Difference between Barcode and RFID.

780863 185779

Barcode label

RFID tag (label)

Protection - Control - Identification - Tracking - RFID solutions - www.leghorngroup.com

LeghornGroup
1978

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.

LeghornGroup®
1978

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.

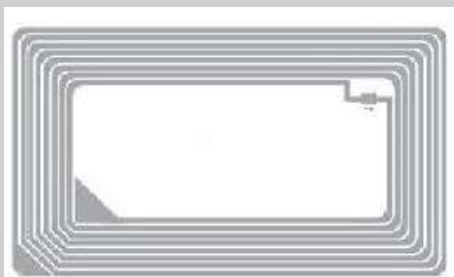# What advantages does RFID offerthan the barcode (1/2)

Compared to barcodes and other identification technologies, radio frequency technology offers several advantages:
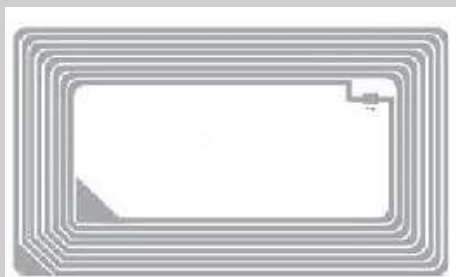- Reading does not require direct contact
- Reading does not require line of sight and therefore there is no need for orientation towards the scanner.

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 offerthan 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.**

LeghornGroup
1978

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.

LeghornGroup
1978

FINDUS@
info@leghorngroup.com

LeghornGroup S.r.l.
34/36 Via degli Arrotini - 57121 Livorno (LI) Italy
Tel: 0586 406376
www.leghorngroup.com info@leghorngroup.com

LeghornGroup – India
www.leghorngroup.in
LeghornGroup – Italy
www.leghorngroup.it
LeghornGroup – U.S.A.
www.leghorngroup.com
LeghornGroup – Belgium
www.leghorngroup.be
www.leghorngroup. nl

LeghornGroup – Czech Rep.
www.leghorngroup.cz
www.leghorngroup.pl
LeghornGroup – Greece
www.leghorngroup.gr
LeghornGroup – Rep. of
Moldova
www.leghorngroup.ro
LeghornGroup – España
www.leghorngroup.es

Protection - Control - Identification - Tracking - RFID solutions - www.leghorngroup.com

LeghornGroup ®
1978