

# PROMAG™ 13.56MHz RFID Multi-ISO Protocol Reader

## Introduction:

The **MP101A** is a RFID Module for all popular 13.56-MHz RFID/contactless standard protocols. The **MP101A** supports and compatibles with all major global secured baseband ISO standards including ISO14443 Type A, Type B, and Smartlabel ISO15693.

The **MP101A** is well suited for mobile devices due to its low power consumption and low operating voltage from 5V. The on-chip 3.3V regulators are provided to stabilize the chip's power, and simultaneously supply the power to the external companion microcontroller up to 120mA.

The **MP101A** is ideal for access control, as well as Automatic Fare Collection (AFC), ticketing, vending and mobile solutions

## Applications:

- Pre-payment, Ticketing
- Prepaid parking / meal coupon
- Multi-application: Tracking, Retail, Customer, Loyalty, Leisure, Gambling

## Ordering information:

- **MP101AR-00**----RS232 Interface
- **MP101AU-00**----USB Virtual COM Interface
- **MP101AH-00**----USB HID Interface

## Features:

- Enhanced anti-collision algorithm for multi-card handling
- Full 3DES/AES crypto methods
- USB and RS232 Interface, 19200 N,8,1
- T=CL ISO7816 interface supported
- Full access to data of contactless memory, high security and microcontroller-based cards
- Card TYPE
  - ISO 14443A
    - MIFARE™ Standard, MIFARE 4k, MIFARE Ultralight, MIFARE Ultralight C, MIFARE DESFire®, MIFARE DESFire EV1,
  - ISO 14443B
    - Smartcard ISO14443B, SRI4K, SRI512
  - ISO 15693
    - SIC5600, ICODE-SLI, ICODE-SLI-L, ICODE-SLIS
- Read payware and paypass and E-passport
- ISO7816 contact smart card
- NFC TAG 1~4 supportive
- ISO18092 Felica READ UID

※Specification is subject to change without notice.



We welcome OEM inquiries  
 ♦ Custom design manufacturing is available  
 ♦ Custom device programming is available  
 ♦ Call factory for other configuration

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## Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- . Reorient or relocate the receiving antenna.
- . Increase the separation between the equipment and receiver.
- . Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- . Consult the dealer or an experienced radio/TV technician for help.

**FCC Caution:** To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

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