



Monza[®] 6 Tag Chips

High Performance. Data Integrity. Value.

RAIN RFID tags built with Impinj Monza 6 chips provide unmatched performance and data integrity for large-scale Item Intelligence™ applications that require high-volume, high-performance, serial-numbered tags. They are ideal for item-level tagging for retail, healthcare, ticketing and other applications. All Monza 6 tag chips include revolutionary technologies including automatic performance adjustments, self-diagnostics and durable construction methods that improve tag quality and reliability while decreasing costs associated with tagging.



Monza R6

Optimized for Retail Environments and Advanced Shopping Experiences



Monza R6-P

Featuring Privacy, Brand Protection and Loss-Prevention Functionality



Monza S6-C

Secure, One-Way Counter Capability for Ticketing and Consumables Metering



FEATURES



Integra™ technology

a suite of diagnostics which ensures consistently accurate data delivery that businesses can depend on



Chip-based brand protection

authenticate items using open standards-based cryptographic engines



AutoTune™ technology

automatically adjust tag performance for best possible readability



Enhanced privacy

limit the read distance to within a few inches on sold items



Enduro™ technology

delivers an improved method for constructing high quality, robust tags



Fail-safe, one-way counter

includes simple methods to load and deduct usage counts (e.g. points, rides, dosages)



Chip-based loss prevention

quickly identify sold/not sold items without accessing a network or database



Range-reduction switch

includes ability to limit read distance to ensure proximity during validation

Monza 6 Tag Chip Family Overview

Product Details	MONZA R6	MONZA R6-P	MONZA S6-C
EPC Memory (bits)	96 bits	128 / 96 bits	96 bits
User Memory (bits)	-	32 / 64 bits	32 bits
Read Sensitivity	-22.1 dBm	-22.1 dBm	-22.1 dBm
Write Sensitivity	-18.8 dBm	-17.3 dBm	-17.3 dBm
Die Size	465µm x 400µm	465µm x 442µm	465µm x 442µm
Memory Write Time	1.6ms for 32 bit write; up to 9,500* tags/min with ItemEncode™ software		
AutoTune™ Technology	✓	✓	✓
Integra™ Technology	✓	✓	✓
Enduro™ Technology	✓	✓	✓
TagFocus™ Mode	✓	✓	✓
FastID™ Mode	✓	✓	✓
Monza Self-Serialization	✓	✓	✓
Enhanced Privacy	-	✓	✓
Chip-based Loss Prevention	-	✓	-
Chip-based Brand Protection	-	✓	✓
Access Password	-	✓	✓
Kill Password	-	✓	✓
Secure Counting Capability	-	-	✓
Range-Reduction Switch	-	-	✓
Form	Wafer		
Processing Flow	Enduro™ pads, ~109 µm, diced		
Air Interface Protocol	RAIN RFID / ISO 18000-63 and EPCglobal Gen2v2 Compliant		
Part Number	IPJ-W1700-K00	IPJ-W1710-K00	IPJ-W1720-K00

* Actual speeds are limited by encoding machine's mechanical and RF isolation capability.