# FS1000 Operational Overview

The FS1000 reader provides all networking needs in one; it can be configured as an externally powered LAN reader.

It detects and decodes RFID (radio frequency identification) signals from Fortecho Solutions' range of active RFID tags.

Dual Antenna technology provides RF redundancy coverage improving the RF field giving better wireless range.

This reader is ideally suited for use in systems that track and secure tagged assets such as artwork, containers, plant and machinery or high value assets, or for monitoring personnel in health and safety or security applications. The FS1000 readers can be used to create RFID networks within buildings. For more robust and rigorous uses they can be deployed externally across large complexes, such as container ports, warehouses or external yards if suitably protected.

The tag data and reader status information is fed into the end-user application enabling complete management of all tagged assets and the automation of business decisions about them based on accurate and near real-time knowledge of their location and condition.

The FS1000 can be operated in Autopoll or Store Poll modes.

In Autopoll the reader will return the tag data of any tags in view continuously sending IP packets when a tag is read.

A unique feature of the FS1000 is its on-board real time clock, when in Store Mode each tag event is recorded time stamped and logged in the reader's internal memory.

The FS1000 can hold the information for up to 1000 individual tags: this can be downloaded in a single IP packet upon request. This feature dramatically reduces IP traffic in high tag density deployments.

In the event that the user needs to be instantly made aware of any event alarms such as tag arrival, tag leaving, tag in tamper, tag in motion etc. the FS1000 supports inbuilt business rules to override the Store Poll settings