Impinj Monza 4 Series RAIN RFID Tag Chips

Specialty RAIN RFID tag chips

Impinj Monza 4 series are specialty RAIN RFID tag chips that provide application-specific features such as privacy, enhanced performance, and flexible memory that are optimized for use in manufacturing and supply chain industries.

Find the right fit for specialty applications

Impinj Monza 4 series chips are available in four different variants to meet the needs of complex use cases. Chips in this series provide options for large memory capacity, omnidirectional reading capability, and tag data protections.

Impinj Monza 4 Series RAIN RFID Tag Chips

Impinj Monza 4D features superior sensitivity with omnidirectional performance

Impinj M4D RAIN RFID tag chips enable small, low-cost omnidirectional tags with high read rates for applications requiring standard memory sizes. Ideal for challenging applications where large memory is not required, Impinj M4D tag chips offer superior performance, True3D antenna support, and a standard memory size. Two fully independent antenna ports enable true omnidirectional tags that readers can see from any angle.

Impinj Monza 4E enables storage of extended serial numbers

Impinj M4E RAIN RFID tag chips enable small, inexpensive tags with extended EPC memory and high read rates. Monitor longer serial numbers, such as mobile equipment identities, electronic components, industrial parts, and government assets with Impinj M4E's capability to support extended EPC memory up to 496 bits.

Impinj Monza 4i enables Industry 4.0 with smart manufacturing

Impinj M4i RAIN RFID tag chips enable data logging of item maintenance, component status & environmental conditions for improved production & smarter manufacturing. Ideal for component-level tagging in automotive production line manufacturing, Impinj M4i chips are built with an extended EPC memory to track long serial (such as VIN) numbers along with a large amount of user memory to chronicle the production process and components from raw material through final assembly.

Impinj Monza 4QT includes storage profiles for public and private data

Impinj M4QT RAIN RFID tag chips enable users to maintain a public and private data profile for confidential data storage and consumer privacy, coupled with large user memory. Assets requiring authentication, such as personnel IDs and pharmaceuticals, are more secure with Impinj M4QT tag chip's ability to store confidential data in a private

profile while providing less sensitive data in a public profile. Extended user memory enables a portable, private database that travels with the tag and protects data confidentiality providing consumer privacy.

Why use Impinj M4 series tag chips

Impinj M4 tag chips are deployed in RAIN RFID solutions around the world. Choose these tag chips if you need:

More memory: meet use case requirements with larger memory capacity and multiple configuration options

Omnidirectional reading: tagged items can be oriented in any direction in the read zone

Tag data protection options: create private data profiles with Impinj QT technology or limit access via short range capability and Access/Kill commands

Packaged tag options: embed RAIN RFID tags into electronic components or build ruggedized tag designs

Connect everything with high-performing tag chip features

FastID high-speed reading*

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

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

True3D antenna technology

Two fully independent antenna ports enable high-performance, omnidirectional tags

Impinj Monza R6 Tag Chip Series

		Monza 4D	Monza 4E	Monza 4i is in the end-of-life process Monza 4i	Monza 4QT
SPECIFICATIONS	Air interface protocol	RAIN RFID / ISO 18000-63 and EPCglobal Gen2v2 compliant			
	EPC memory	128 bits	496 bits	256 bits	128 bits
	User memory	32 bits	128 bits	480 bits	512 bits
	Read sensitivity (dBm)	-19.5	-19.5	-19.5	-19.5
	Write sensitivity (dBm)	-16.7	-16.7	-16.7	-16.7
	Die size (µm)	590 x 590	590 x 590	590 x 590	590 x 590
FEATURES	Impinj TagFocus™ read redundancy prevention	✓	✓	✓	✓
	Impinj FastID™ high-speed reading	✓		✓	✓
	Impinj True3D™ omni-directional reads	✓	✓	✓	✓
	Tag data protection features	Access/Kill	Access/Kill	Access/Kill	QT technology Access/Kill Short-range mode
	Packaged parts		✓		✓

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

* Supported by Impinj M4D, Impinj M4i, and Impinj M4QT

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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