



ASSET TRACKER

RFID ASSET TRACKING SYSTEM



SOLUTION OVERVIEW

iQ Asset Tracker is a cost effective RFID asset tracking solution designed to provide real-time location and status visibility of all assets. Assets are tagged with an appropriate UHF Gen 2 RFID tag and fixed RFID infrastructure is used to automatically check assets in and out. Handheld readers can also be used in conjunction to perform a range of logistical processes.

BENEFITS

- Complete location and status visibility of assets
- Automatically check assets in and out
- Faster, less labour intensive stock take processes
- Accurate data
- Find misplaced items easily
- Actionable electronic records
- Assist in the prevention of theft

RFID HARDWARE

iQ Asset Tracker is designed to work with both fixed RFID infrastructure and mobile RFID readers. The mobile readers can be an integrated all in one device including a touch screen running a Windows application, or a Bluetooth RFID reader that is tethered to an Android tablet or smartphone. The integrated mobile reader has a camera, GPS and barcode scanner options with a touch screen and external keypad. The Bluetooth tethered device is suitable for business that already utilise Windows or Android PDAs, tablets, or smartphones.



For indoor applications fixed RFID readers can be installed in the ceilings, above doorways or in other key locations. For outdoor applications, fixed RFID infrastructure is put together in an all in one IP rated enclosure. Mounted on a bollard or attached to existing infrastructure, it can be powered via Ethernet or over 240v.



RFID TAGS

RFID transponders are available in multiple form factors – from paper faced labels to ruggedized hard tags. In addition, there are special tag designs available for metallic items. These tags are used to attach to assets and can be read by a handheld reader 1-10m away.

Human readable or barcode data can also be printed to the outside of tags, allowing for easy deployment and data redundancy.



PRODUCT FEATURES

- Stocktakes
- Receive orders
- Pick/ dispatch work orders
- Receive returned items
- Update service records
- Search for items

iQ Asset tracker's most common application areas include:

- Offices
- Warehousing
- Manufacturing
- Data Centres
- Healthcare
- Hiring supplies
- Oil, gas and mining

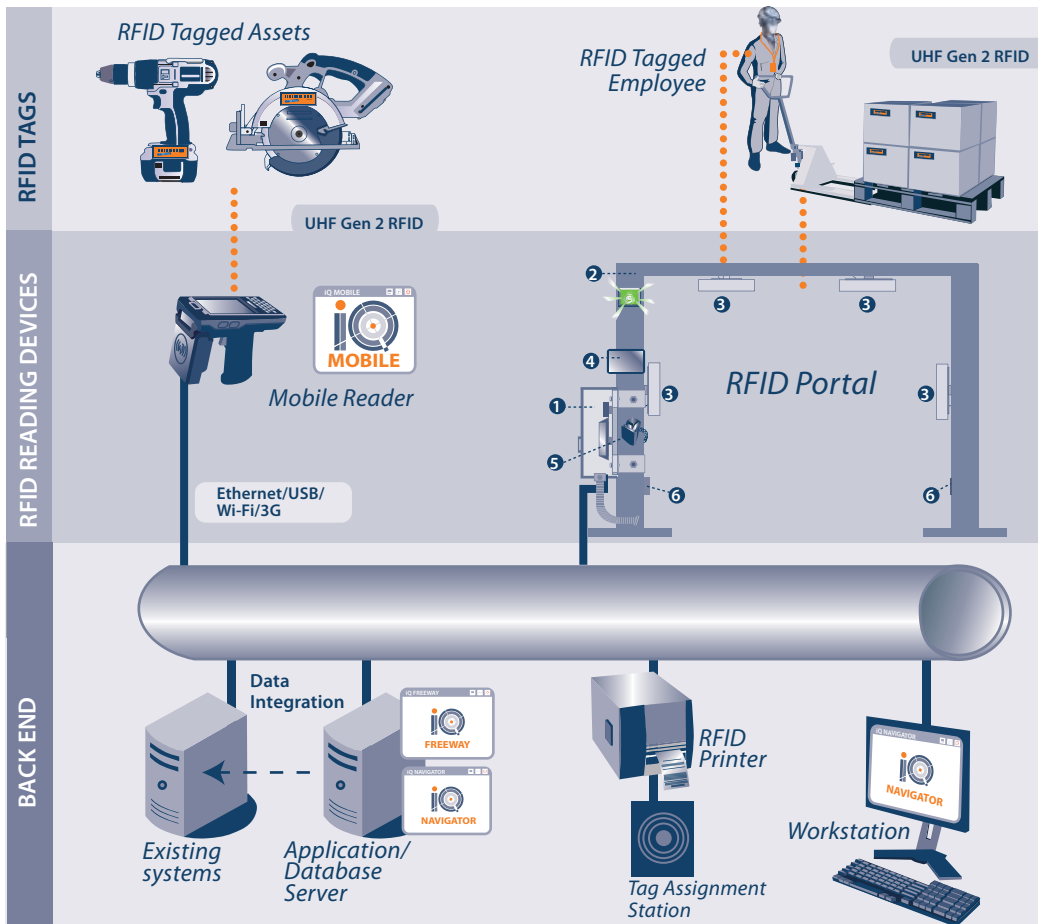
Common Asset types:

- IT Assets
- Furniture
- Returnable Transport Items
- Loan or Hire items
- Serviceable field assets
- Tools
- Manufacturing equipment

RFID systems have a number of benefits over manual or bar-coded systems:

- No line of sight required
- Multiple tagged items can be read simultaneously
- Longer range operation – up to 5m
- RFID tags can be read when dusty/dirty
- More automated process resulting in less human error

SYSTEM ARCHITECTURE



RFID PORTAL COMPONENTS

- 1 Enclosure with RFID Reader and associated hardware.
- 2 Audible/Visual Alerts
- 3 RFID antennas
- 4 Tablet PC for RFID read verification
- 5 Teathered Bluetooth RFID Reader for transaction adjustment
- 6 Direction detecting reader

ADDITIONAL MODULES

External visibility with GPS tags

- WiFi and 3G options
- GPS
- Ability to read racks/bay tags for automated location updating

Forklift and other vehicle mounted readers

- Real time cargo locating
- Delivery verification
- Reusable tags

SOFTWARE

iQ NAVIGATOR

iQ Navigator is a stand-alone asset tracking system with an SQL database and web front end. Designed using Microsoft.Net, it is the backbone of the system. All interfaces and peripherals are linked to the iQ Database.

iQ Navigator and the iQ Database can be hosted locally or in the cloud.



FEATURES

- Asset Cataloguing - Create assets on the system; enter the tag identifier, a detailed description, search terms, photo, asset type, asset group & subgroup(s), location and assign security access levels.
- Administration - Create users and security levels, asset types, groups and subgroups, locations and sub locations, alerts, reports and system settings.
- Asset Search - Search for an asset on the system, view the status and location and any maintenance tasks scheduled.
- Detailed Reporting - The iQ system allows for detailed reports on the use, location, movement and maintenance of items as well as system audit reports.
- Web Management Console - All other functionality can be accessed via an internet browser on any PC connected to the LAN.
- Integration - The iQ Database can be integrated with 3rd party systems.

iQ MOBILE

iQ Mobile is a Windows Mobile software application designed for the Integrated Mobile Reader and synchronises with the iQ Database. The device software has an intuitive interface which allows operators to perform stocktakes, search for tags, pick and dispatch and more.

The mobile reader can communicate with the iQ Database via Ethernet, USB Sync, Wi-Fi or cellular.



FEATURES

- Online and Offline mode
- Adjustable antenna power levels
- Inventory - read all tagged assets in a selected location
- Search for a tagged asset- visual and audible notification based on signal strength
- Pick & Dispatch orders
- Write Tags
- Add assets- read tag and add asset to the database
- Add locations
- Add employees
- Read barcodes as well as tags for all the above
- Synchronise in Offline mode (everything or just inventory)