

EX-5500 – LF Exciter with internal Wi-Fi Receiver

The AeroScout EX5500 Exciter is a component of the AeroScout suite of enterprise visibility solutions that enables location-based applications. The EX5500 extends the AeroScout suite to provide robust and sophisticated RFID detection capabilities, using the same AeroScout tags that can also be accurately located in real time by the AeroScout system.

The EX5100 triggers AeroScout's tags as they pass through a choke point or when they are located near the Exciter and the tags in turn transmit Wi-Fi message to Internal Receivers or compatible Access Points in range. The Exciter can activate/deactivate the tags, program the tags or even cause tag reaction such as blinking. This provides instant acknowledgment that a tagged asset passed through a gate, doorway or some other well-defined area.

The EX5500 Exciter has built in Wi-Fi receiver which enables it to receive AeroScout tag messages. The Exciter also has an embedded Wi-Fi transmitter which is utilized by the Exciter for self-health monitoring. These capabilities make the Exciter ideal for security applications.

The detection capabilities of the EX5500, combined with the location features of the AeroScout Visibility System, make the AeroScout suite the most sophisticated enterprise visibility solution for a wide variety of industries.

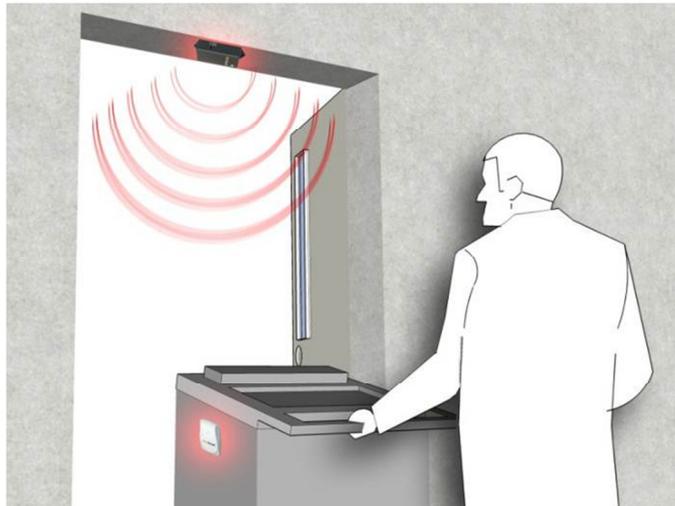


Figure 1: EX5100 positioned at choke point triggering a tag

RFID detection of AeroScout Tags

The EX5500 Exciter triggers Tags to transmit as they pass through a defined area, within a range of up to 6.5 meters (21.3 feet). This is typically enough to cover door or gate areas. The EX5500 also supports a chained configuration, thus enabling an increased RFID detection range for larger areas.

Tag behavior modification:

The EX5500 Exciter can wirelessly activate and deactivate Tags. Tag battery life can be extended by switching them off when they leave a defined tracking area through a gate or doorway. The Exciter can also be configured to change the tag transmission rate temporarily or indefinitely to accommodate different usage patterns in different environments.



Message Programming functions

The EX5500 Exciter can store messages on the Tag for subsequent transmission.

The message transmission can subsequently be triggered by other EX5500s, enabling sophisticated process control functions.

The EX5500 Exciter can trigger a Tag to:

- Transmit up to 15 bytes of data sent to it by the EX5500
- Transmit one of 15 pre-stored messages
- Store up to 15 bytes of data sent to it by the EX5500

Network connectivity

The EX5500 Exciter enables remote programming, monitoring, and software updates by the AeroScout Engine. In addition, the EX5500 can work in an offline mode, thus eliminating the need for a physical network connection. In the offline mode however, remote configuration and monitoring is not available.