

EX3210 Tag Exciter



- Real-time chokepoint detection for enhanced location and identification of assets and personnel
- Trigger events and alerts
- Precise visibility of business processes
- Leverage existing Wi-Fi
- Supports offline condition monitoring

The Extronics Advance EX3210 Exciters provide robust and sophisticated RFID detection capabilities, using Extronics Advance Tags that can be accurately located in real time by the system. Exciters transmit low frequency (LF) signals to trigger active RFID Tags as they pass through a chokepoint or as they approach the Exciter. The Tags in turn transmit messages to compatible Access Points in the Tag's range. This provides an instant acknowledgment of an event confirming that a tagged asset has passed through a gate, doorway, or some other well-defined area. These advanced detection capabilities have proven usability, dependability, and scalability, as well as flexibility to enable a wide variety of valuable applications for many industries to streamline business processes and improve operational efficiency.

Automatic inventory management

Logistics organisations can update inventory records by automatically determining which assets are within the respective defined areas, thus ensuring real-time knowledge of inventory levels without manual checks or barcode scanning.

Process control

Manufacturing companies can track the location of equipment, carriers, and even the work-in-process (WIP) inventory during a production cycle. This provides a real-time view of production items, both in terms of type and quantity, which have progressed through each step in the process, thus streamlining the manufacturing operations.

Security applications

Exciters can be installed to improve the safety level of employees and customers. When installed at the entrances of restricted areas, Exciters trigger alerts if unauthorised persons attempt to enter. For example, instant notifications can be sent if someone comes in proximity of a restricted area on an oil rig.

Logistics real-time alerts

Based on the locations of assets, organizations across industries can use Exciters to trigger automated events and alerts. For example, in a shipping yard, notifications can be initiated when vehicles pass through its gates, and enter or exit a specific dock.

Theft prevention

Organizations with expensive and mission-critical equipment can Tag valuable assets that are intended to remain within a specified area. The AeroScout system can track the location of such tagged assets and trigger an alert when they pass through an exit point or enter a restricted area.



Key features

- **Tag behaviour modification:** Tag behaviour can be changed (activated or deactivated) when it comes in the proximity of an Exciter. For example, a Tag can be switched off when it leaves a defined area, thus extending its battery life. In addition, when the Tag enters a new physical space, its transmission rate can be modified either for a temporary period or for an indefinite time.
- **Message programming functions:** Exciters have the ability to store messages on the Tag for subsequent transmission. The message transmission can be triggered by other Exciters, enabling sophisticated process control functions.
- **Multiple cabling options:** Exciters can support Power over Ethernet (PoE) or standard Ethernet to enable centralized programming, monitoring and updates by the AeroScout Engine. In addition, Exciters can work in an offline mode disconnected from the network, thus eliminating the need for a physical network feed. In the offline mode, remote configuration and monitoring is not enabled.
- **Chaining:** in an area where the required LF coverage exceeds the capacity of one Exciter, multiple Exciters can be connected together for complete and precise coverage of areas such as large gates and racks.
- **Specific location detection:** Exciters enable enterprises to locate assets precisely to a specific shelf, rack, room, bay or work cell. They can also assist in difficult searches for specific assets by making the Tag in question identify itself with a specific LED indication.

Specification

Certification	Radio FCC Part 15, sub-part C class B, sub-part B; EN 300-330, EN 301-489; RSS210 (Canada) Safety: CE, cTUVus (EN 60950) US Patents 7, 403, 108 B2
Range	Adjustable up to 3m (9.84ft)
Dimensions	150 x 65 x 25mm (5.9 x 2.6 x 1in)
Weight	143g (4.9oz)
Network interface	Ethernet (RJ-45)
Power	Input voltage: 48VDC PoE (802.3af) – 48VDC Maximum power consumption: 6W
Environmental	Operating temperature: -20°C to +60°C (-4°F to 140°F) Humidity: 0 to 95%, non-condensing
LF channel	125kHz Field intensity limits: 37.3dBµA/m at 10m (ETSI) Propagation limits: 21.8dBµV/m at 300m (FCC) Modulation: ASK