Impinj M700 Series RAIN RFID Tag Chips

Impinj M700 RAIN RFID tag chips provide high performance, fast inventory capability, and advanced features for next-generation, universal RAIN RFID tags.

Impinj M730, and M750 tag chips

Bring IoT to retail with high-performing tag chips

The Impinj M700 series is a premium family that includes Impinj M730 and M750 tag chips which can be attached to or embedded in nearly any item, globally, to enable solutions for high-speed inventory counting, loss prevention with frictionless self-checkout, and embedded tagging with seamless product returns. The Impinj M730 chip has 128-bit EPC memory. The Impinj M750 chip has 96-bit EPC memory and 32-bit user memory.

Why use Impinj M700 series chips

Impinj M700 chips bring game-changing advancements to RAIN RFID. Ideal for large-scale, global deployments, Impinj M700 chips deliver high-performance, quality, and reliability.

Read items faster, from farther away:
improved tag readability enables items to be read at longer distances, and read faster to reduce inventory time and improve productivity

Support next-generation RAIN solutions:
new capabilities enable innovative solutions for consumer privacy, loss prevention, and embedded tagging

One universal tag for all items:
allows for small, universal tags that can operate worldwide, simplifying the tag supply chain for a global enterprise

RAIN RFID Tag Chips for Item-Level Visibility

Impinj tag chips attach to an item, providing a unique identifier and enabling readers to determine the item's identity, location, and authenticity. The Impinj family of tag chips deliver high performance, flexible memory options, and extended features to RAIN RFID tags.

Connect every_thing with high-performing tag chip features

Tag data protection
Protected Mode makes a RAIN tag invisible to RAIN readers. The tag can be returned to normal operation, and made visible to RAIN readers, using a secure PIN

Enduro IC bonding technology
Patented bonding pad design optimizes eco-friendly tag performance and delivers high-quality tags for improved tag yield, reliability, and durability

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

Enhanced AutoTune adaptive RF tuning
Optimize performance to the tag's environment for improved readability across a range of materials, tag form factors, and operating frequencies

Enhanced Integra memory diagnostics
Suite of diagnostics verify tag chip health and validate data encoding to consistently deliver more accurate data and reliable tags

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

Impinj Tag Chips		 M750	 M730	 MR6	 MR6-P
USE	Typical use	Inventory Management, Asset Management, Automated Checkout, Loss Prevention, Shipment Verification, Supply Chain Automation			
SPECS	Air interface protocol	RAIN RFID / ISO 18000-63 and EPCglobal Gen2v2 compliant			
	EPC memory	96 bits	128 bits	96 bits	96 / 128 bits
	User memory	32 bits	None	None	64 / 32 bits
	Read sensitivity (dBm)	-24		-22	
	Write sensitivity (dBm)	-21		-17	
	Die size (µm)	397 x 287		464 x 400	464 x 442
FEATURES	Impinj AutoTune™ automatic RF tuning	Enhanced		Standard	
	Impinj Integra™ memory diagnostics	Enhanced		Standard	
	Impinj Enduro™ robust bonding construction	Gold flashed		Copper plating	
	Tag data protection features	Impinj Protected Mode, Access/Kill, Short-range Mode		None	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. 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) 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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