

RFID TECHNOLOGY

WHAT IS RFID?

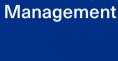
Radio-frequency identification (RFID) is an automated data capture technology that wirelessly identifies tagged objects.

POPULAR

Here's how it works.

USES

















OF RFID TECHNOLOGY

PARTS









PASSIVE TAGS

No internal power source

Attached to an object to carry information about it.

Longer read range but more expensive

- To select the right tag, consider ...

Good for real-time or sensor applications

Maintenance-free for years

Lower price point

• "Woken up" by the reader to transmit data

FREQUENCY CONDITIONS Functions LF - 125 or 134.2 kHz Extreme cold or heat **Memory** HF - 13.56 MHz

Direct sunlight

High impact

MOUNTING

ENVIRONMENTAL

TAGGED ITEM MATERIAL

Metal

Active - 2.45 GHz

UHF - 860 to 960 MHz

OPERATING

Plastic Mixed



Screw, Rivet

🔀 Welding, Cable Tie etc.



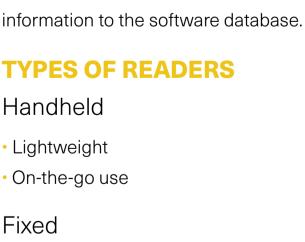
RFID Chip

Capacity

Footprint

Tagged Item

DATA BASE



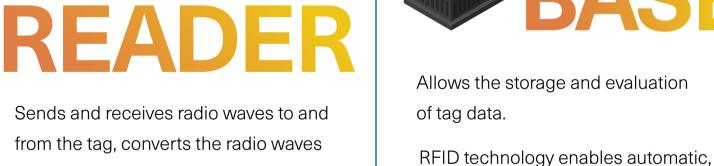
to a usable form of data, and passes that

Remains in one place Reads tags as they pass through a portal or doorway

WHY RFID?

METHOD Epoxy, glue or sticker

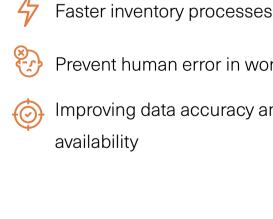




Prevent human error in workflows Improving data accuracy and availability

nearly instantaneously updates to

your software application to analyze



at a later time.

 RFID readers do not need line of sight (barcodes or QR codes do) Many assets can instantly be identified

fixed readers RFID functions in dirty, oily and other

ADVANTAGES

with a single scan

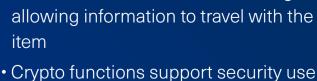
difficult environments Data can be written back to the tag, allowing information to travel with the

Reading can be totally automated with

cases

& LABOR COSTS In one use case, RFID technology turned a 2.5 hour, two-person process to a

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item



15-minute, one-person process.

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