asset & Inventory management



## UHF.One - Desktop UHF reader/writer

- ✓ High Speed Read/Write on UHF Tag
- ✓ Support Auto-running and Interactive Work Mode



## Tags



uID - ID Cards



uLabels - Labels/Inlays



uMetal01 - Metal Mount Tags



uMetal02 - Small size metal mount tags





## ELECTRICAL SPECIFICATION

Operating Voltage Range	9 to 12 VDC (2 A)
Input Current	Standby: 0.2 A max, Read: 1.2 A max
Card Read Distance	Up to 12 m (39.4 ft.) (adjustable)
Transmission Protocol	Wiegand 26 - Bit (Custom: Wiegand 34-Bit)
Maximum Cable Distance	150 m (500 ft.)
Read Sensitivity	Dual polarization read mode
Frequency	865 – 867 MHz (India) 902–928 MHz (America) 865–868 MHz (Europe)

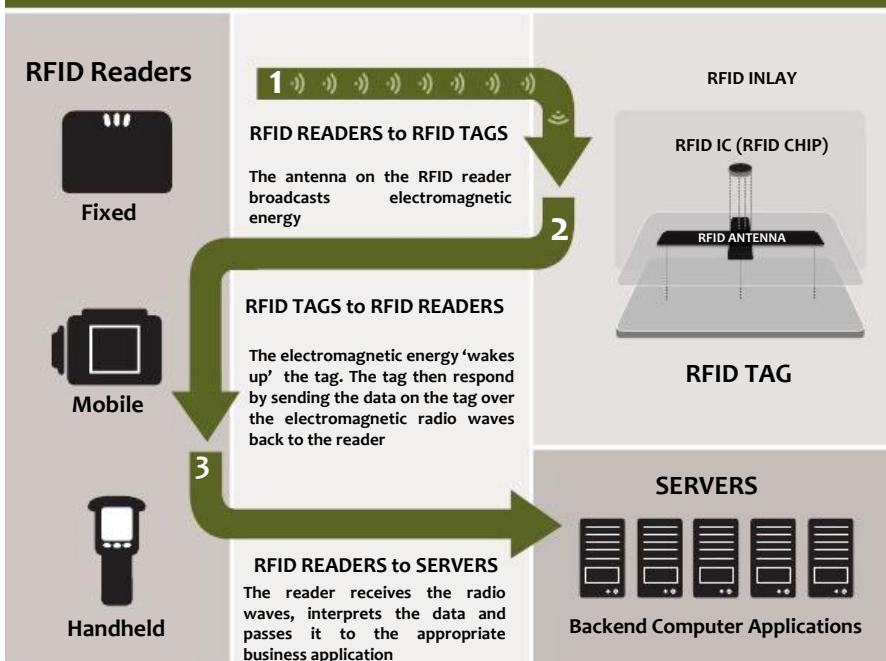
## ENVIRONMENTAL SPECIFICATION

Operating Temp. Range	-20°C to 80°C (-4°F to 176°F)
Storage Temp. Range	-40°C to 125°C (-40°F to 257°F)
Operating Humidity	0 to 95% (non -condensing) Suitable for outdoor use (IP54)

## PHYSICAL SPECIFICATION

Dimensions	44 x 44 x 5 mm (1.73 x 1.73 x 0.20in.)
Weight	2.32 kg (5.11 lb.)
System Components	compatible with standard access controllers

## HOW IT WORKS: THE UHF RFID COMMUNICATION LOOP



# Park.one - RFID Parking Management System



Complete automation of gate helps you keep detailed logs of events, enhance security and reduce manpower cost. Our solution based on latest long range RFID can help automate the complete operations.

## Who benefits from Park.One?

- ✓ SEZs, Corporate & IT parks
- ✓ Malls & Commercial complexes
- ✓ Pay and park facilities
- ✓ Residential complexes

## Features

- Pay-and-Park systems
- RFID enabled systems
- Enhanced security layer
  - CCTV Cameras
  - Under Vehicle Camera
  - Number plate recognition
  - Face recognition
- Advanced parking management software
- Dynamic messaging system
- Integrated access control system
- Cloud based database management
- Web based software



	Manual Parking System	RFID Parking System
Authentication	Guards manually check for access card/or other authentication ID	All vehicles are tagged with RFID tags for automated authentication Easy and faster authentication.
Security Layer	Manual security checks are performed	Integrated security systems – under vehicle scanner system CCTV cameras Number plate and Face recognition system
Parking Management	Manual logs of vacant parking slots are kept	Automated logs are generated  Integrated dynamic messaging system for parking guidance
Reports and Audits	Manual reports are generated	Automated central reporting system Online reports can be generated

# Applications



## RETAIL

Retailers need detailed inventory information to keep the right items on the shelves of the store. But manual cycle counts are too costly to be performed frequently enough to provide current information. UHF RFID's constant and accurate inventory information provides visibility into inventory levels, allowing retailers to make sure that customers find the products they want to purchase on the store shelves. And since the information is collected automatically, sales associates can spend more time with your customers — instead of managing inventory.

### BENEFITS

- Achieve near 100% inventory accuracy
- Maintain real time inventory information without any labor costs
- Reduce out of stocks by as much as 80 percent & inventory cost by 59%
- Minimize markdowns
- Increase associate efficiency — associates are free to spend more time serving customers

### APPLICATIONS

- Inventory and cycle counting
- Receiving
- Replenishment
- Item locating
- Loss detection/prevention
- Demand forecasting



## DISTRIBUTION AND WAREHOUSING

In the distribution industry, profitability is tightly tied to how fast and accurately inventory moves in, through and out of the warehouse. With UHF RFID, warehouse workers have the visibility they need to process thousands or hundreds of thousands of items every day, as fast and accurately as possible.

### BENEFITS

- Achieve near-100 percent order and shipping accuracy
- Process orders up to 40 percent faster
- Improve workforce efficiency — reduce labor costs up
- Improve inventory turns & Automate advanced shipping notice (ASN) delivery and receipt
- Improve customer and trading partner satisfaction by delivering the right items on time, every time

### APPLICATIONS

- Shipping and receiving
- Put-away and picking
- Cross-docking
- Returnable Transport Item (RTI) management
- Inventory



## MANUFACTURING

For manufacturers, success hinges on the speed and accuracy of their manufacturing operations. UHF RFID provides instant and accurate tracking of information at every step inside the manufacturing plant, trimming wasted time and costs out of end-to-end manufacturing processes — from receipt of raw goods to RFID-enabling supply, sequencing, assembly and shipping of final product. The net result is a leaner and more profitable manufacturing operation.

### BENEFITS

- Improve global inventory accuracy — from raw to finished goods
- Improve product quality with increased automation of process and materials visibility
- Increase shipping and receiving accuracy

### APPLICATIONS

- End-to-end warehouse operations
- Quality assurance
- Line sequencing, raw material supply
- E-Kanban/replenishment
- Work-in-Process (WIP)/Just in time (JIT)