

Advantrack

Overhead beam-steering system for real-time inventory and location

Overview

Overhead reader and antenna units that continuously scan the floor below, giving a live inventory of every tagged item in the space plus its approximate location. Beam steering raises read rates and lets the system tell where an item sits, which is what turns a stock count into a find-it-now tool.



Technical specifications

Operating frequency	FCC 902-928 MHz; ETSI 865.6-867.6 MHz; Chile and Peru 916-928 MHz by channel selection
Detection height	Maximum 4 m
Radiation pattern	Multiple beam (beam steering)
Beam width	45 deg / 45 deg
Polarisation	Circular
Reader power	Recommended maximum 30 dBm
Radiated power	2 W ERP, 3.2 W EIRP
Transponder protocol	EPC Class 1 Gen2
Interface	Ethernet and USB
Connectors	SMA
Operating system	Linux, fully open
Temperature range	-20 °C to +50 °C
Dimensions	460 x 460 x 80 mm suspension mount; 460 x 460 x 121.5 mm ceiling mount

Common uses

- Persistent store inventory
- Fast product location on the floor
- Misplaced item detection
- Small warehouse and stockroom tracking
- Hospital area asset tracking

Use case: Always-on floor inventory

