



## Antena Impinj MatchBox

Impinj's MatchBox reader antenna is the ideal antenna for item level applications that require reading tags at distances up to 5 cm. Typical applications include access control, ticketing, document control, high-speed encoding stations, packaging lines, and any situation that requires high reliability in a constrained read zone.

The MatchBox antenna, by virtue of its optimized near-field performance, is virtually immune to the effects of liquids, powders, packaging, etc. The MatchBox antenna works for applications where standard antennas may fail, such as membership cards, blister packs, pill bottles, liquid-filled containers, and even tags floating in water.



### Main features of the Impinj Matchbox RAIN RFID antenna

- Ideal for short-range singulation of individual UHF tags (Strong near-field performance enables reading item tags 0–5 cm away)
- Near-field design penetrates liquids and most metals
- Perfect for use with very small tag inlays featuring near field antennas
- Small size: 73 mm x 33 mm x 12 mm
- Confined read zone to minimize stray reads



# Technical Description

## Functionality & Operation

|              |                    |
|--------------|--------------------|
| Frequency    | UHF: 865 - 956 MHz |
| Polarization | linear             |
| Connectors   | SMA female         |

## Optical

|                     |             |
|---------------------|-------------|
| Depth of scan field | 0 cm ~ 5 cm |
|---------------------|-------------|

## Electrical

|                    |        |
|--------------------|--------|
| Gain               | -20dBi |
| Return loss (VSWR) | 1.25:1 |
| Nominal impedance  | 50ohm  |

## Mechanical

|              |                                        |
|--------------|----------------------------------------|
| Dimensions   | Width: 33mm, Height: 73mm Length: 12mm |
| Weight       | 18g                                    |
| Color        | black                                  |
| Body housing | ABS plastic                            |

## Environment

|                                     |              |
|-------------------------------------|--------------|
| Electrical static discharge         | ±2kV contact |
| Ingress protection                  | IP54         |
| Operating temperature               | 0 to 40°C    |
| Operating humidity (non-condensing) | 5 to 95%     |

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