

Ceiling antenna for EAS, logistics and statistics



The new patented RAKO RFID HoverGuard is an UHF antenna combining EAS and RFID functions in one system. This system works with multiple reusable UHF hard tags, sew in tags or hang tags using EPC Gen2 EAS chips.

By using this antenna it is no longer necessary to install two technologies for using EAS and RFID functions in one single shop.

General advantages:

- combination of EAS and RFID in one system
- open entrance area in the shop (no antennas on the floor)
- continuous detection field
- plug and play installation
- possible application at several positions in the shop (entrance area, backdoors, changing rooms)
- special EAS development in corporation with NXP

Advantages of RFID application:

- reduction of out of stock situations
- permanent inventory by using handheld readers in the shop
- possibility of statistics of EAS alarms and changing room turnover
- free from interference by systems of other shops
- very quick UHF detection by NXP chip technology (Gen2, EAS)

HoverGuard datasheet

Mechanical Specifications

Antenna Dimensions
Antenna Weight
Frequency
Material
Color

Antenna

940 x 296 x 46 mm
ca. 4000 g
EU Version: 865-868 MHz, US Version: 902- 928 MHz
Housing: ABS
light grey

Electrical Specifications

Operating Frequency
Operating Detection Height
Operating Detection Ground Width
Operating Temperature
Alarm Light
Alarm Audio Signal
Radiation angle
Alarm function
NXP EAS bit ON (can be adjusted to
Power supply
Energy Consumption

Antenna, Reader and Controller Unit

EU Version: 865-868 MHz, US Version: 902-928 MHz
2 – 3,5 m (recommended)
up to 3 m
-20°C to 55°C
Light Emitting Diode (LED)
Buzzer
20° (narrow direction) / 80° (broad direction)
Preset: System gives audio alarm and light by detection of
different EAS data models)
24 V/DC (Options: Power over ethernet/RS 485)
6 W max., 1,5 W stand by, 0,5 W sleep modus, <5µA power
down
max. 0,5 W
ISO 18000-6C, EPC Class1 Gen2
yes
RS485, Ethernet
EN 50364, EN 301 489, EN 302 208 (LBT), EN 300
220, FCC Part 15

Reader Power
Transponder Protocoll Standard
Anticollision
Interface
Conformity

Product liability: The information given here is true, represents our best knowledge and is based not only on laboratory work but also on field experience.

However, because of numerous factors affecting results, we offer this information without guarantee and no patent liability is assumed.

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