Impinj Monza R6 Series RAIN RFID Tag Chips

Meets industry demands by delivering high read performance and data integrity

Impinj Monza R6 RAIN RFID tag chips provide reliable performance in nearly any RAIN RFID application, from retail to healthcare, hospitality to supply chain and logistics. These chips introduced three patented features to improve performance and tag reliability: AutoTune adaptive RF tuning, Integra memory diagnostics, and Enduro bonding pads.

Four chips provide endless possibility

Impinj Monza R6 series chips are available in four different versions to support applications from inventory management to airline baggage tracking. Create innovative ways of interacting with consumers using Impinj Monza R6 series chips.

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Impinj Monza R6 chips enhance customer interaction

The Impinj MR6 chip helps you create a differentiated shopping experience. Retailers are finding innovative ways of delighting shoppers using Impinj MR6. Start tagging items for inventory management and then enable smart fitting rooms, automated checkout, and interactive product displays.

Impinj Monza R6-P protects your brand, inventory, and customers

With added user memory, password protection ,and range reduction capabilities, Impinj MR6-P tag chips enable loss prevention, brand protection, and enhanced privacy for retailers, brands, and consumers. Includes flexible memory options for 96 / 128-bit EPC and 32 / 64-bit user memory, plus serialized Tag ID.

Impinj Monza R6-A enhances privacy protection and environmental sustainability

Impinj MR6-A RAIN RFID tag chips provide industry-leading performance, include features that support environmentally-friendly "green" tags, and enhance privacy protection with range reduction mode and tag deactivation via "kill" capability.

Impinj Monza R6-B enables optimized baggage handling

The Impinj MR6-B is the first tag chip specifically engineered for airline baggage tracking, delivering the speed, reliability, and performance needed to keep baggage operations on schedule. It delivers excellent accuracy and reliability in challenging airport RF environments and at high speeds, with a design built to handle the wear and tear of normal baggage operations

Why use Impinj MR6 series tag chips

Impinj MR6 provide reliable performance around the world. These chips are chosen for diverse applications that need:

Trusted performance: field-proven with billions of chips deployed

Versatility: supports diverse use cases with standard memory requirements—everything from animal tagging to race timing

Performance-enhancing features: patented features AutoTune, Integra, and Enduro optimize performance and enhance reliability

Tag data protection options: limit access via short range capability and Access/Kill commands

Connect everything with high-performing tag chip features

AutoTune adaptive RF tuning
Automatically adjusts performance to optimize readability for environment and application

TagFocus read redundancy prevention
Unique algorithm prevents multiple reads of the same chip so that hard-to-read tags can be read more accurately within a complex population of tags

Enduro bonding pad design
Patented design delivers high-quality, robust tags for improved tag yield and reliability, and lower CO_2 emissions

FastID rapid reading
Reduce inventory time by simplifying the steps needed to identify a tag when using a TID-based numbering system

Integra memory diagnostics
Suite of diagnostics ensures consistently accurate data delivery

Impinj Monza R6 Tag Chip Series

Monza R6-A and Monza R6-B are in the end-of-life process.

		Monza R6	Monza R6-P	Monza R6-A	Monza R6-B
SPECIFICATIONS	Air interface protocol	RAIN RFID / ISO 18000-63 and EPCglobal Gen2v2 compliant			
	EPC memory	96 bits	96 / 128 bits	96 bits	96 bits
	User memory	None	64 / 32 bits	None	None
	Read sensitivity (dBm)	-22	-22	-22	-22
	Write sensitivity (dBm)	-17	-17	-17	-17
	Die size (μm)	464.1 x 400	464.1 x 442	464.1 x 442	464.1 x 442
FEATURES	Impinj AutoTune™ automatic RF tuning	Standard	Standard	Standard	Standard
	Impinj Integra™ memory diagnostics	Standard	Standard	Standard	Standard
	Impinj Enduro™ robust bonding construction	Copper plating	Copper plating	Copper plating	Copper plating
	Tag data protection features	None	Access/Kill Short-range mode	Access/Kill Short-range mode	Access/Kill Short-range mode
	Impinj TagFocus™ read redundancy prevention	✓	✓	✓	✓
	Impinj FastID™ high-speed reading	✓	✓	✓	✓

Impinj product performance is based on Impinj's modeling and test data, actual results may vary.

Ready to discuss how Impinj can help your business?

Contact us: www.impinj.com

Impinj (NASDAQ: PI) helps businesses and people analyze, optimize, and innovate by wirelessly connecting billions of everyday things—such as apparel, automobile parts, luggage, and shipments—to the Internet. The Impinj platform uses RAIN RFID to deliver timely data about these everyday things to business and consumer applications, enabling a boundless Internet of Things.

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