

# UHF Gen 2 RFID Card

## UNPRECEDENTED READ RANGE OF UP TO 50 FEET

Maximize safety, security and convenience for customers, guests and employees — and heighten efficiency in your people identification and management applications — with Zebra's next-generation ultra-high-frequency (UHF) radio frequency identification (RFID) card. It's the world's first passive RFID card to provide a read range of up to 50 feet.



### Print and Encode Zebra's UHF Gen 2 RFID Cards with the Zebra® ZXP Series 7™ Printer

The ZXP Series 7 printer provides high-quality, dual-sided card printing. It offers exceptional value by lowering the cost of total ownership. The printer delivers accurate, efficient encoding capabilities, while printing sharp, vivid cards with precise color control.



### New Possibilities

Because this RFID card can be read from afar even through badge holders, handbags, pockets and backpacks, you can use it to streamline and ease congestion in your identification, access control and transaction processes. Plus, keep track of people to increase personal safety and facility security, capture guest / visitor data, and enhance the customer experience by enabling guests to easily share information with their social media contacts.

### Improved Technology

Containing Zebra's patented antenna design and Impinj's state-of-the-art Monza® 4QT chip, Zebra's passive RFID card provides advanced sensitivity for enhanced read rates and range. It offers full read / write capabilities, and you can use it worldwide with any EPC UHF operational band (860-960 MHz). Unique and sophisticated security features include:

- 48-bit unique ID feature that protects against card cloning and provides a card authentication method to uniquely identify every card.
- Memory configuration to protect privacy and hide sensitive information, while maintaining a high level of readability.
- Read range reduction feature protects users from unauthorized tracking by temporarily reducing the read range of the card to less than one foot.

### Secrets to Exceptional Performance

RFID cards contain an antenna that receives and transmits the RFID signal. Zebra's patented inlay antenna design, which is optimized for UHF card applications, gives the card greater read range and reliability than other RFID cards. Plus, the bowtie antenna shape enables badges to be worn horizontally or vertically without damaging the inlay with the lanyard hole punch.

An RFID card's integrated circuit stores and processes information. Zebra's UHF card contains Impinj's state-of-the-art Monza 4QT RFID chip, which provides advanced sensitivity for enhanced read rates, as well as increased security and reliability in demanding ID applications. The combination of the antenna and the Monza 4QT chip enables the unprecedented read range of 50 feet or more.

For more information about the UHF Gen 2 RFID Card, visit [www.zebra.com/uhfgen2](http://www.zebra.com/uhfgen2) or access our global contact directory at [www.zebra.com/contact](http://www.zebra.com/contact)

# UHF Gen 2 RFID Card Specifications

## CARD FEATURES

ISO/IEC-7810-2002 compliant  
Zebra's patented inlay antenna design  
Passive operation (no battery required)  
Ultra-high-frequency technology  
Multi-application card available with and without magnetic stripe

## PHYSICAL CARD CONSTRUCTIONS

Body	60% white PVC and 40% clear PET
Overlay	100% clear PVC
Nominal Height	2.125"/53.98 mm
Nominal Width	3.370"/85.60 mm
Nominal Thickness	30 mil ± 3 mil
Over-laminates	Receptor for dye-diffusion thermal transfer printing

## RFID SPECIFICATIONS

Protocol: EPCglobal® Gen 2 and ISO18000-6C  
Chip: Impinj Monza 4QT  
Worldwide operation in the UHF RFID frequency bands (860-960 MHz)  
Typical read range of up to 50 feet\*  
128 bits of EPC memory  
512 bits of USER memory  
96 bits of read-only TID memory

Specifications subject to change without notice.  
\*Read range may vary depending on environment and application.

## Ideal for These Applications

- Long-range identification
- Access control
- Customer loyalty
- Event management
- Social media experience
- Club and resort membership
- Asset tracking



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