

Catalyst RFID Mat

Benefits:

- Excellent performance
- Non visible antennas
- Easy to install
- Easy connection to RFID reader

Applications:

- Retail loss prevention
- Item tracking between backroom and sales floor
- Small warehouses
- People and object tracking in general at doors or corridors

Introduction

Catalyst Mat integrates four high performance RFID UHF antennas inside a floor mat for tracking people or objects. It is able to withstand the weight of 3-4 people whilst maintaining the functionality of the antennas.

The radiation pattern makes this system ideal for RFID applications such as loss prevention systems, portals, corridors, doors, etc.

For loss prevention, the mat is supplied with a separate reader and alarm. The mat antennae feed in to this combined unit at a distance of up to 5m.

The material and colour of the mat can be selected under some limitations.

Options

Catalyst Mat can be supplied with textured surface or without it. When supplied without the textured surface, a conventional rug can be placed over the mat.



Technical Specifications

Operating Frequency EU Version	865-868 MHz (ETSI EN 302 208)
Operating Frequency US Version	902-928 MHz (FCC part 15)
Operating Detection distance	Up to 3 metres
Number of antennas	4
Radiation pattern	Fan beam
Gain of each antenna	6 dBi
Beam width of each antenna	40°/90°
Polarisation	Circular
Cables and connectors	4 cables, with SMA female connectors
Colour	Several colours available
Texture	Rough or smooth
Available sizes	1000mm x 750mm x 23mm (4 antennas) 1300mm x 800mm x 23mm (4 antennas) 1600mm x 900mm x 23mm (4 antennas)
Weight	Small size: 6 kg Medium size: 9 kg Large size: 12 kg
Temperature range	-20°C to +55°C