

## Difference between Barcode and RFID.



**Barcode label**



**RFID tag (label)**

## Difference between Barcode and RFID.(1/2)

### BARCODE

### RFID

#### EFFECTIVENESS

You read one code at a time and a line of sight between the code and scanner is required for reading

Multiple RFID tags are read simultaneously (up to 200 \ sec) and no line of sight is required for reading

#### EFFECTIVENESS

Labels are easily damaged. Dirt and other agents can prevent them from being read

Tags can be very strong. They are not susceptible to agents that prevent its reading.

## Difference between Barcode and RFID. (2/2)

### BARCODE

#### DATA CAPACITY

You can assign a very limited amount of data to it.

#### DATA FLEXIBILITY

The information is static and cannot be edited or updated

### RFID

They are equipped with internal memory and can be associated with a large amount of data

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## What advantages does RFID offer than the barcode (1/2)

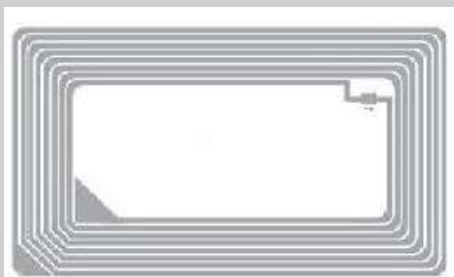


Compared to barcodes and other identification technologies, radio frequency technology offers several advantages:

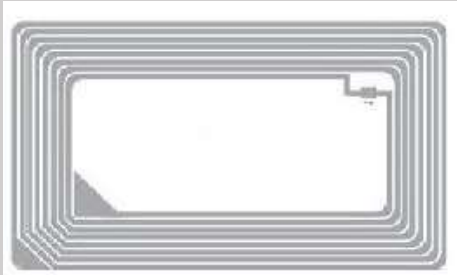
- Reading does not require direct contact
- Reading does not require line of sight and therefore there is no need for orientation towards the scanner.

Tags can

- be read simultaneously
- work in dirty or contaminated environments and withstand even very difficult conditions (environmental agents, thermal, chemical, mechanical stresses). They are therefore more durable.



## What advantages does RFID offer than the barcode (2/2)



- RFID tags contain more data than barcode and can be rewritten and updated with new information.
- RFID tags also operate immersed in a fluid, inside the object you want to identify or inside a container.
- The RFID tag contains a unique serial number that identifies every single product manufactured in the world, while the barcode only identifies the batch of a product, but not the single item.
- RFID tags are more expensive than barcodes, but the cost / benefit ratio is generally advantageous.

# Field of action of LeghornGroup



**PROTECTION:** We can protect your goods and assets with security seals and various products for tamper protection. The company can create bespoke, technical solutions to meet client's requirements.



**CONTROL:** We ensure goods and people can be monitored using security products and integrated complete hardware and software solutions that allow the operator to monitor and intervene in real time, even remotely.



**IDENTIFICATION:** LeghornGroup's understanding of authentication along with their innovative technical products and solutions allow users to uniquely and securely identify, goods, vehicles, containers, animals and people.



**TRACKING:** LeghornGroup's real time GPS tracking devices allow users to monitor location, status and movements of vehicles and people.



**RFID SOLUTIONS:** LeghornGroup also manufactures solutions for product authenticity; automatic identification systems using RFID to aid traceability of objects, animals and people, offering new and efficient operations to speed up the supply chain.



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