

IMPINJ®

FIXED READERS

Impinj R700 RAIN RFID Reader

Industry-leading performance, enterprise-grade reliability—the all-new Impinj® R700 RAIN RFID reader simplifies IoT solution development and RAIN deployments

Enterprise-Grade RAIN RFID Reader for Next-Gen IoT Solutions

The Impinj R700 reader is designed to support global enterprise RAIN deployments that need high performance and reliability. The Impinj R700 delivers the best receive sensitivity, fastest network connectivity, and powerful edge processing. IoT developers can easily build and deploy customized solutions with developer-friendly APIs, versatile, standardized connections, and support for up to 32 antennas.

The Impinj R700 reader builds on the heritage of the Impinj Speedway® reader family with an all-new internal and external design and increased capacity for on-reader applications. With fast, accurate reading of small, global RAIN RFID tags, the Impinj R700 advances the performance of use cases including threshold transitions and inventory.

Why Use Impinj R700

Deliver Industry-Leading Performance

Best receive sensitivity, powerful edge processing, and high-speed network connectivity enable fast, accurate reading of small, global RAIN RFID tags

Simplify IOT Solution Development

Easily build customized solutions with versatile, standardized connections, and intuitive APIs to connect with enterprise IoT business applications

Meet Demands of Next-Generation RAIN Solutions

Future-proof investments in RAIN solutions with performance, reliability, and deployment simplicity for enterprise-grade solutions

Key Features

➤ Enterprise-Grade Reliability and Security

Secure and field-upgradable; built on a heritage of best-in-class reliability

➤ Designed for Enterprise-Grade Deployments

High-speed processing power for the high-volume of RAIN data in enterprise applications

➤ Connects Like Other IoT Devices

Easily connect to IoT applications with RESTful API and support for popular IoT data transfer technologies

➤ Build Powerful, Custom Solutions

Embed powerful, custom on-reader applications and use versatile, standardized connections

➤ Fast Connection to IoT Applications

Gigabit Ethernet connectivity prevents data bottlenecks and lowers latency

➤ Built to Withstand Tough Environments

Ruggedized cast aluminum enclosure withstands shock; ISO IP45 water-resistant case available



Impinj Reader Family Overview

Impinj readers deliver item visibility with the performance, quality, and reliability necessary for robust solutions. Impinj fixed readers have accessories that support custom solution development. Our handheld readers provide high performance coupled with full-featured mobile computing and intuitive operation.

Impinj Reader Portfolio

				
	R700	R420	R220	R120
SPECIFICATIONS	Antenna ports	4	4	2
	Maximum read zones	32	32	2
	Reads per-second	1,100	1,100	200
	Maximum transmit power (dBm)	33	32.5	32.5
	Receive sensitivity (dBm)	-92	-84	-84
	Processor speed (GHz)	1 (Dual-core)	0.4 (Single core)	0.4 (Single core)
	Random-access memory (RAM) (MB)	1,024	256	256
	Custom-application partition (CAP) size (MB)	128	32	32
FEATURES	Impinj Autopilot—optimizes reader operation and performance	✓	✓	✓
	Support for USB peripherals	3	1	1
	General-purpose input/output (GPIO) block	Internal	Accessory	Accessory
	Gigabit Ethernet network connectivity	✓		
	Power over Ethernet (PoE) support	PoE/PoE+	PoE	PoE

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?

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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