

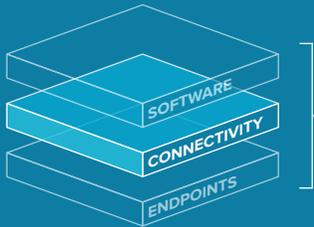
MatchBox RAIN RFID Antenna

The Impinj Matchbox antenna is a very small RAIN RFID antenna that connects to an Impinj Speedway reader to identify tagged items in a tight-proximity read zone



Small Solution with Big Results

As part of a custom solution built with a Speedway reader, the MatchBox antenna is ideal for tight-proximity spaces that need exceptional control in a small zone. The antenna is unobtrusive and can monitor items within cabinets or other small enclosures.



The Impinj Platform includes Connectivity Devices



MatchBox Benefits

Discreet Aesthetics

Diminutive design easily fits behind displays to provide protection for high-value items

Bi-directional, Short-range Coverage

Tight, dual-sided read zone coverage and flexible mounting options

Multi-region Operation

Broadband support for optimal performance globally

Key Features

➤ Compact Design

Compact installation for space-constrained areas; mounts easily into confined spaces

➤ Application Flexibility

Adaptable to situations that require high reliability with a constrained read zone from 0-5 cm

➤ Broadband Support

Performs over a wide range of frequencies that can be used in multiple regions

Use Cases

🔍 Loss Prevention

Protect high-value items with the tiny form factor that easily fits behind displays



Portable Readers

Antennas can be embedded in small, portable devices



RAIN RFID Printers

Enable accurate RAIN RFID label printer encoding for file folders, apparel tags, data storage tapes, lab specimens, and much more



Antenna Family Overview

The Impinj family of antennas connect to Impinj Speedway readers and support custom solution development for retail, supply chain and logistics, healthcare, and many other industries. The antennas come in an assortment of sizes and enclosures to support proximity, specialized, and distance read zones.

	PROXIMITY ANTENNAS	
Product Details	Matchbox	Mini-Guardrail
Dimensions	7.3 x 3.3 x 1.1 cm (with 20 cm (8 in) pigtail)	13 x 7 x 2 cm
Weight	.04 lbs / .02 kgs	.25 lbs / .11 kgs
Connectors	SMA female (Requires accessory cable to connect to reader's RP-TNC connector)	SMA female (Requires accessory cable to connect to reader's RP-TNC connector)
Mounting options	2 holes: 4 mm diameter, spaced 62 mm	4 holes for #10 or M5 screws spaced 120.0 (L)mm x 50.0 (W) mm
IP rating	IP54 indoor use only	IP41 indoor use only
Environment	Operating Temp: 0°C to 40°C (32°F to 104°F) Humidity: 5% to 95% relative, non-condensing	Operating Temp: 0°C to 40°C (32°F to 104°F) Humidity: 5% to 95% relative, non-condensing
Frequency range	865 to 956 MHz broadband for use in all regions	860 to 960 MHz broadband for use in all regions
Polarization	Linear (parallel to short axis)	Linear (parallel to short axis)
Far-field gain	-20 dBi	-20 dBi
VSWR	1.25:1 (center of frequency range)	1.25:1 (center of band)
Impedance	50 ohms	50 ohms

Ready to discuss how Impinj can help your business?

[CONTACT US/WWW.IMPINJ.COM](http://www.impinj.com)

Impinj (NASDAQ: PI) wirelessly connects billions of everyday items such as apparel, medical supplies, and automobile parts to consumer and business applications such as inventory management, patient safety, and asset tracking. The Impinj platform uses RAIN RFID to deliver timely information about these items to the digital world, thereby enabling the Internet of Things.