

IMPINJ[®]

FIXED READERS

Impinj Speedway RAIN RFID Readers

Available with 1, 2, or 4 antenna ports, Impinj Speedway readers are high-performance RAIN RFID fixed readers that deliver the flexibility and reliability necessary to provide effective item visibility.



RAIN RFID Readers for Flexible Solution Development

With the largest installed base of fixed readers across a diverse range of applications, Impinj Speedway readers deliver proven performance with a choice of different readers to match your solution specifications.



Key Features

- **Impinj Autopilot Technology**
Automatically optimizes the reader's operation for its environment
- **Flexible Reader Specifications**
Enables reader selection based on solution requirements, by offering a range of reader specifications including support for up to 32 antennas
- **Rich Peripheral and Accessory Support**
Provides flexibility when designing a RAIN solution for a specific use case or environment

Impinj Speedway Benefits

Flexibility for Effective Item Visibility

Multiple readers with different specifications meet different solution requirements and price points




High Performance

Maintain high read rates regardless of RF noise or interference by leveraging patented Impinj Autopilot capability that automatically optimizes performance

Proven Reliability

The largest installed base of fixed readers across a diverse range of applications

Use Cases

-  **Inventory Management**
Ensure supplies are always in stock, get accurate information about the availability and consumption of materials
-  **Asset Tracking**
Easily track returnable, reusable assets for reduced errors and increased efficiency
-  **Supply Chain Automation**
Leverage accurate, automated, high-speed systems to enable full visibility and control



Impinj RAIN RFID Readers Overview

Impinj readers are edge devices that enable bidirectional, wireless communications between applications and everyday items. Read, write, and authenticate RAIN endpoints or tagged items. Impinj fixed readers offer flexible implementation to meet your unique needs.

Impinj Fixed Reader Portfolio

				
	R700	R420	R220	R120
Air interface protocol	RAIN RFID / ISO 18000-63 and EPCglobal Gen2v2 compliant			
Antenna ports	4	4	2	1
Read zones (max)	32	32	2	8
Read rate (max per-second)	1,100	1,100	200	200
Transmit power (max, dBm)	33	32.5	32.5	30
Receive sensitivity (dBm)	-92	-84	-84	-84
Processor speed (GHz)	1 (Dual-core)	0.4 (Single core)	0.4 (Single core)	0.4 (Single core)
Random-access memory (MB)	1,024	256	256	256
Custom-application partition (CAP) size (MB)	128	32	32	32
Impinj IoT device interface	✓			
Support for USB peripherals (slots)	3	1	1	1
General-purpose input/output (GPIO) connector	Integrated	Accessory	Accessory	Accessory
Gigabit Ethernet network connectivity	✓			
Power Sources	802.3af PoE/802.3at PoE+	All regions: AC-DC adapter All regions except EU2: IEEE 802.3af PoE EU2: IEEE 802.3at PoE+		

Impinj product performance is based on Impinj's modeling and test data, actual results may vary. For a list of supported regions and geographies please go to: www.impinj.com/supported_regions.

Ready to discuss how Impinj can help your business?

CONTACT US

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.