RFIDBridge

RFID Card NXP® MIFARE Ultralight® AES

SKU:	RS-ULAES-PVC-8654
Chip Type:	NXP® MIFARE Ultralight® AES
Frequency:	HF 13.56 MHz
User Memory:	144 bytes
Protocol:	ISO/IEC 14443 -2/-3 A, NFC Forum Type 2
Compliance:	WEEE Directive
Industry:	Healthcare, retail, hospitality, events
Applications:	Access control, NFC, social engagement

The RFID Card features the NXP® MIFARE Ultralight® AES chip, operating at 13.56 MHz with 144 bytes of user memory. It supports ISO/IEC 14443-2/-3 A protocols and NFC Forum Type 2 standards, ensuring secure and efficient contactless communication.

Available in durable materials including PVC, PET, ABS, and eco-friendly wood, the card measures 85.6×54×0.88 mm and weighs about 5.8 grams. It offers various customization options such as thermal printing, embossing, holograms, and UV printing, ideal for secure access, event ticketing, and contactless applications.

Physical Information	Material	Black core PVC, White core PVC, White core PET(WEEE Directive√) White core ABS(WEEE Directive√), Wooden(WEEE Directive√)
	Size	85.6×54×0.88 mm(3.37"×2.125")
	Weight	About 5.8 g
	Surface Treatment	Glossy, matte or frosted
	Personalized Printing (NA for Wooden Cards)	Thermal transfer/dye sublimation
	Customization Options (NA for Wooden Cards)	Pre-Printing, Barcode Printing, Embossing, Holograms, Signature Panels, UV Printing, Hot Stamping, Punch Holes
	Operating Environment	0°C~+50°C, 20%~90% RH
	Storage Environment	+18°C~+28°C, 40%~60% RH
	Care Tips	1. Avoid excessive bending. 2. Keep away from water and collision. 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
	Protocol	ISO/IEC 14443 -2/-3 A, NFC Forum Type 2
	Chip Type	NXP® MIFARE Ultralight® AES
	User Memory	144 bytes
	Read Range	Up to 100 mm
	Security Features	Common Criteria certification: EAL3+(AVA_VAN.2) 3-pass mutual AES authentication based on a key length of 128-bit Configurable secure messaging communication mode - CMAC for message integrity protection according to NIST Special Publication 800-38B. Three independent 24-bit one-way counters with optional AES authentication protection of one counter Unique 7-byte IDentifier for each device Random ID(optional) for enhanced privacy. Compliant to ISO14443-3 32-bit user programmable OTP area Field programmable read-only locking function per page for the first 512 bit Read-only locking per block of 2 pages for the memory above 512 bit Pre-programmed ECC-based originality signature, offering the possibility for customizing and permanently locking AES-based originality key leveraging the AES authentication to check the NXP origin of the IC via NXP tools

Packaging Information	Packing Format	Single pieces, piece by piece
	Packing Method	Inner Packing: 200 pcs/case, G.W.: 1.26 kg Outer Packing: 5 cases/carton(1000 pcs) or 10 cases/carton(2000 pcs)
	Carton Dimension	1000 pcs: 23×20×17 cm 2000 pcs: 32.5×25×22.5 cm

● **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. ● **Product Updates and Revisions**: rfidbridge.com may change products, specs, or services at any time without prior notice. ● **General Use Disclaimer:** Products are for general-purpose use and not intended for safety-critical or life-support applications. ● **Legal Notice:** Information is believed accurate but may change rfidbridge.com s not liable for use-related issues or outcomes.

To learn more about our RFID solutions or request a customized product or integration, please visit our website at https://www.rfidbridge.com or reach out to our sales team directly at sales@rfidbridge.com.