IMPINJ®
MONZA®
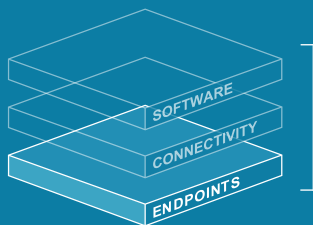
Monza X Dura RAIN RFID Endpoint ICs

Impinj Monza X Dura tag chips bring intelligent, embedded RAIN RFID to electronic devices for data logging, device configuration and upgrades, and IoT sensor applications.

A Conduit Between Devices and the Outside World

Embedded directly into an device's circuit board, Monza X Dura tag chips link to the device's processor via standard I2C bus, enabling the processor or a RAIN reader to read and write to chip memory even when the device is powered off.
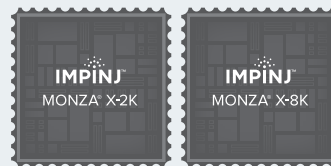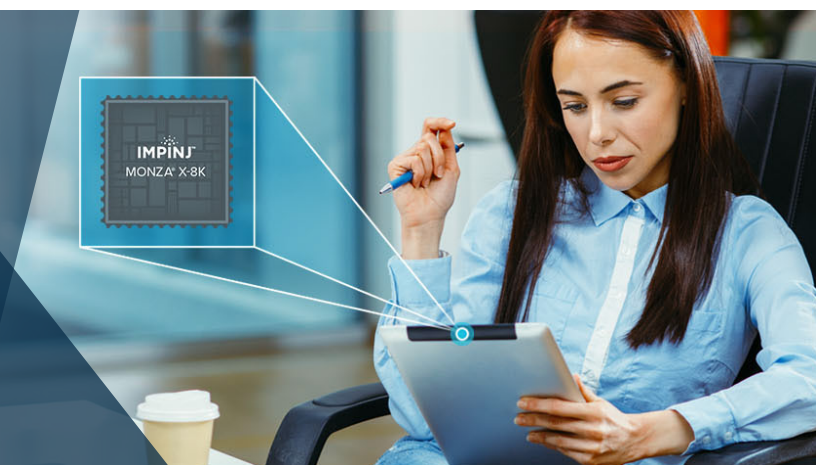
The Impinj Platform includes Endpoints

SOFTWARE
CONNECTIVITY
ENDPOINTS

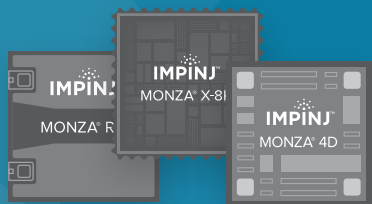## Monza X Dura Benefits

Multimode Communication Device
Communicate with chip memory using RAIN RFID readers or standard I2C interface

Extended User Memory
2 Kb and 8 Kb user memory options, accessible through RF and I2C interface

Secure Information
With QT memory technology, a private data profile enables confidential data storage

Key Features

> **Battery-Assisted Mode**
Boost read/write performance with battery assisted DC power

> **Write Wakeup Mode**
Features passive trigger to wake device from low power/standby state

> **Two Independent Antenna Ports**
Enables multiple configurations for far field and near field applications

Use Cases

Passive Device Management
Upgrade, configure, or register a device without powering it on at any point in the supply chain

Cold Chain Tracking
Wirelessly retrieve logged data to analyze events like spoilage, leaks, temperature changes, and breakage in transit

Intelligent Fleet Management
Enable end-to-end fleet management, fuel efficiency tracking, inspections, maintenance and data logging

IMPINJ™

Monza Family Overview

With billions of tag chips sold, Impinj Monza endpoint ICs are the industry standard for RAIN RFID solutions for retail, healthcare and more. The Monza product family connects everyday items to the Internet and provides unique capabilities optimized for specific application needs.

Extended Features	Monza X-2K Dura	Monza X-8K Dura
Read sensitivity	19.1 dBm with single antenna port 26.1 dBm with DC input	
Write sensitivity	14.1 dBm with single antenna port 26.1 dBm with DC input	
User memory	2,176 bits	8,192 bits
EPC memory	128 bits	
TID memory	96 bits	
QT® memory security	✔	✔
True3D™ dual antenna technology	✔	✔
FastID™ high-speed read capability	✔	✔
Short-range mode	✔	✔
I2C interface	✔	✔
Dimensions	1.6 x 1.6 x 0.35 mm	2.0 x 2.0 x 0.35 mm
Part number	IPJ-P6001-Q2AT	IPJ-P6005-X2AT

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.