

# RFID

INTELLIGENT INFORMATION  
DEEPER INSIGHT  
MORE VISIBILITY  
BETTER CONTROL  
REDEFINED PROCESSES

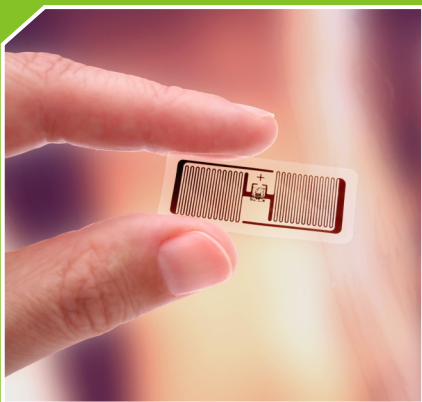


**RapidRadio Solutions Pvt. Ltd.**

# About RFIDs

Across the Globe, there are various companies using data management applications to take quick decisions, keep inventories, provide quality and maintain accuracy. To have this competitive edge and to stay ahead in today's business world every organization have to equip themselves with new technologies and process.

Radio Frequency IDentification (RFID) is one such technology, a next generation tool of Auto Identification and Data Collection (AIDC) technology which helps an organization to automate business processes. This automation can provide accurate and timely information without any human intervention to the data management systems. Access to such information where one can individually identify each one of the tagged items uniquely can help in improving processes and also to take informed decision.



# RFID

# What We Do



RapidRadio with its technical expertise in RFID Technology and its physics focuses on

**DESIGNING**

**DEVELOPING**

**INNOVATING &**

**DEPLOYING RFID** HARDWARE SOLUTIONS

RapidRadio Solutions can

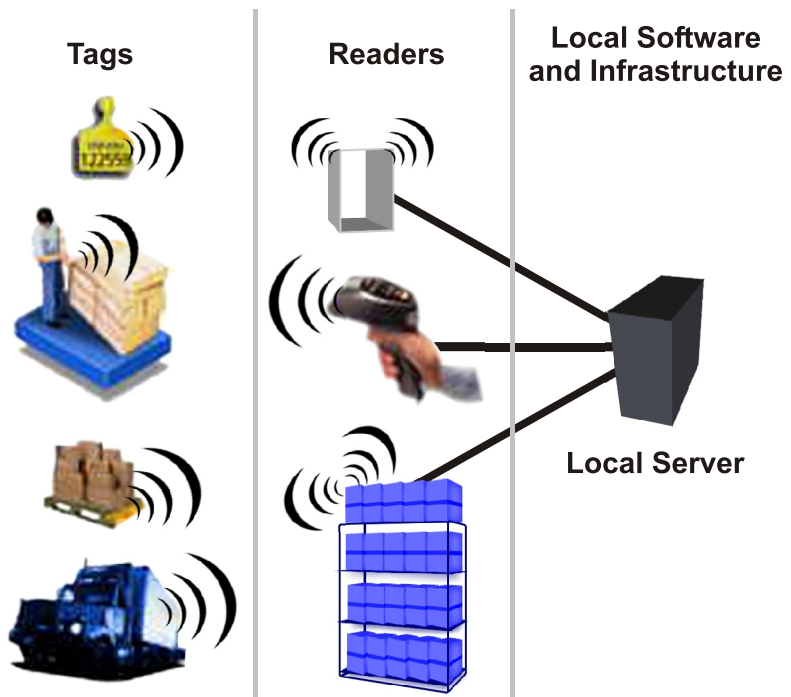
- Partner in RFID deployment right from need assessment, the pilot run to full fledged implementation
- Serve as one stop shop for RFID hardware requirements
- Custom design, develop and implement RFID hardware for specific application needs
- Support for developing RFID enabled software applications via phone, email or chat

**Mission:** RapidRadio is committed to providing a unique package of cost effective solutions, quality service and complete satisfaction to customers by continuous innovation and R&D, focusing on end user needs and building strategic partnerships with solution providers and system integrators.

# RFID

# RFID Basics

RFID system consists of three basic components. They are RFID Reader, RFID Transponder and the Host System. RFID Reader transmits the radio signal which energizes the passive transponder. RFID tag then transmits the unique identification number along with the data, if any, back to the reader. The communication happens through a radio link between the Tag and the Reader. Host computer or system then receives the data through the reader and manages the information flow.



# RFID

# Why RFID ?



## Advantages of RFID over Barcodes...

- No line of Sight
- Greater Data Storage
- Extended Read Range
- Multi Tag Identification
- Automated reading
- Multiple Read/ Write

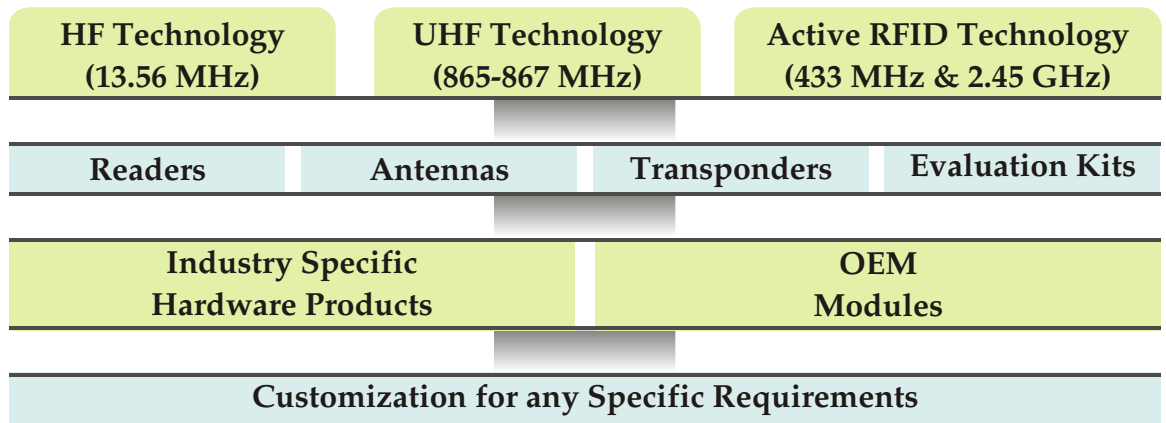
## Benefits

1. **Tracking Inventory:** By tracking the assets and goods real-time companies achieve better visibility in the overall supply chain and enables them to keep close track on inventory
2. **Reduced Labor cost:** With no line of sight reading, RFID does not require any human intervention. Its automated reading of tags can save huge on labor cost while making the processes much faster
3. **Better control:** The items which are tagged can inform about their status through out the supply chain. Thus by listening to them continuously we have better control of process as a whole.
4. **Refined Processes:** RFID can help you automate some of the process which are otherwise used to keep track of various stages the product or item passes through. With inbuilt storage capacity RFID labels can carry all the required information which helps in improving the processes as a whole
5. **Informed decision making:** By real time visibility of all your items and their detailed information RFID provides you with a tool which helps you make informed decisions about your processes.

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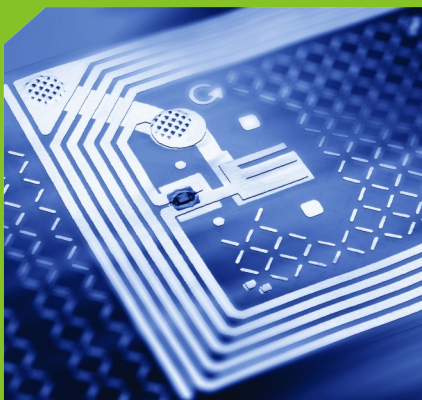
# Product Portfolio

## Product Portfolio



## Product Features

- Compatible to global standards
- Customizable framework
- Remotely upgradeable firmware
- Rugged packaging
- Easy to install
- Detailed documentation



# RFID



# Industry Application



## Various Application areas...

- Access control
- Inventory Tracking
- Asset Management
- Healthcare Management
- Library Management System
- Campus Management System
- Livestock Tracking
- Gas Cylinder Tracking
- Warehouse Management
- Time & Attendance Applications
- Security & Monitoring
- Supply Chain Management
- Document Tracking
- Vehicle Tracking

The list can go on and on.....

## Deployment cycle

### Understanding Physics

- Requirement Analysis
- Site assessment
- Hardware selection
- System design

### Running through the Pilot

- Defining test cases
- Hardware compatibility
- Component networking
- Redesigning

### Full Deployment

- System integration
- Scaling up
- Customer end testing
- User training

# RFID

## USEFUL LINKS

[www.rfidjournal.com](http://www.rfidjournal.com)



[www.morerfid.com](http://www.morerfid.com)



[en.wikipedia.org/wiki/rfid](http://en.wikipedia.org/wiki/rfid)



[www.autoidiabs.org](http://www.autoidiabs.org)



[www.rfidtribe.org](http://www.rfidtribe.org)



[www.epcglobalinc.org](http://www.epcglobalinc.org)



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