CATALYST RFID PEDESTAL

Catalyst RFID Pedestal is a loss prevention system based on RFID UHF. It detects the tagged items that pass between the pedestals, verifies if those items have been paid and triggers an acoustic and/or visual alarm accordingly.

Catalyst RFID Pedestal can be set up with **four different configurations** for validating whether an item has been paid for:

- Checks the EAS bit of the NXP chip

- Checks if the EPC code includes a pre-defined pattern that signals that the product has or not been paid (otherwise re-written at till point)

- Checks against the inventory database to see if the product has been paid for

- Checks for bulk theft: an alarm will trigger if a certain number of tags are read in a certain time period (e.g. a few seconds).

Catalyst RFID Pedestal comprises a master unit and a slave unit:

- The **master unit** has an integrated reader, a controller, an alarm, a visual alarm indicator and two directive antennas.

- The **slave unit** comprises two directive antennas.

Catalyst RFID Pedestal works with any hard and soft Gen2 RFID UHF tags.

It also features **configurable parameters** to minimizing false alarms
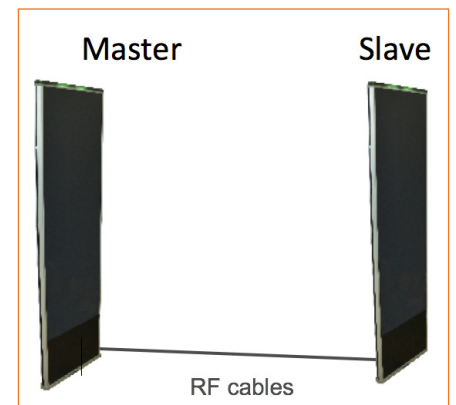
Product Benefits and Applications:

Benefits:

- Combined loss-prevention and RFID in one system, reducing labelling costs

- Improved product aesthetics, since tags can be embedded in labels (for apparel)

- Shrinkage reduction

- Provides data to detect which products suffer more theft attempts and enables the customer to manage inventory file more effectively

- Product details of tags triggering an alarm can be sent immediately via email or to an app to alert security or store management

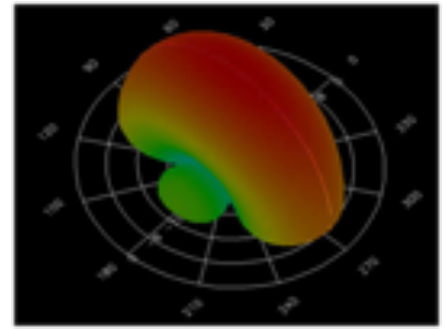- Plug and play installation

Applications:

- Loss prevention at retail stores

- Loss prevention at warehouses

- Product tracking at backdoors, entrances, corridors, etc.

Master   Slave

RF cables

(available in either black or white)

Radiation Pattern:

To minimize the detection of products inside the store, Catalyst RFID Pedestal has a radiation diagram wide in one direction and narrow in the other (perpendicular) direction

Specifications:

Operating Frequency EU Version	865-868 MHz
Operating Frequency US Version	902- 928 MHz
Detection distance	Up to 4m
Alarm Light	Light Emitting Diode (LED)
Alarm Audio	Signal Buzzer
Radiation angle	Fan shape
40° / 90°	20kg
-15 dB sidelobes	High grade acrylic
Alarm function Preset	System gives audio alarm and light by detection of NXP EAS bit ON, or by a specific bit set in the EPC code (can be adjusted to different EAS data models)
Power supply	Power over Ethernet
Optional: External power supply	
Energy Consumption	6 W max., 1,5 W stand by, 0,5 W sleep modus, <5µA power down
Reader Power	max. 31,5 dBm
Radiated power	2 W ERP, 3.2 W EIRP
Anticollision	Yes
Interface	RS485, Ethernet
Transponder Protocol Standard	ISO 18000-6C
EPC Class1 Gen2	
Conformity	EN 50364, EN 301 489, EN 302 208 (LBT), EN 300 220
Temperature range	-20°C to +55°C
Dimensions	1550 mm x 460 mm x 45 mm
Material Housing	Aluminum and plastic
Color	Off white
Human exposure	EN 50364
EMC	EN 301 489, EN 300 220
Air Interface (EU)	EN 302 208 v1.2 (DRM)