



Impinj M800 Series RAIN RFID Tag Chips



Impinj M830 and M850 tag chips deliver leading-edge performance, data and privacy protection, and advanced features that expand IoT connectivity to a wide range of options.

Delivering next-generation performance and protection

The Impinj M800 series, with leading-edge performance and support for Impinj Gen2X features, delivers superior readability, reduces solution cost, and provides data and privacy protection for next-generation, universal RAIN tags. The Impinj M800 series offers:

- Extended tag read range and inventory speed.
- Improved readability for reliable reading of small tags in large tag populations, on densely packed items, and on traditionally hard-to-read items such as those containing liquids and metals.
- Enhanced tag reliability and manufacturability, featuring Impinj Enduro V2.
- Advanced features for managing tagged items, including Impinj AutoTune V3.



Impinj M830 and M850 tag chips

Advanced item connectivity for enterprise IoT deployments

Impinj M830 and M850 RAIN RFID tag chips feature low power requirements and unmatched readability that allow businesses to use a single, small tag across a broad range of items — apparel, electronics, sporting goods, home goods, and other general merchandise — within their global operations. Tags built with the Impinj M800 series enhance the performance of RAIN RFID deployments from retail to supply chain and logistics and beyond. Drop-in compatible with Impinj M700 series antenna designs, the Impinj M800 series enables quick time-to-market.

Impinj Gen2X tag chip features improve RAIN RFID solutions

Impinj Gen2X Performance

Improves reader sensitivity, tag read range, tag decluttering, and tag filtering. Reduces reader inventory time, tag communication errors, and solution cost.

Impinj AutoTune V3 automatic RF tuning



Improves tag sensitivity for enhanced readability across a range of materials, tag form factors, and operating frequencies.

Impinj Gen2X Protection

Protects consumer privacy, inhibits fraudulent returns, speeds EPC-to-TID verification, validates tag data encoding, and protects tag data integrity.

Impinj Enduro V2 bonding technology

Strengthens chip-to-antenna connection, enhancing tag reliability and manufacturability.

Impinj M800 series tag chips		 M830	 M850
SPECS	Air Interface Protocol	RAIN RFID / ISO 18000-63 and EPCglobal Gen2v2 compliant Supports Impinj Gen2X, an enhancement to the RAIN radio standard	
	EPC memory	128	96
	User memory	0	32
	Read sensitivity (dBm)	-25.5 Up to 2 dB improvement with Impinj Gen2X Performance	
FEATURES	GS1 EPCglobal Gen2 Untraceable / Short-range	✓	✓
	Access/Kill password	Shared	
	Impinj AutoTune automatic RF tuning	V3	
	Impinj Enduro robust bonding construction	V2	
	Omnidirectional reading	Impinj Core3D Antenna™	
IMPINJ GEN2X	Impinj Gen2X Performance	✓	✓
	Impinj FastID high speed reading ¹	✓	✓
	Impinj Protected Mode tag data protection ¹	✓	✓
	Impinj Integra V2 memory diagnostics ¹	✓	✓

1: FastID, Protected Mode, and Integra are included in Impinj Gen2X Protection

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.