



STMicroelectronics® ST25TA512B RFID Card



SKU:	RS-ST512B-CR80
Chip Type:	STMicroelectronics® ST25TA512B
Frequency:	HF 13.56 MHz
Protocol:	ISO/IEC 14443-A, NFC Forum Type 4
EEPROM:	64 bytes
UID Memory:	7 byte
Industry:	Events, Healthcare, Transportation, Business
Applications:	Access Control, NFC, ETC Toll Payment, Vehicle Tracking

The ST25TA512B CR80 RFID Card is a high-performance contactless smart card that complies with ISO/IEC 14443-A standards, designed for efficient and secure NFC communication. Powered by STMicroelectronics® ST25TA512B chip, it provides 512 bits of EEPROM memory, enabling reliable data storage for identification, authentication, and marketing applications. The chip supports NFC Forum Type 4 operation, ensuring smooth interaction with a wide range of NFC-enabled devices such as smartphones, readers, and terminals.

With its CR80 standard card size, this RFID card combines excellent durability and versatility for various use cases, including access control, event management, brand engagement, and smart product tagging. Its advanced data protection features, including password-based access and tamper resistance, ensure secure operation in both commercial and industrial environments. The ST25TA512B CR80 RFID Card is an ideal solution for organizations seeking a reliable and customizable NFC platform to connect physical products with digital experiences.

Physical Information	Material	Black Core PVC, White Core PVC, White Core PET (WEEE Directive✓), White Core ABS (WEEE Directive✓), Wooden (WEEE Directive✓)
	Card Size	85.6×54×0.88 mm
	Operating Environment	-20°C~+50°C, 20%~80% RH
	Storage Environment	+18°C~+28°C, 40%~60% RH
	Net 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
	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, NFC Forum Type 4
	Chip Type	STMicroelectronics® ST25TA512B
	Data Rate	106 kbps
	NDEF Data Structure	Support
	EEPROM	64 bytes
	UID Memory	7 byte
	Reads In A Single Command	Up to 256 bytes
	Writes In A Single Command	Up to 54 bytes
	Anti-Tearing	20 bit event counter
	Security Features	128 bit password protection

Packaging Information	Packing Format	Single pieces, piece by piece
	Packing Quantity	200 pcs/case, G.W. : 1.26 kg
	Packing Method	1000 pcs or 2000 pcs/carton
	Carton Dimension	1000 pcs: 23×20×17 cm (G.W.: 6.3 KG); 2000 pcs: 48×23×14 cm (G.W.: 12.6 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.
 ● **Product Updates and Revisions:** [rfidbridge.com](https://www.rfidbridge.com) may change products, specs, or services at any time without prior notice.
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