

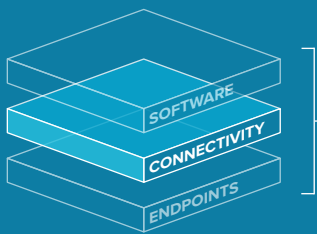
# Guardwall RAIN RFID Antenna

Deployed in pairs, Impinj Guardwall antennas connect to an Impinj Speedway reader to provide a tightly-controlled read zone that integrates into conveyor systems



## Focused Read Range For Distinct Scenarios

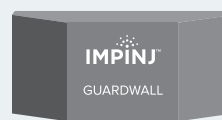
As part of a custom solution built with an Impinj Speedway reader, Guardwall antennas monitor items, packages, or cases moving on conveyor systems. Their high-capacity read range is designed to maximize performance in highly-specific read zones.



*The Impinj Platform includes Connectivity Devices*

## Key Features

- **Matched-Pair Design**  
Pair two Guardwall antennas together to create a tightly-controlled read zone and intense RF field to penetrate boxes and cases of items
- **Tight Read Zone Control**  
Designed to easily integrate into conveyor systems
- **Frequency Range**  
FCC and ETSI versions available



## Guardwall Benefits

### Narrow Field of View

Unparalleled read zone intensity and focus in controlled zone delivers strong performance




### Maximum Intensity

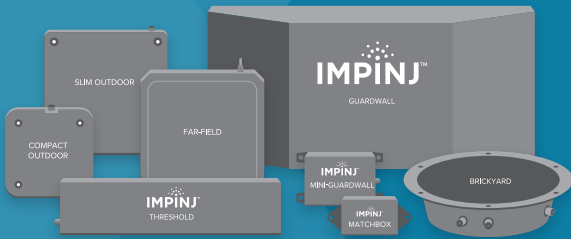
Penetrates deep into packed cases with a small, tightly-controlled read zone

### Region-specific Operation

Optimized performance in FCC- and ETSI-supported regions

## Use Cases

-  **Conveyor Systems**  
Designed to be utilized in a pair for penetrating and verifying packed goods moving on a conveyor belt
-  **Logistics Optimization**  
Automate the tracking and movement of goods and assets to gain item-level insights that identify bottlenecks and traffic patterns, so you can create an efficient system that keeps shipments moving
-  **Carton Contents Verification**  
Accurately verify tagged items in cartons and identify which contents are in which carton



## 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.

Product Details	SPECIALIZED ANTENNAS		
	Guardwall	Threshold	Brickyard
Dimensions	70 x 40 x 7.3 cm	46 x 9 x 2 cm	29.5 x 6 cm (2.4m integrated cable)
Weight	11 lbs / 5 kgs	1.6 lbs / .71 kgs	2 lbs / .91 kgs
Connectors	2X 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)	Reverse polarized TNC male connector
Mounting options	Brackets sold separately	Recommended to be recessed within a cable mat	3 mounting holes for tabletop or surface mounting; 6 mounting holes for mounting under surface
IP rating	IP 51 indoor use only	indoor and outdoor	IP 51 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: -25°C to 55°C (-13°F to 131°F) Humidity: 5% to 95% relative, non-condensing	Operating Temp: -20°C to 55°C (-4°F to 131°F) Storage Temp: -40°C to 85°C (-40°F to 185°F) Humidity: 5% to 95% relative, non-condensing
Frequency range	865-868 MHz 902-928 MHz bands	865-868 MHz 902-928 MHz bands	865-868 MHz 902-928 MHz 952-954 MHz bands (country-specific)
Polarization	RHCP & LHCP	Linear (parallel to short axis)	Near-field magnetic coupling
Far-field gain	6 dBi	5 dBi	6 dBi max
VSWR	1.5:1	ETSI: 1.5:1 FCC: 2:1	1.43:1
Impedance	50 ohms	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.