IMPINJ®
SPEEDWAY®

Impinj Speedway RAIN RFID Readers

Impinj Speedway readers are enterprise-class fixed readers with the performance, quality, and reliability necessary for maximum endpoint visibility

Enables Custom Solutions to Everyday Problems

With the largest installed base of fixed readers across a diverse range of applications, Impinj Speedway readers deliver market-leading performance, quality, flexibility and reliability for companies who use RAIN RFID to increase sales, reduce costs, and improve efficiency.

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R420

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R220

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R120

Impinj Speedway Benefits

Versatile and Customizable
Provides low-cost opportunity to create a large, contiguous read zone with many antennas connected to a single reader

Maximum Performance 24/7
Maintain high read rates regardless of RF noise or interference leveraging patented AutoPilot capability that automatically optimizes performance

Powerful Application Development Tools
Suite of hardware and software tools enable custom solution development

Key Features

❯ **Senses and Adapts to Environment**
Impinj Autopilot technology automatically optimizes the reader's operation for its environment

❯ **Flexible, Design-Specific Solutions**
Handles high traffic volumes, RF-challenging environments and a wide variety of RAIN RFID-tagged products

❯ **Platform Ready**
Leverage Impinj ItemSense software for large-scale data aggregation and device management

Use Cases

Inventory Management
Ensure supplies are always in stock, get accurate information about the availability and consumption of materials, and manage inventory with lower cost through efficient utilization and expiration management

Asset Tracking
Easily track returnable, reusable assets for reduced errors and increased efficiency

Authentication
Track and authenticate items through the supply chain
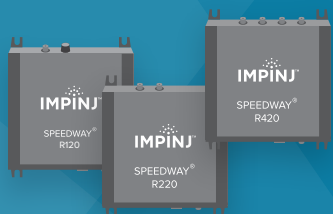
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Reader Family Overview

Impinj readers deliver item visibility with the performance, quality, and reliability necessary for robust solutions. Impinj Speedway readers have accessories that support custom solution development.

Product Features	Impinj Speedway 4-Port Fixed Reader	Impinj Speedway 2-Port Fixed Reader	Impinj Speedway 1-Port Fixed Reader
Operating Frequencies *Refer to country-specific regulations for channel allocation within the band*	FCC: 902-928 MHz EU1: 865-868 MHz EU2: 915-921 MHz GX1: 902-928 MHz GX2: 902-925 MHz GX3: 920-926 MHz JP2: 916-921 MHz	FCC: 902-928 MHz EU1: 865-868 MHz GX1: 902-928 MHz GX2: 902-925 MHz	FCC: 902-928 MHz EU1: 865-868 MHz GX2: 902-925 MHz
Transmit Power (max conducted) *Refer to regulations for country-specific limitations*	FCC, GX1, GX2, GX3: 32.5 dBm AC/31.5 dBm PoE EU1: 31.5 dBm AC/30.0 dBm PoE EU2: 33.0 dBm AC/33.0 dBm PoE+ JP2: 30.0 dBm AC/30.0 dBm PoE	FCC, GX1, GX2: 32.5 dBm AC/31.5 dBm PoE EU1: 31.5 dBm AC/30.0 dBm PoE	FCC, GX2 with antenna hub: 32.5 dBm AC/31.5 dBm PoE EU1 with antenna hub: 31.5 dBm AC/30.0 dBm PoE FCC, GX2 without antenna hub: 30.0 dBm AC/30.0 dBm PoE EU1 without antenna hub: 30.0 dBm AC/30.0 dBm PoE
Antenna Ports (external)	4	2	1 (enabled)
Maximum Read Rate	1100 tags/s	200 tags/s	200 tags/s
Reduced Power Option (FCC region only)	YES	NO	NO
Gen2 Reader Modes	10	5	5
Antenna Hub Support	YES	NO	YES
Read Zones (max)	32 (with 4 hubs)	2	8 (with Port Pack)
Power Sources	AC-DC power supply: all models IEEE 802.3af PoE: all models except EU2 model IEEE 802.3at PoE+: EU2 model	AC-DC power supply: all models IEEE 802.3af PoE: all models	
Regulatory Certifications	For a list of supported regions and geographies please go to: www.impinj.com/supported_regions		
Air Interface Protocol	RAIN RFID: EPCglobal UHF RFID Class 1 Gen2v2 / ISO 18000-63		

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.

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