



BioPoly™ Stone Generic Hotel Key Card



SKU:	RS-ULC-BPS-8654
Chip Type:	NXP® MIFARE Ultralight® C
Frequency:	HF 13.56 MHz
User Memory:	1152 bits
Protocol:	ISO/IEC 14443-A
EEPROM:	192 bytes
Read Range	Up to 10 cm
Industry:	Access Control, Events
Applications:	Public Transport, Hospitality, Electronic Toll Collection

The NXP® MIFARE Ultralight® C-based hotel key cards provide a secure and efficient contactless solution tailored for modern hospitality access management. Designed in the CR80 format and crafted from durable BioPoly™ Stone material, these cards combine environmental sustainability with robust physical performance. Fully compliant with ISO/IEC 14443-A standards, they support seamless integration with existing hotel locking systems while ensuring reliable operation in high-frequency usage scenarios. Advanced security mechanisms including 3DES authentication, a unique 7 byte serial number for anti-cloning protection, and programmable read-only memory locking functions deliver enhanced data integrity and resistance to unauthorized duplication.

These cards utilize the MIFARE Ultralight® C IC (MF0ICU2), which is optimized for limited-use applications such as hotel access control and loyalty programs. The chip supports two ticket formats—TFC.0 and TFC.1—with on-chip resonance capacitors of 50 pF and 16 pF respectively, enabling stable performance across different card form factors. Operating at 13.56 MHz with a communication speed of 106 kbit/s, the card enables fast and responsive transactions. Additional features such as intelligent anticollision capability, 32 bit one-time programmable (OTP) memory, and configurable block-locking mechanisms ensure secure multi-card operation and flexible memory management, making these cards a dependable choice for hotel and event access applications.

Physical Information	Material	BioPoly™ Stone
	Card Size	86×54×0.65 mm
	Operating Environment	-40°C~+100°C, 20%~90% RH
	Storage Environment	-25°C~+90°C, 20%~90% RH
	Care Tips	1. Avoid excessive bending 2. Keep away from water 3. Store in cool and dry place
	Cleaning Tips	1. Use a soft, dry cloth 2. Avoid harsh chemicals or abrasive cleaners 3. Remove stains immediately

Technical Information	Operating Frequency	13.56 MHz
	Communication Protocol	ISO/IEC 14443-A
	Chip Type	NXP® MIFARE Ultralight® C
	Read Range	Up to 10 cm
	UID Memory	7 bits
	EEPROM	192 bytes
	User Memory	1152 bits
	Reading Rate	106 kbit/s
	Anti-Cloning	Support
	Security Features	3DES Authentication

Packaging Information	Packing Format	Single pieces, piece by piece
	Packing Quantity	200 pcs/case, G.W. : 1.4 kg
	Packing Method	1000 pcs or 2000 pcs/carton
	Carton Dimension	1000 pcs: 23×20×17 cm (G.W.: 7 KG); 2000 pcs: 48×23×14 cm (G.W.: 14 KG).

● **Performance and Illustrations:** Graphs and visuals are for reference only; actual product performance may vary depending on usage and environment.
 ● **Storage and Handling Guidelines:** Follow standard ESD-safe storage and handling procedures to maintain product integrity and avoid damage.
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