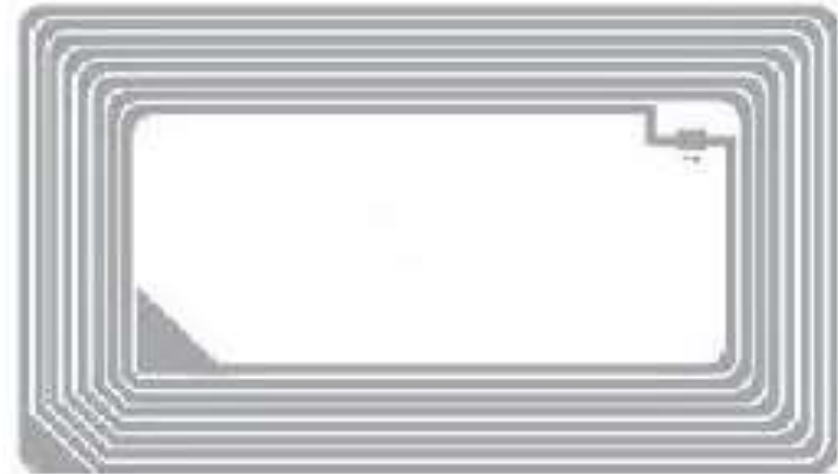


Difference between Barcode and RFID.



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

RFID

**DATA
CAPACITY**

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

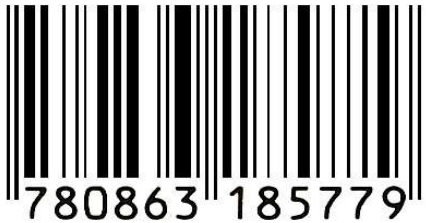
They are equipped with internal memory and can be associated with a large amount of data

**DATA
FLEXIBILITY**

The information is static and cannot be edited or updated

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

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

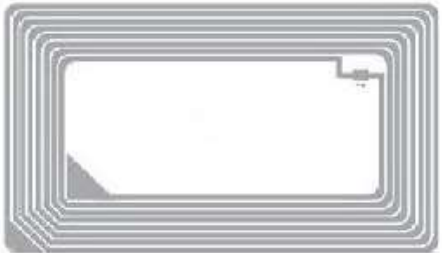


Compared to barcodes and other identification technologies, radio frequency technology offers several advantages:

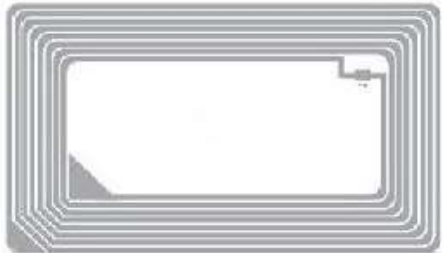
- Reading does not require direct contact
- Reading does not require line of sight and therefore there is no need for orientation towards the scanner.

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;



Protection - Control - Identification - Tracking - Rfid solutions

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