

Radio Frequency Identification (RFID) technology uses wireless radio communications to transmit data which can then be used to uniquely identify objects or people, and is one of the fastest growing automatic data collection (ADC) technologies today.

RFID creates an automatic way to collect information about a product, place, time or transaction quickly, easily and without human error; and eradicates some of the environmental issues surrounding the use barcodes. In addition, RFID is more than just an ID code, it can be used as a data carrier, with information being written and updated to the tag on the fly.



Key benefits to consumers and businesses:

Productivity increase: goods and information are handled more efficiently

Versatile: ideally suited to the broadest range of industries

Real-time data: respond to new circumstances using real-time information

Security: validate information relating to an item enables increased security

Competitive Advantage: RFID is the key to increasing competitive advantage

Cost avoidance: costs of identifying items is substantially less than other methods

Stock control: faster replenishment, increased internal control, improved consumer experience

Improved visibility and traceability: sales improvements, process monitoring, tracking of shipments and assets

Accuracy: less errors, higher reliability as no human intervention needed for reading the data

RFID Technologies

Low Frequency (LF)



Low Frequency RFID technology by Texas Instruments operates on a frequency of 134.2kHz, half duplex technology. The benefits of the technology allow the tags to be made for just about any application with sufficient read range between 20cm to 250cm.

High Frequency (HF)



High Frequency RFID operate at a frequency of 13.56MHz for contactless read/write technology used for access control, asset management, electronic payments, and more. RFID technologies include; ISO15693 and ISO14443-A/B, Tag-it, i-code, and Mifare.

Ultra High Frequency (UHF)



Ultra High Frequency RFID technology is the newest member of our RFID product family. Our tags and readers conform to EPCGlobal Class1 Gen2 standards. UHF RFID operates between 920MHz to 960MHz and are suited to supply chain and logistics applications.

Long Range (LR)



Long range RFID technology is suited to vehicle fleet management, vehicle access and parking applications.

Long Range RFID can get a 10 meter read range on moving vehicles, uses compact card readers, and has simultaneous card identification.

RFID Readers



RFID readers come in various configurations dependant upon the location, environment, and scanning coverage required. RFID readers identify all tags within its reception area and then use built in intelligence to read and transmit the RFID tag data.

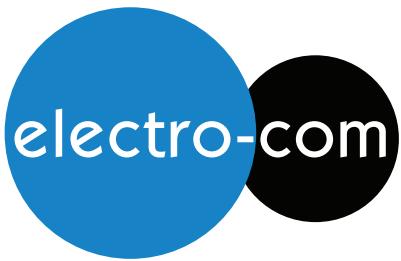
RFID Tags, Cards & Wristbands



Transponders, smartcards, keyfobs, wristbands and adhesive labels for RFID applications:

- High performance
- All frequencies
- On-metal solutions
- Custom encoding
- Customisable designs





RFID Applications



Access Control



- Authentication and validation of customers/staff
- Video surveillance - increased safety
- Door access control
- Vehicle access control
- Fast, Secure & Encrypted access
- Checking in and out of valuable assets
- Membership & rewards solutions
- Biometric access
- Time and attendance reporting
- Remote monitoring

Asset Management



- Fast wireless transactions
- Real-time data
- Increased reliability of data
- Increased efficiency
- High return on investment (ROI)
- Optimize asset use & maintenance
- Reducing demand for new assets
- Fast, Secure & Encrypted access
- Evaluating and monitoring assets
- Optimize field sales and service
- Libraries, ticketing, document management, and more.

Animal Identification



- Meet strict NLIS requirements
- Round up livestock more efficiently
- Manage feed and water
- Basic livestock health monitoring
- RFID Tags & readers
- LF 134.2kHz technology
- Industry leading technologies
- Biosecurity
- Ensure meat safety
- Increased product integrity
- Improved market access
- **Texas Instruments & Agrent modules**

Electronic Payment



- Contactless ePayment with credit and debit card
- Integration in vending and ticket machines, kiosk systems and charging stations.
- Retrofitting options
- EMV Level 1 certification
- ATM machines
- Vending machines
- Ticket machines
- Kiosk systems
- Charging stations
- ISO 14443 Smart Cards

Healthcare



- Patient identification
- Wandering patient solutions
- Pharmaceutical stock control
- Equipment asset management
- Door access control
- Fast, Secure & Encrypted data
- Pathology identification and document management
- RFID Tags, labels & readers

Supply Chain & Logistics



- Real time traceability
- Automate the supply chain
- Affordable for small and medium scale industries
- Reclaim competitive advantages
- Increase business efficiencies
- Identify problem areas in the supply chain
- Fast, Secure & Encrypted data
- Reduce product loss or shrinkage
- RFID Tags, labels & readers

Library Systems



- Position your library as modern and innovative
- Enhance the customer experience
- Increase product availability
- Increase library efficiencies
- Maintain inventory accuracies
- Reliability - decreased error rates
- Easy online book inventory
- Improve security - anti-theft system
- Faster, easier to use self-service
- Improved returns processing
- Improved OH&S - reduced handling

Ticketing



- Sports events, concerts, mass transit, travel visas, passports or other applications.
- Simplify ticket issue & validation
- Enable tickets at specific times
- Read remotely to increase throughput at entrances and gates
- Wristbands can serve as highly-visible, non-transferable tickets
- Reliably store and transfer data
- Real time data to assist staff in managing patrons
- Improve your bottom line
- Improve security & convenience