IMPINJ®
Endpoint ICs
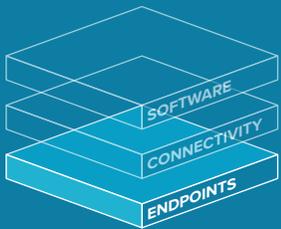
Impinj M730 & M750 RAIN RFID Tag Chips

Impinj M730 and M750 RAIN RFID tag chips provide high performance, fast inventory capability, and advanced features for next-generation, universal RAIN RFID tags.

Bring IoT to Retail with High-Performing Tag Chips

Part of the Impinj M700 family of premium endpoint ICs, both the Impinj M730 and M750 tag chips 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.

SOFTWARE
CONNECTIVITY
ENDPOINTS

The Impinj Platform includes Endpoints

Why Use Impinj M730/M750

Read Items Faster, from Farther Away
Improves tag readability so items can be read at longer distances, and read faster to reduce inventory time and improve productivity

Support for 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 global enterprises

Key Features

❯ Enhanced AutoTune Adaptive RF Tuning
Optimizes 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

❯ New Tag Data Protection Mode
Protected Mode enables loss prevention while protecting consumer privacy by making 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
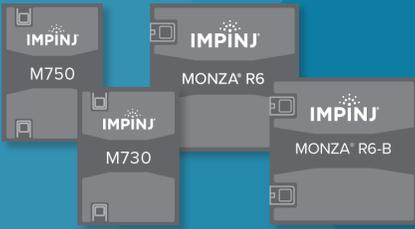
❯ Enduro IC Bonding Technology
Patented low-profile bonding pad design optimizes eco-friendly tag performance and delivers high-quality tags for improved tag yield, reliability, and durability

❯ 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

❯ FastID High-Speed Reading
Reduce inventory time by simplifying the steps needed to identify a tag when using a TID-based numbering system

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Impinj Endpoint Product Overview

With over 30 billion items connected, Impinj tag chips are the industry standard for RAIN RFID solutions for retail, air transportation, healthcare and more. Impinj endpoint ICs connect everyday items to the Internet and provide unique capabilities optimized for specific application needs.

Impinj Universal Tag Chips

		Impinj M750	Impinj M730	Impinj MR6-P	Impinj MR6-A	Impinj MR6
USE	Typical use	Impinj universal tag chips support a broad set of applications to enable accurate inventory counting and gain reliable item detection during transitions. Select a universal tag chip to simplify a global tag inventory, support efficient and consistent inlay manufacturing, and deploy scalable high-performance source tagging programs.				
SPECS	EPC memory (bits)	96	128	96 / 128	96	96
SPECS	User memory (bits)	32	None	64 / 32	None	None
SPECS	Read sensitivity (dBm)	-24	-24	-22	-22	-22
SPECS	Write sensitivity (dBm)	-21	-21	-17	-17	-17
FEATURES	AutoTune™ automatic RF tuning	Enhanced	Enhanced	Standard	Standard	Standard
FEATURES	Integra™ memory diagnostics	Enhanced	Enhanced	Standard	Standard	Standard
FEATURES	Enduro™ robust bonding construction	Gold flashed	Gold flashed	Copper plating	Copper plating	Copper plating
FEATURES	Tag data protection features	Protected Mode Access/Kill Short-range	Protected Mode Access/Kill Short-range	Access/Kill Short-range	Access/Kill Short-range	None
FEATURES	TagFocus™ read redundancy prevention	✓	✓	✓	✓	✓
FEATURES	FastID™ high-speed reading	✓	✓	✓	✓	✓
	Part number	IPJ-M750A-A00	IPJ-M730A-A00	IPJ-W1710-K00	IPJ-W1730-K00	IPJ-W1700-K00

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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