



# Introducing Monza<sup>®</sup> X Chips

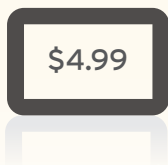


Impinj's Monza<sup>®</sup> X-2K Dura and Monza<sup>®</sup> X-8K Dura chips enable users to communicate wirelessly with the processor inside electronic devices using standard UHF Gen 2 RFID readers, unlocking many new benefits for consumer electronics manufacturers, retailers and end users. Embedded directly into the circuit board of an electronic device, Monza X chips link to the device's processor through a standard I2C bus, enabling the processor or a UHF reader to read and write the Monza X chip memory even when the electronic device is powered off. By enabling electronic devices to communicate with RFID readers, Monza X chips deliver a wide range of extended capabilities such as theft deterrence in the supply chain and wireless device configuration at point of sale and beyond.

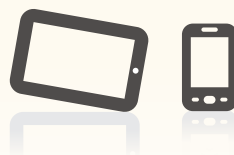
## Monza X chip features include:

- 2 kbits or 8 kbits user memory accessible through both RF to reader devices and I2C interface to microprocessors
- Impinj's QT<sup>®</sup> technology and one time programmable memory blocks for privacy and security of sensitive information stored in the chip
- Superior passive read/write sensitivity and the ability to boost sensitivity by supplying DC power
- Two fully independent antenna ports, enabling multiple configurations for far field and near field RFID applications
- Ability to wake up the microprocessor from low power states in response to RF write event, enabling power efficient electronic devices

## KEY APPLICATIONS



Wireless Displays  
and Sensors

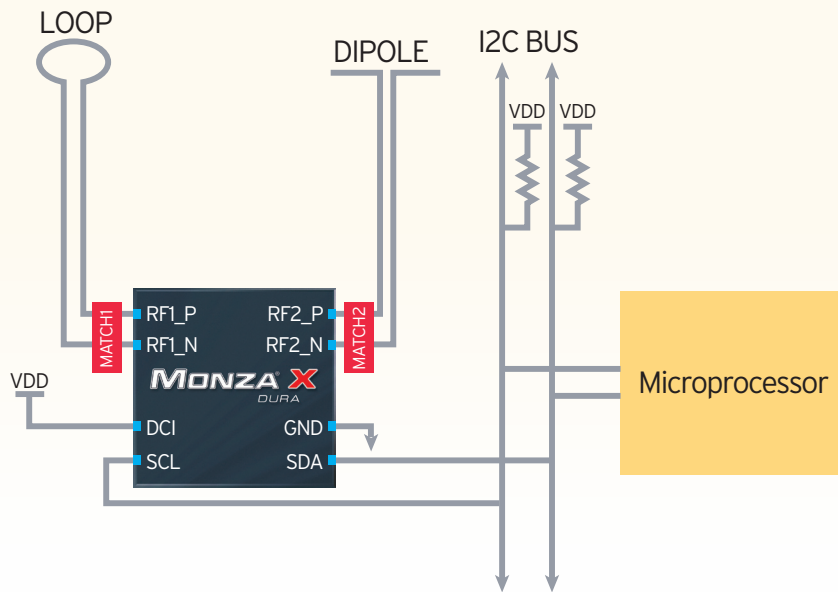


Product Activation/  
Theft Deterrent



Late Stage Upgrades  
and Configurations

## MONZA® X OVERVIEW



Description	Measure
Read Sensitivity	-17 dBm with single antenna port -24 dBm with DC Input
Write Sensitivity	-12 dBm with single antenna port -24 dBm with DC Input
EPC Memory	Up to 128 bits
Tag Identification (TID) Memory	48 bits
Microprocessor Interface	I2C
Air Interface Protocol	EPCglobal UHF Class 1 Gen 2 / ISO 18000-6C

### Monza X Dura Chip Models

Model	Part Number	User Memory	Package Size
Monza X-2K Dura	IPJ-P6001-Q2AT	2,176 bits	1.6 x 1.6 x 0.35 mm
Monza X-8K Dura	IPJ-P6005-X2AT	8,192 bits	2.0 x 2.0 x 0.35 mm

