Long Range RFID Solutions

We offer a 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

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Voltage Range</td>
<td>9 to 12 VDC (2 A)</td>
</tr>
<tr>
<td>Input Current</td>
<td>Standby: 0.2 A max, Read: 1.2 A max</td>
</tr>
<tr>
<td>Card Read Distance</td>
<td>Up to 12 m (49.4 ft.) (adjustable)</td>
</tr>
<tr>
<td>Transmission Protocol</td>
<td>Wiegand 26 - Bit (Custom: Wiegand 34-Bit)</td>
</tr>
<tr>
<td>Maximum Cable Distance</td>
<td>150 m (500 ft.)</td>
</tr>
<tr>
<td>Read Sensitivity</td>
<td>Dual polarization read mode</td>
</tr>
<tr>
<td>Frequency</td>
<td>865 – 867 MHz (India)</td>
</tr>
<tr>
<td></td>
<td>902–928 MHz (America)</td>
</tr>
<tr>
<td></td>
<td>865–868 MHz (Europe)</td>
</tr>
</tbody>
</table>

### ENVIRONMENTAL SPECIFICATION

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temp. Range</td>
<td>-20°C to 80°C (-4°F to 176°F)</td>
</tr>
<tr>
<td>Storage Temp. Range</td>
<td>-40°C to 125°C (-40°F to 257°F)</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>0 to 95% (non-condensing)</td>
</tr>
<tr>
<td></td>
<td>Suitable for outdoor use (IP54)</td>
</tr>
</tbody>
</table>

### PHYSICAL SPECIFICATION

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>44 x 44 x 5 mm (1.73 x 1.73 x 0.20 in.)</td>
</tr>
<tr>
<td>Weight</td>
<td>2.32 kg (5.11 lb.)</td>
</tr>
<tr>
<td>System Components</td>
<td>compatible with standard access controllers</td>
</tr>
</tbody>
</table>

### HOW IT WORKS: THE UHF RFID COMMUNICATION LOOP

1. **RFID READERS to RFID TAGS**
   - The antenna on the RFID reader broadcasts electromagnetic energy.

2. **RFID TAGS to RFID READERS**
   - The electromagnetic energy 'wakes up' the tag. The tag then responds by sending the data on the tag over the electromagnetic radio waves back to the reader.

3. **RFID READERS to SERVERS**
   - The reader receives the radio waves, interprets the data and passes it to the appropriate business application.
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

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

sales@ravirajtech.com
http://www.ravirajtech.com
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.

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

**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

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.

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

**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

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.

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

**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