



NXP® MIFARE® Hospitality

Next-Gen Guest Experiences for Secure Access and Mobile Interactions

Offering enhanced security paired with a seamless guest interaction, the MIFARE Hospitality contactless IC is tailored for the hospitality industry. Integrated in RFID key cards, it allows hotel owners and hotel brands a cost-efficient transition from legacy technologies while also adding mobile experiences.

KEY FEATURES

- ▶ Fully ISO/IEC 14443 A 3 compliant
- ▶ NFC Forum Type 2 Tag compliant
- ▶ Protected data access via 3DES authentication
- ▶ Configurable EEPROM user memory:
 - Up to 96-byte plain user memory for guest interaction
 - Up to 96-byte protected user memory for secure room access
- ▶ Unique 7-byte serial number
- ▶ 16-bit counter
- ▶ Anti-collision support
- ▶ Command and memory compatibility through reuse of MIFARE Ultralight® C components
- ▶ 106 kbit/s communication speed
- ▶ Number of single write operations: 10,000

TARGET APPLICATIONS

- ▶ Hospitality:
 - Basic guest card supporting secure access and mobile user interactions for Wi-Fi pairing, customized guest information, and automated sign-ups to loyalty programs.

KEY BENEFITS

- ▶ Increased convenience, security, and reliability for end users compared to magnetic stripe and legacy RFID key card technologies
- ▶ Backward compatibility to existing infrastructures based on NXP's MIFARE Ultralight C IC
- ▶ Easy system enhancement in hospitality applications
- ▶ Reduced cash handling (i.e. hotel services)
- ▶ Lower maintenance costs for the infrastructure
- ▶ Greater fraud prevention



BEYOND SECURITY

NXP's contactless MIFARE Hospitality gives guests secure access to hotel rooms and other hotel facilities, including spas, gyms, and parking garages, while also letting them take advantage of mobile interactions, such as Wi-Fi pairing, adding customized guest information, and easy sign-ups to the hotel's brand loyalty program for discounts and additional offers.

The MIFARE Hospitality IC gives hotel owners and brands a cost-effective way to transition away from legacy access technologies, such as mechanical keys, embossed cards, magnetic-stripe cards, and previous generations of RFID cards. At the same time, the MIFARE Hospitality IC makes it easy to meet the growing demand for mobile interactions and new guest experiences.

Hotel owners and brands can use MIFARE Hospitality to differentiate themselves from online travel agents, who book rooms on their platforms, and from the peer-to-peer hospitality segment, where homeowners rent private properties.

BRAND ACTIVATION AT YOUR FINGERTIPS

Through the pre-configured NFC function, the MIFARE Hospitality chip lets operators put a brand activation channel in the hands of each guest, by creating customized and meaningful guest experiences using RFID key cards in combination with mobile devices working with Android and iOS operating systems.

The enhanced security features of MIFARE Hospitality can contribute to a secure RFID lock system, for increased privacy and safety during each guest's stay.

The IC supports limited use cases and comes with secure authentication features (3DES) optimized for basic guest cards. The IC also leverages existing technologies for easier integration and migration to newer systems that let hotel brands keep pace with future requirements.

BROAD SUPPORT

Major suppliers to the hospitality industry, especially lock manufacturers, support NXP's MIFARE Hospitality IC, and NXP is collaborating with ecosystem partners to help facilitate the transition from legacy technologies to contactless RFID-based key cards.

MIFARE LEADERSHIP

Since introducing MIFARE® in 1994, NXP has shipped more than 12 billion MIFARE ICs, empowering 1.2 billion people with convenient access to transport, buildings, loyalty schemes, and other applications. Over 750 cities worldwide have installed MIFARE product-based systems, and a significant number of these contactless ICs are used in the hospitality industry.

FEATURES: MIFARE Hospitality

Feature	MIFARE Hospitality
Secure/Protected Memory	Up to 96-byte
NFC Memory	Up to 96-byte
Counter	1 × 16 bit
Access protection	3DES
Pre-configured NFC Forum Type 2 Tag	✓

ORDERING INFORMATION

Packaging	MIFARE Hospitality	
	Part Type	12NC
17 pF		
Sawn wafer 120 µm on FFC (AU-bumped)	MF9ICA2001DUD	9353 689 85005
MOA8 Module	MF9MOA2001DA8	9353 689 87118